

Appendix C.3

On-Road Mobile Source Emission Inventory Documentation

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1.0 INTRODUCTION AND SCOPE

This fine particulate matter (PM_{2.5}) redesignation demonstration and maintenance plan covers the Hickory PM_{2.5} nonattainment area (Catawba County) and the Greensboro/Winston Salem/High Point PM_{2.5} nonattainment area (referred to as the Triad area and consisting of Davidson and Guilford Counties). On-road mobile sources produce nitrogen oxides (NO_x), particles less than 2.5 micrometers in diameter (PM_{2.5}), and sulfur dioxide (SO₂), along with a host of other pollutants. Emissions of these pollutants are estimated in the mobile source inventory required for the maintenance plan. Mobile sources comprise about 74% of the nitrogen oxides (NO_x) emissions in the Hickory and Triad PM_{2.5} nonattainment areas. The scope of this document covers only the procedures associated with on-road mobile sources.

2.0 OVERALL METHODOLOGY

2.1 EMISSION ESTIMATION APPROACH

Mobile source emissions are estimated by the methodologies suggested in the United States Environmental Protection Agency (USEPA) document Emissions Inventory Guidance for Implementation of Ozone and Particulate Matter National Ambient Air Quality Standards (NAAQS) and Regional Haze Regulations. The estimation of emissions from mobile sources involves multiplying an activity level by an emission factor.

For on-road or highway mobile sources, the USEPA mobile model MOBILE6.2 is used to generate emission factors which are multiplied by the vehicle miles traveled (VMT) to determine the estimated emissions.

The North Carolina Division of Air Quality (NCDAQ) is aware that the USEPA has a new mobile model, MOVES, on the horizon. This model is expected to become final in December 2009, at which time a grace period for use of MOVES as the new regulatory model will be announced. The NCDAQ commits to providing supplemental data to this submission when MOVES is released and approved for regulatory purposes.

3.0 QUALITY ASSURANCE MEASURES

The quality assurance (QA) for the highway mobile source category can be broken into three components: 1) input files, 2) MOBILE6.2 outputs/summaries, and 3) VMT interpolation. Each of these components are detailed in the paragraphs below.

After the speed and VMT information is acquired from the North Carolina Department of Transportation (NCDOT), the speed information is checked for reasonableness against previous sets of speeds for the areas. Once comfortable with the speeds, the NCDAQ enters the speed information into MOBILE6.2 input files. In addition to the speed information, the following inputs are included in the input files: pollutants, fuel Reid Vapor Pressure (RVP), 24-hour temperature and relative humidity profiles, barometric pressure, inspection and maintenance program, anti-tampering program, calendar year, evaluation month, and the vehicle mix per road type. All input files are printed and checked by hand against a “key” with the original source of the information. This QA step is always performed by a person other than the one who generated the files. If any discrepancies are found, they are marked on the hard copy and given back to the person who generated the input files for correction. Vehicle age distribution is a reference file in the MOBILE6.2 input file. This referenced file is checked against the original spreadsheet from which it is generated. Again, if any discrepancies are found, they are noted and returned to the person responsible for generating the input files.

Once the input files have passed through the QA procedure, MOBILE6.2 is run to generate emission factors. The emission factors are output into two forms from the MOBILE6.2 model. One set of outputs is formatted for importing into a spreadsheet. Once in the spreadsheet, data can easily be formatted into summary tables. An additional step in the spreadsheet is to multiply the emission factors by the daily VMT to get daily emissions. The next QA step is then performed by comparing the summary tables containing emission factors to the other MOBILE6.2 “descriptive” output file (also referred to as the “text output”).

A final QA step is to check the VMT used in the preceding step in the summary spreadsheets against the original source of the VMT. If VMT was not provided for the specific years requested, then the NCDAQ performs a linear interpolation to calculate VMT for the exact year needed. This linear interpolation is checked by a person other than the one who generated the file to ensure no errors were introduced.

4.0 DISCUSSION OF ON-ROAD MOBILE SOURCES

On-road mobile sources produce NO_x, PM_{2.5}, and SO₂, along with a host of other pollutants. Emissions of these three significant pollutants are estimated in the on-road mobile source inventory for the maintenance plan. The objective of the following section is to describe the source category and the emissions estimation procedures. This section also includes tables summarizing the estimated emissions for the projection years by county. Section 5 contains copies of the data used in the calculation of the estimated emissions, such as the MOBILE6.2 mobile model input and output files.

4.1 Introduction and Scope

On-road highway mobile sources are considered as those vehicles that travel on the roadways. On-road mobile sources are a major contributor to NO_x emissions in North Carolina and a less significant contributor to primary PM_{2.5} and SO₂. Emissions from motor vehicles occur throughout the day while the vehicle is in motion, at idle, parked, and during refueling. All of these emissions processes need to be estimated in order to properly reflect the total emissions from this source category.

On-road mobile source emissions comprise a small percentage of the total fine particulate matter emissions for all of North Carolina. Particulate emissions from motor vehicles only occur while the vehicle is moving or idling. These emissions are direct tailpipe (from both gas and diesel fuel vehicles), sulfate, tire wear, and brake wear. Only direct particulate emissions processes will be estimated in order to properly reflect the total fine particulate matter emissions from this source category.

The USEPA developed the MOBILE model to estimate emission factors based on information on the way vehicles are driven in a particular area. The latest version of the MOBILE model (MOBILE6.2) was used. This model was released by the USEPA in 2002 and differs significantly from previous versions of the model. Key inputs for MOBILE6.2 include information on the age of vehicles on the roads, the average speed of those vehicles, what types of roads those vehicles are traveling on, any control technologies in place in an area to reduce emissions for motor vehicles (e.g., emissions inspection programs), and ambient temperature.

MOBILE6.2 particulate outputs contain both primary particulates (soot from tailpipes, tire, and brake wear) and secondary (particulate precursors). Secondary particulate matter is formed by chemical reactions of gas-phase precursors in the atmosphere. The specific primary outputs are GASPM, i.e. particles directly emitted from all gasoline vehicles, OCARBON (organic carbon) and ECARBON (elemental carbon) from diesel engines, sulfate (SO₄) from both fuels, and tire and brake dust from all vehicles.

A very important component of the highway mobile emission estimation process is interagency consultation. The primary transportation partners involved in the Hickory and Triad redesignation interagency consultation process included: NCDOT, USEPA, Federal Highway Administration (FHWA), Greensboro MPO, High Point MPO, Piedmont Triad RPO, and Greater Hickory MPO. Specifically the NCDOT was consulted for input data such as speeds and VMT for the rural counties where the Hickory and Triad Travel Demand Models (TDMs), the urban travel demand models, did not cover. The rural areas include parts of Catawba and Davidson

Counties. Model inputs were summarized and sent to the partners on February 17, 2009. Also, an interagency consultation conference call was held February 26, 2009 to discuss the specific details of the MOBILE6.2 model inputs used to estimate the highway mobile source emissions, as well as issues concerning the setting of motor vehicle emissions budgets (MVEBs). In September 2009, the NCDAQ received new speeds and VMT from Catawba County that were run in anticipation of the Hickory area conformity determination. Since this PM_{2.5} Redesignation package had not been submitted at that point, the updated speeds were incorporated. Additionally at that time, the NCDAQ decided to make a change to a future year modeled. The final year of the plan was changed from 2020 to 2021, due to the timing of the submission. Speeds and VMT were requested and received for Davidson and Guilford County at that time and 2021 runs were performed.

4.2 MOBILE6.2 Input Assumptions

The MOBILE6.2 input files and output files are compiled in Section 5 – Data.

4.2.1 Speed Assumptions

Emissions from motor vehicles vary with the manner in which the vehicle is operated. Vehicles traveling at 65 miles per hour (mph) emit a very different mix of pollutants than the car that is idling at a stoplight.

The speeds for the urban areas covered by the MPOs were generated from each region's TDM. The modeled speeds for Guilford and Davidson were provided by Piedmont Authority for Regional Transportation (PART) for the desired maintenance plan years. Speeds for rural areas in Catawba and Davidson County were generated by NCDOT. Modeled speeds for urban areas of Catawba county were received for the years 2007, 2015, 2025, and 2035, and interpolated to the years needed. The MOBILE6.2 model was utilized to generate emission factors for both nonattainment areas. Tables 4.2.1-1 through 4.2.1-5 provide a summary of the speeds.

Table 4.2.1-1 Modeled Area Speeds for Davidson County (miles/hour)

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	68	68	68	68	67
Urban Freeway or Expressway	57	57	56	56	55
Urban Other Principal Arterial	39	39	38	38	39
Urban Minor Arterial	40	40	40	40	39
Urban Collector	42	41	42	42	41
Urban Local	46	45	45	45	44
Rural Interstate	69	68	68	68	68
Rural Other Principal Arterial	---	---	---	35	35
Rural Minor Arterial	51	51	51	51	50
Rural Major Collector	43	43	42	42	41
Rural Minor Collector	49	48	48	48	48
Rural Local	49	49	48	48	48

Table 4.2.1-2 Rural Area Speeds for Davidson County (miles/hour)

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	62	63	62	62	62
Urban Freeway or Expressway	56	56	56	56	56
Urban Other Principal Arterial	28	29	28	28	29
Urban Minor Arterial	32	32	32	32	32
Urban Collector	31	31	31	31	31
Urban Local	31	31	31	31	31
Rural Interstate	65	66	65	65	65
Rural Other Principal Arterial	45	46	45	45	45
Rural Minor Arterial	44	44	44	44	44
Rural Major Collector	43	43	43	43	43
Rural Minor Collector	42	42	42	42	42
Rural Local	42	42	42	42	42

Table 4.2.1-3 Modeled Area Speeds for Guilford County (miles/hour)

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	55	55	56	56	55
Urban Freeway or Expressway	51	51	50	50	51
Urban Other Principal Arterial	39	39	39	39	39
Urban Minor Arterial	37	37	38	38	38
Urban Collector	37	37	37	37	37
Urban Local	34	34	34	34	34
Rural Interstate	60	59	58	58	57
Rural Other Principal Arterial	47	48	50	50	49
Rural Minor Arterial	43	42	44	44	46
Rural Major Collector	46	46	46	46	45
Rural Minor Collector	47	47	47	47	46
Rural Local	43	42	46	46	45

Table 4.2.1-4 Modeled Area Speeds for Catawba County (miles/hour)

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	60	59	57	55	52
Urban Freeway or Expressway	46	46	45	45	44
Urban Other Principal Arterial	34	33	32	31	30
Urban Minor Arterial	34	33	32	31	30
Urban Collector	36	35	34	33	32
Urban Local	38	37	36	35	33
Rural Interstate	64	63	62	60	56
Rural Other Principal Arterial	59	59	58	58	57
Rural Minor Arterial	42	41	40	39	38
Rural Major Collector	43	43	42	42	41
Rural Minor Collector	37	36	35	35	34
Rural Local	42	42	41	41	40

Table 4.2.1-5 Rural Area Speeds for Catawba County (miles/hour)

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	63	63	63	63	63
Urban Freeway or Expressway	56	56	56	56	56
Urban Other Principal Arterial	29	29	29	29	29
Urban Minor Arterial	32	32	32	32	32
Urban Collector	31	31	31	31	31
Urban Local	31	31	31	31	31
Rural Interstate	63	63	63	63	63
Rural Other Principal Arterial	46	46	46	46	46
Rural Minor Arterial	44	44	44	44	44
Rural Major Collector	43	43	43	43	43
Rural Minor Collector	42	42	42	42	42
Rural Local	42	42	42	42	42

The MOBILE6.2 command “AVERAGE SPEED” was used to enter the daily speeds provided. This command requires two data elements: average speed and a roadway scenario. As with all average speed inputs to MOBILE6.2, average speeds may range from 2.5 to 65 miles per hour. The roadway scenario data element indicates the type of driving that the user intends for the average speed input to the model. The NCDAQ and the NCDOT followed the USEPA Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation (Office of Transportation, and Air Quality EPA420-R-04-013, August 2004) to match FHWA roadways to MOBILE6.2 driving cycles with the exception of local roads. For local roads, the NCDAQ used arterial/collector roadway scenario, in accordance to the above mentioned USEPA guidance found on page 30:

Note that the MOBILE6.2 driving cycle used for local roadways may differ from the range of activity on the roadways defined as local by USDOT Publication No. FHWA-ED-90-006 revised March 1989 (Highway Functional Classification) for both rural and urban local VMT. The local roadway driving cycle used in MOBILE6.2 likely constitutes only a small subset of urban local VMT as defined by FHWA. When in doubt, EPA recommends that any roadway VMT that does not clearly match the MOBILE6.2 driving cycle for local roadways be included with MOBILE6.2 arterial/collector VMT rather than included with MOBILE6.2 local roadway VMT.

Roadway scenarios per facility type are defined as follows:

Rural interstate	Non-Ramp
Rural principle arterial	Non-Ramp
Rural minor arterial	Arterial
Rural major collector	Arterial
Rural minor collector	Arterial
Rural local	Arterial
Urban interstate	Non-Ramp
Urban freeway	Non-Ramp
Urban principle arterial	Arterial
Urban minor arterial	Arterial
Urban collector	Arterial
Urban local	Arterial

Interstates are modeled as “Non-Ramp” instead of “Freeway” because both speed and VMT for ramps are included in the functional classification for the major facility it is connected to in the travel demand models. This is consistent with the August 2004 USEPA guidance mentioned above.

4.2.2 Vehicle Age Distribution

The vehicle age distribution comes from annual registration data for North Carolina from the NCDOT. For this analysis the age distribution was generated based on 2007 data, the latest available count data at the time. The NCDOT provided the data based on the number of vehicle types per year from 1974 through 2007. Vehicles greater than 25 years old were combined and included as the 25th model year. The vehicle count information is provided for nine vehicle types; light duty gas vehicles (LDGV), light duty diesel vehicles (LDDV), light duty gas trucks 1 (LDGT1), light duty gas trucks 2 (LDGT2), light duty diesel trucks 1 (LDDT1), light duty diesel trucks 2 (LDDT2), heavy duty gas vehicles (HDGV), heavy duty diesel vehicles (HDDV) and motorcycles (MC). LDDT1 and LDDT2 are combined and labeled as light duty diesel trucks (LDDT).

4.2.3 Vehicle Mix Assumptions

The vehicle mix refers to the percentage of different vehicle types on each of the 12 FHWA road types. These road types are listed above in the speed assumptions section. It is critical for

estimating on-road mobile emissions in an area to use data that accurately reflects the vehicles types traveling on each of these different road types.

In August 2004, the USEPA released the guidance document EPA420-R-04-013, Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation, which outlines how to convert the Highway Performance Monitoring System (HPMS) traffic count data to MOBILE6.2 vehicle mix data. Outlined below is the methodology used to convert the 13 HPMS vehicle types count data reported to FHWA and generate a state specific vehicle mix.

The North Carolina HPMS data used to generate the new statewide vehicle mix was based on 2007 data counts. This is the latest available statewide count information at the time of the modeling. Table 4.2.3-1 shows the percent of vehicles per vehicle type for each of the 12 road classes.

Table 4.2.3-1 2007 North Carolina HPMS Data

Functional Classification	MC	Cars	2A4T	Bus	2ASU	3ASU	4ASU	4AST	5AST	6AST	5AMT	6AMT	7AMT
Rural Principal Arterial - Interstate	0.0037	0.5900	0.1337	0.0110	0.0284	0.0075	0.0005	0.0192	0.1871	0.0078	0.0063	0.0027	0.0019
Rural Principal Arterial - Other	0.0082	0.6655	0.1866	0.0080	0.0344	0.0122	0.0011	0.0136	0.0647	0.0030	0.0017	0.0007	0.0004
Rural Minor Arterial	0.0065	0.6683	0.2010	0.0088	0.0397	0.0127	0.0011	0.0133	0.0460	0.0021	0.0002	0.0001	0.0003
Rural Major Collector	0.0061	0.7214	0.1967	0.0055	0.0323	0.0106	0.0010	0.0080	0.0174	0.0010	0.0000	0.0000	0.0001
Rural Minor Collector	0.0073	0.7077	0.2042	0.0067	0.0406	0.0109	0.0006	0.0086	0.0122	0.0008	0.0000	0.0000	0.0003
Rural Local System	0.0113	0.6512	0.2273	0.0190	0.0568	0.0139	0.0012	0.0100	0.0077	0.0012	0.0000	0.0000	0.0003
Urban Principal Arterial - Interstate	0.0050	0.6783	0.1406	0.0084	0.0275	0.0097	0.0004	0.0129	0.1097	0.0028	0.0030	0.0012	0.0005
Urban Principal Arterial - Other Freeways or Expressways	0.0049	0.7132	0.1620	0.0065	0.0281	0.0099	0.0010	0.0118	0.0590	0.0018	0.0011	0.0004	0.0003
Urban Principal Arterial - Other	0.0061	0.7435	0.1693	0.0054	0.0290	0.0091	0.0010	0.0088	0.0254	0.0017	0.0003	0.0001	0.0003
Urban Minor Arterial	0.0062	0.7807	0.1579	0.0056	0.0280	0.0069	0.0006	0.0060	0.0067	0.0012	0.0000	0.0000	0.0002
Urban Collector	0.0077	0.7830	0.1620	0.0048	0.0262	0.0088	0.0002	0.0043	0.0025	0.0004	0.0000	0.0000	0.0001
Urban Local System	0.0104	0.7244	0.1839	0.0230	0.0364	0.0090	0.0003	0.0051	0.0065	0.0009	0.0000	0.0001	0.0000

4.2.4 Disaggregating State Specific Information

Section 4.1.5 of Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation, illustrates how to map the HPMS statewide vehicle data to general MOBILE6.2 vehicle categories. This mapping is outlined below:

Table 4.2.4-1 Mapping of HPMS data to MOBILE6.2 Categories

HPMS Category	General Category
Motorcycle	Motorcycle (MC)
Passenger Car	Passenger Car (LDV)
Other 2-Axel, 4-Tire Vehicles	Light Truck (LDT)
Busses	Bus (HDB)
All Other Trucks: Single unit, 2-axel, 6-tire Single unit, 3-axel Single unit, 4 or more axel Single trailer, 4 or fewer axel Single trailer, 5-axel Single trailer, 6 or more axel Multi-trailer, 5 or fewer axel Multi-trailer, 6-axel Multi-trailer, 7 or more axel	Heavy Duty Truck (HDV)

The HPMS data in Table 4.2.3-1 was grouped into these five general categories for each road type. In order to expand the five general categories to the 16 vehicle types used in MOBILE6.2, the national average VMT fractions by each vehicle class were used. The 2007 fractions were used since the state specific data is from 2007. The national average data was obtained from Table 4.1.2 in Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation. An example for rural interstates is illustrated below:

From Table 4.2.3-1 above:

Passenger Cars	=	59.00%	5 axel Trailer	=	18.71%
Pickup Trucks	=	13.37%	6 axel Trailer	=	0.78%
Bus	=	1.10%	5 axel Multi Trailer	=	0.63%
2 axel Trucks	=	2.84%	6 axel Multi Trailer	=	0.27%
3 axel Trucks	=	0.75%	7 axel Multi Trailer	=	0.19%
4 axel Trucks	=	0.05%	Motorcycles	=	0.37%
4 axel Trailer	=	1.92%			

Therefore, the five general categories are:

Motorcycles	=	0.37%
Light Duty Vehicles	=	59.00%
Light Duty Trucks	=	13.37%
Heavy Duty Buses	=	1.10%
Heavy Duty Vehicles	=	26.16%

From Table 4.1.2 in Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation, the 2007 national average vehicle mix for light duty trucks, buses and heavy duty trucks are:

Light Duty Trucks			Heavy Duty Trucks		
LDT1	=	0.0822	HDV2B	=	0.0387
LDT2	=	0.2735	HDV3	=	0.0038
LDT3	=	0.0843	HDV4	=	0.0031
LDT4	=	0.0388	HDV5	=	0.0023
Total	=	0.4788	HDV6	=	0.0086
			HDV7	=	0.0102
			HDV8A	=	0.0111
			HDV8B	=	0.0396
			Total	=	.1174
Buses					
HDBS	=	0.0020			
HDBT	=	0.0009			
Total	=	0.0029			

Using the methodology described in Section 4.1.5 in Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation the new 2007 North Carolina statewide mix was developed. The basic formula for developing the mix is shown below,

$$\text{Vehicle Type} = (\text{2007 M6.2 fraction for vehicle}) \times \frac{(\text{2007 State total for group})}{(\text{2007 M6.2 total for subcategory})}$$

Table 4.2.4-2 displays the calculation for each vehicle type for the 2007 rural interstate vehicle mix.

Table 4.2.4-2 Calculation of New 2007 Statewide Rural Interstate Vehicle Mix

Vehicle Type		Calculation		New 2007 Mix
LDV	=	LDV	=	0.5900
MC	=	MC	=	0.0037
Light Duty Trucks				
LDT1	=	$0.0822 \times (0.1337/0.4788)$	=	0.0230
LDT2	=	$0.2735 \times (0.1337/0.4788)$	=	0.0764
LDT3	=	$0.0843 \times (0.1337/0.4788)$	=	0.0235
LDT4	=	$0.0388 \times (0.1337/0.4788)$	=	0.0108
Heavy Duty Vehicles				
HDV2B	=	$0.0387 \times (0.2616/0.1174)$	=	0.0862
HDV3	=	$0.0038 \times (0.2616/0.1174)$	=	0.0085
HDV4	=	$0.0031 \times (0.2616/0.1174)$	=	0.0069
HDV5	=	$0.0023 \times (0.2616/0.1174)$	=	0.0051
HDV6	=	$0.0086 \times (0.2616/0.1174)$	=	0.0192
HDV7	=	$0.0102 \times (0.2616/0.1174)$	=	0.0227
HDV8A	=	$0.0111 \times (0.2616/0.1174)$	=	0.0247
HDV8B	=	$0.0396 \times (0.2616/0.1174)$	=	0.0882
Buses				
HDBS	=	$0.0020 \times (0.0110/0.0029)$	=	0.0076
HDBT	=	$0.0009 \times (0.0110/0.0029)$	=	0.0034

2008, 2011, 2014, 2017 and 2021 Statewide Vehicle Mix

Once the 2007 vehicle mix was generated, the other years were created using the methodology described in Section 4.1.4 in Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation. This method grouped light duty vehicles, light duty trucks and motorcycles together and heavy duty buses, heavy duty trucks and heavy duty vehicles together. The combined percentages for these groupings are listed below.

Light Duty Vehicles = 72.74%

Heavy Duty Vehicles = 27.26%

The MOBILE6.2 vehicle mix fractions for the year being developed were obtained from Table 4.1.2 in Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation. The MOBILE6.2 vehicle fractions for 2008 are listed below.

Light Duty Vehicles			Heavy Duty Vehicles		
LDV	=	0.3807	HDV2B	=	0.0388
LDT1	=	0.0846	HDV3	=	0.0038
LDT2	=	0.2817	HDV4	=	0.0031
LDT3	=	0.0868	HDV5	=	0.0024
LDT4	=	0.0399	HDV6	=	0.0087
MC	=	0.0055	HDV7	=	0.0102
Total	=	0.8792	HDV8A	=	0.0111
			HDV8B	=	0.0397
			HDBS	=	0.0020
			HDBT	=	0.0009
			Total	=	.1207

The North Carolina 2008 vehicle mix was normalized to the MOBILE6.2 fractions using the following formula:

$$\text{Vehicle Type} = (\text{2008 M6 fraction for vehicle}) \times \frac{(\text{2007 State total for group})}{(\text{2008 M6 total for group})}$$

Table 4.2.4-3 below displays the calculations used to generate the 2008 North Carolina vehicle mix for rural interstate.

Table 4.2.4-3 Calculation of 2008 Statewide Rural Interstate Vehicle Mix

Vehicle Type		Calculation		2008 State Mix
Light Duty Vehicles				
LDV	=	$0.3807 \times (0.7274/0.8792)$	=	0.3151
LDT1	=	$0.0846 \times (0.7274/0.8792)$	=	0.0700
LDT2	=	$0.2817 \times (0.7274/0.8792)$	=	0.2331
LDT3	=	$0.0868 \times (0.7274/0.8792)$	=	0.0718
LDT4	=	$0.0399 \times (0.7274/0.8792)$	=	0.0330
MC	=	$0.0055 \times (0.7274/0.8792)$		0.0046
Heavy Duty Vehicles				
HDV2B	=	$0.0388 \times (0.2726/0.1207)$	=	0.0876
HDV3	=	$0.0038 \times (0.2726/0.1207)$	=	0.0086
HDV4	=	$0.0031 \times (0.2726/0.1207)$	=	0.0070
HDV5	=	$0.0024 \times (0.2726/0.1207)$	=	0.0054
HDV6	=	$0.0087 \times (0.2726/0.1207)$	=	0.0196
HDV7	=	$0.0102 \times (0.2726/0.1207)$	=	0.0230
HDV8A	=	$0.0111 \times (0.2726/0.1207)$	=	0.0251
HDV8B	=	$0.0397 \times (0.2726/0.1207)$	=	0.0896
HDBS	=	$0.0020 \times (0.2726/0.1207)$	=	0.0045
HDBT	=	$0.0009 \times (0.2726/0.1207)$	=	0.0020

This method was used to generate all of the future year vehicle mixes that were needed to compute the emission factors. The North Carolina transportation partners consider the statewide vehicle mix to be the best representation of the vehicle population in the Hickory and Triad nonattainment areas. The vehicle mixes for all years can be found in Section 5.3 of this appendix.

4.2.5 Temperature, Relative Humidity and Barometric Pressure Assumptions

The MOBILE6.2 command “HOURLY TEMPERATURES” was used to enter 24 hourly temperatures to estimate mobile source emissions. This command requires the command name followed by the 24 hourly temperatures in the data field in the RUN SECTION of the mobile input files. The temperatures must be listed beginning with the 6 a.m. and continuing through 5 a.m. the next day. The first 12 values must be on the same line as the command; the remaining twelve must be on the next line. For mobile source emission estimates, the NCDAQ used 2002

quarterly averages for the 24-hour temperature profile from the Hickory Airport for Catawba County and the Triad Regional Airport for Davidson and Guilford Counties. Data were obtained by the NCDAQ meteorologists from North Carolina State Climate Retrieval and Observations Network of the Southeast Database (CRONOS).

The MOBILE6.2 command “RELATIVE HUMIDITY” was used to enter 24 hourly relative humidity values to estimate mobile source emissions. This command requires the 24 hourly values be in the same format as the HOURLY TEMPERATURES command. The relative humidity values are entered in the SCENARIO section of the mobile input files. Just as the temperatures, the relative humidity data represents a 2002 quarterly average profile from the corresponding airports. When the RELATIVE HUMIDITY command is used, the user supplied relative humidity values are converted to absolute humidity. This conversion requires values of temperature and barometric pressure.

The BAROMETRIC PRES command allows the user to change the default value of barometric pressure used in the humidity conversion. A pressure of 30.0 inches of mercury is used in the exercise.

The temperature profiles as presented in the MOBILE6.2 input files are listed below for each quarter.

Catawba County

First Quarter	37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
	51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6
Second Quarter	58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
	74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5
Third Quarter	66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
	79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9
Fourth Quarter	43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
	51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

Davidson County & Guilford County

First Quarter	37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
	50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1
Second Quarter	58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
	74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5
Third Quarter	68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
	79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3
Fourth Quarter	44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
	51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

The relative humidity profiles as presented in the MOBILE6.2 input files are listed below for each quarter.

Catawba County

First Quarter	74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5
Second Quarter	86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4
Third Quarter	87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2
Fourth Quarter	85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

Davidson County & Guilford County

First Quarter	74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4
Second Quarter	82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7
Third Quarter	86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6
Fourth Quarter	85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

4.2.6 Vehicle Inspection and Maintenance Program Assumptions

In 2002, North Carolina implemented a new vehicle emissions inspection program referred to as onboard diagnostics (OBDII). This program covers all light duty gasoline powered vehicles that are model year 1996 and newer. The program was initially implemented in 9 counties and was expanded to include a total of 48 counties between July 2002 and January 2006. Guilford County was phased in July 2002. Davidson and Catawba Counties were phased-in July 1, 2003. The OBDII compliance rate used in the mobile source emission estimates is 95 percent. In addition, the inspection stations are required to administer an anti-tampering check to ensure that emissions control equipment on any vehicle 35 years old and newer has not been altered.

4.2.7 Reid Vapor Pressure (RVP) Assumptions

RVP reflects a gasoline's volatility. During the winter months an RVP of 14.0 pounds per square inch (psi) is allowable. As ambient air temperatures increase, so does the volatility of gasoline. Lower RVP leads to lower volatile organic compounds (VOC) emissions from gasoline handling and lowers vapor losses from motor vehicles. An RVP of 9.0 psi is required during May through September for Catawba County. An RVP of 9.0 psi is required for Davidson and Guilford Counties in May, but further reduces to an RVP of 7.8 psi for June through September. MOBILE6.2 was run quarterly to account for the ambient temperature's

effect on NO_x emissions. An average RVP was used for each quarter based on specific county requirements. Table 4.2.7-1 lists the RVPs used for each county.

Table 4.2.7-1 RVP per quarter in psi

	Q1	Q2	Q3	Q4
Catawba	14.0	10.5	9.0	14.0
Guilford	14.0	10.1	7.8	14.0
Davidson	14.0	10.1	7.8	14.0

4.2.8 Diesel Sulfur Content Assumptions

The diesel fuel sulfur content is required in MOBILE6.2 to generate PM_{2.5} emission factors because the amount of sulfur in diesel fuel directly correlates to sulfate particulate emissions. For the MVEBs calculation, the USEPA recommends a diesel fuel sulfur content of 43 parts per million (ppm) for the period June 2006-May 2010 and 11 ppm for June 2010 -2015, for all of the nonattainment counties. These values come from Section 5.5 in Technical Guidance on the Use of MOBILE6.2 for Emission Inventory Preparation. The USEPA's Office of Transportation and Air Quality (OTAQ) was contacted at the time of this submission to verify that there was no update to this guidance.

4.3 VMT Assumptions

In order to calculate emissions from on-road mobile sources, emission factors are developed as discussed throughout this document. The emission factors are then multiplied by an activity level, which for on-road mobile sources is daily VMT. The modeled and non-modeled VMT for the Triad nonattainment area was provided by PART on February 11, 2009 for the years 2008, 2011, 2014, 2017, and in September 2009 for the year 2021. The non-modeled VMT for the Hickory nonattainment area was provided by NCDOT in September 2009 for the years 2008, 2011, 2015, 2020, and 2025, which were interpolated to the required years. The modeled VMT for Catawba County were received for the years 2007, 2015, 2020, and 2025 and interpolated to the years needed. Tables 4.3-1 through 4.3-5 list the VMT used in the MVEBs calculations.

Table 4.3-1 Modeled Vehicle Miles Traveled for Davidson County

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	395,808	427,523	454,579	482,342	520,791
Urban Freeway or Expressway	410,216	436,626	489,844	529,960	566,161
Urban Other Principal Arterial	400,851	417,566	424,786	445,799	485,302
Urban Minor Arterial	313,228	333,766	349,383	369,146	399,106
Urban Collector	174,365	188,452	204,905	216,695	228,296
Urban Local	263,573	282,255	299,328	314,619	334,105
Rural Interstate	205,714	221,276	236,619	251,896	272,214
Rural Other Principal Arterial	0	0	0	301	350
Rural Minor Arterial	210,241	224,000	239,192	266,365	310,129
Rural Major Collector	164,069	175,155	185,178	195,299	209,788
Rural Minor Collector	134,626	144,647	154,644	161,725	169,253
Rural Local	278,885	301,554	319,434	331,683	346,180

Table 4.3-2 Vehicle Miles Traveled for Davidson County Rural Donut Area

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	342,756	364,745	374,943	385,141	398,738
Urban Freeway or Expressway	195,218	205,614	211,362	217,111	224,776
Urban Other Principal Arterial	271,728	284,492	292,446	300,400	311,005
Urban Minor Arterial	246,395	254,965	262,094	269,222	278,727
Urban Collector	94,146	107,235	110,233	113,232	117,229
Urban Local	96,153	98,562	101,318	104,074	107,748
Rural Interstate	255,299	251,587	258,621	265,655	275,034
Rural Other Principal Arterial	152,576	149,062	153,229	157,397	162,954
Rural Minor Arterial	198,073	198,673	204,228	209,783	217,189
Rural Major Collector	241,204	238,551	245,220	251,890	260,783
Rural Minor Collector	160,589	165,660	170,292	174,924	181,099
Rural Local	98,912	98,757	101,518	104,280	107,961

Table 4.3-3 Vehicle Miles Traveled for Guilford County

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	3,985,564	4,419,157	4,865,961	5,227,576	5,686,133
Urban Freeway or Expressway	2,251,352	2,452,593	2,613,197	2,905,078	3,399,412
Urban Other Principal Arterial	2,368,151	2,477,254	2,591,662	2,679,083	2,770,030
Urban Minor Arterial	2,727,044	2,837,423	3,012,805	3,147,788	3,280,571
Urban Collector	1,368,123	1,452,017	1,570,260	1,645,148	1,700,307
Urban Local	780,183	815,646	847,770	878,533	917,755
Rural Interstate	989,050	1,090,492	1,229,196	1,351,896	1,492,538
Rural Other Principal Arterial	513,834	545,289	546,548	567,373	605,086
Rural Minor Arterial	244,663	273,514	278,683	287,233	304,790
Rural Major Collector	776,249	838,619	898,783	941,639	993,028
Rural Minor Collector	360,879	393,534	420,122	448,880	491,674
Rural Local	411,379	435,206	655,193	721,391	643,883

Table 4.3-4 Vehicle Miles Traveled for Catawba County Modeled Portion

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	1,082,650	1,173,558	1,264,465	1,343,145	1,439,900
Urban Freeway or Expressway	326,299	355,400	384,500	413,800	453,001
Urban Other Principal Arterial	875,547	924,218	972,889	1,020,227	1,082,454
Urban Minor Arterial	922,232	978,471	1,034,710	1,084,007	1,145,109
Urban Collector	296,562	321,947	347,332	369,591	397,186
Urban Local	249,239	279,431	309,622	335,319	366,584
Rural Interstate	55,519	60,555	65,591	70,918	78,214
Rural Other Principal Arterial	203,044	223,934	244,824	266,142	294,853
Rural Minor Arterial	116,496	127,525	138,554	151,696	170,628
Rural Major Collector	97,859	108,994	120,128	130,182	142,869
Rural Minor Collector	206,017	227,192	248,367	268,052	293,307
Rural Local	83,014	91,622	100,230	108,227	118,484

Table 4.3-5 Vehicle Miles Traveled for Catawba County Rural Donut Area

Functional Class	2008	2011	2014	2017	2021
Urban Interstate	121,399	130,012	135,296	140,580	147,625
Urban Freeway or Expressway	48,073	51,483	53,576	55,668	58,458
Urban Other Principal Arterial	134,146	143,663	149,502	155,341	163,126
Urban Minor Arterial	103,768	111,130	115,647	120,163	126,185
Urban Collector	28,738	30,777	32,027	33,278	34,946
Urban Local	93,964	100,630	104,720	108,810	114,263
Rural Interstate	16,696	17,880	18,607	19,334	20,303
Rural Other Principal Arterial	35,762	38,299	39,855	41,412	43,487
Rural Minor Arterial	53,291	57,072	75,073	82,619	85,712
Rural Major Collector	26,637	28,527	29,686	30,846	32,392
Rural Minor Collector	49,311	52,810	54,956	57,102	59,964
Rural Local	27,521	29,474	30,671	31,869	33,466

4.4 Off Model Calculations

Not all 100 counties in North Carolina have a motor vehicle emission inspection and maintenance (I/M) program to address mobile emissions. As a direct result, such a control measure must be evaluated based on commuting activities to account for the vehicles that are not subject to such a program traveling throughout the nonattainment area. A methodology was developed using accident data that is tracked by the NCDOT as a surrogate for commuting patterns. The accident data used in this analysis is for 2007. This methodology was approved by the USEPA and will be used in this analysis.

All Hickory and Triad nonattainment area counties were phased into the North Carolina emission inspection program by 2007, so the 2008, 2011, 2014, 2017, and 2021 runs will have the same I/M fraction. Table 4.4-1 summarizes the I/M fractions used to calculate the tons per year emissions for each of the counties being analyzed.

Table 4.4-1 I/M Fractions

County	2008, 2011, 2014, 2017 and 2021
Davidson	0.94
Guilford	0.94
Catawba	0.91

The calculation of tons per day is as follows:

$$\text{Emissions} = \frac{[\text{I/M EF} \times \text{I/M fraction} \times \text{VMT}] + [\text{Non I/M EF} \times \text{I/M fraction} \times \text{VMT}]}{C}$$

Where:

- I/M EF = all vehicle emission factor from MOBILE6.2 inspection and maintenance run output for each road type (grams/mile)
- I/M fraction = calculated I/M fraction for the analysis year
- VMT = daily vehicle miles traveled (miles/day)
- Non I/M EF = all vehicle emission factor from MOBILE6.2 non-inspection and maintenance output for each road type
- C = conversion factor from grams to tons = 907185 grams per ton

The tons per day emissions for each quarter are then multiplied by the number of days in the quarter. The quarterly emissions are then summed to the annual emissions.

4.5 Estimated Emissions From Mobile Sources

Each road type will have different emissions, which is then summed for each county for each year evaluated. A summary of emissions in tons per year, by county, is provided in Tables 4.5-1, 4.5-2 and 4.5-3 for NO_x, PM_{2.5}, and SO₂ emissions, respectively.

Table 4.5-1 NOx Road Type Emissions by County (tons/year)

Road Type	2008	2011	2014	2017	2021
<i>Catawba County TDM</i>					
Rural interstate	83	62	44	31	20
Rural principle arterial	177	142	106	82	61
Rural minor arterial	74	60	46	37	29
Rural major collector	53	45	36	29	22
Rural minor collector	110	92	73	58	45
Rural local	51	42	33	26	20
Urban interstate	1091	837	596	432	300
Urban freeway	222	178	135	106	79
Urban principle arterial	467	377	289	223	168
Urban minor arterial	446	366	286	223	170
Urban collector	139	117	94	74	58
Urban local	134	114	92	73	57
Total NOx for TDM	3,047	2,433	1,829	1,392	1,029
<i>Catawba County Rural</i>					
Rural interstate	24	18	13	9	6
Rural principal arterial	26	20	15	11	8
Rural minor arterial	35	28	26	20	15
Rural major collector	14	12	9	7	5
Rural minor collector	27	22	17	13	9
Rural local	17	14	10	8	6
Urban interstate	132	101	72	52	36
Urban freeway	37	29	21	16	11
Urban principal arterial	73	59	45	34	25
Urban minor arterial	50	42	32	25	19
Urban collector	14	11	9	7	5
Urban local	50	41	31	24	18
Total NOx for Rural	499	397	299	225	164
Total NOx for Catawba County	3,546	2,830	2,128	1,617	1,193

Table 4.5-1 NOx Road Type Emissions by County (tons/year) Continued

Road Type	2008	2011	2014	2017	2021
<i>Davidson County TDM</i>					
Rural interstate	314	238	168	123	85
Rural principle arterial	0	0	0	0	0
Rural minor arterial	146	115	87	69	55
Rural major collector	89	72	55	42	32
Rural minor collector	77	63	48	37	27
Rural local	180	145	109	81	59
Urban interstate	449	347	250	185	132
Urban freeway	319	249	192	149	107
Urban principle arterial	216	171	126	96	74
Urban minor arterial	153	126	97	76	58
Urban collector	83	69	56	44	33
Urban local	148	119	92	70	53
Total NOx for TDM	2,174	1,714	1,279	973	717
<i>Davidson County Rural</i>					
Rural interstate	390	270	184	129	86
Rural principal arterial	110	79	56	42	29
Rural minor arterial	128	96	70	51	37
Rural major collector	130	98	73	55	40
Rural minor collector	88	69	51	38	28
Rural local	60	45	33	25	18
Urban interstate	363	284	194	139	96
Urban freeway	149	115	83	61	43
Urban principal arterial	147	117	87	66	48
Urban minor arterial	119	95	72	55	40
Urban collector	44	39	30	23	17
Urban local	51	40	30	22	16
Total NOx for Rural	1,780	1,346	963	706	499
Total NOx for Davidson County	3,954	3,060	2,243	1,679	1,216

Table 4.5-1 NOx Road Type Emissions by County (tons/year) Continued

Road Type	2008	2011	2014	2017	2021
<i>Guilford County TDM</i>					
Rural interstate	1,156	823	575	419	299
Rural principle arterial	337	251	172	125	91
Rural minor arterial	142	112	79	58	44
Rural major collector	391	310	233	176	132
Rural minor collector	187	149	111	85	66
Rural local	228	172	183	143	90
Urban interstate	3,233	2,442	1,795	1,319	961
Urban freeway	1,441	1,102	785	615	508
Urban principle arterial	1,163	892	655	487	361
Urban minor arterial	1,214	943	718	546	412
Urban collector	591	471	366	281	185
Urban local	379	290	212	158	118
Total NOx for Guilford County	10,462	7,957	5,885	4,410	3,268

Table 4.5-2 PM2.5 Road Type Emissions by County (tons/year)

Road Type	2008	2011	2014	2017	2021
<i>Catawba County TDM</i>					
Rural interstate	1	1	1	1	1
Rural principle arterial	3	2	2	2	2
Rural minor arterial	1	1	1	1	1
Rural major collector	1	1	1	1	1
Rural minor collector	2	2	2	2	2
Rural local	1	1	1	1	1
Urban interstate	17	14	11	9	9
Urban freeway	4	3	3	3	3
Urban principle arterial	9	7	6	6	6
Urban minor arterial	8	7	6	6	6
Urban collector	2	2	2	2	2
Urban local	2	2	2	2	2
Total PM_{2.5} for TDM	51	44	37	34	32
<i>Catawba County Rural</i>					
Rural interstate	0	0	0	0	0
Rural principal arterial	0	0	0	0	0
Rural minor arterial	1	1	1	1	0
Rural major collector	0	0	0	0	0
Rural minor collector	0	0	0	0	0
Rural local	0	0	0	0	0
Urban interstate	2	2	1	1	1
Urban freeway	1	0	0	0	0
Urban principal arterial	1	1	1	1	1
Urban minor arterial	1	1	1	1	1
Urban collector	0	0	0	0	0
Urban local	1	1	1	1	1
Total PM_{2.5} for Rural	8	7	6	5	5
Total PM_{2.5} for Catawba County	59	51	43	39	37

Table 4.5-2 PM_{2.5} Road Type Emissions by County (tons/year) Continued

Road Type	2008	2011	2014	2017	2021
<i>Davidson County TDM</i>					
Rural interstate	4	3	3	2	2
Rural principle arterial	0	0	0	0	0
Rural minor arterial	3	2	2	2	2
Rural major collector	2	1	1	1	1
Rural minor collector	1	1	1	1	1
Rural local	3	3	2	2	2
Urban interstate	6	5	4	3	3
Urban freeway	5	4	4	3	3
Urban principle arterial	4	3	3	3	3
Urban minor arterial	3	2	2	2	2
Urban collector	1	1	1	1	1
Urban local	3	2	2	2	2
Total PM_{2.5} for TDM	35	29	24	22	21
<i>Davidson County Rural</i>					
Rural interstate	6	4	3	2	2
Rural principal arterial	2	2	1	1	1
Rural minor arterial	2	2	2	1	1
Rural major collector	2	2	2	1	1
Rural minor collector	2	1	1	1	1
Rural local	1	1	1	1	1
Urban interstate	5	4	3	3	2
Urban freeway	2	2	2	1	1
Urban principal arterial	3	2	2	2	2
Urban minor arterial	2	2	2	1	1
Urban collector	1	1	1	1	1
Urban local	1	1	1	1	1
Total PM_{2.5} for Rural	29	23	19	16	15
Total PM_{2.5} for Davidson County	64	52	43	38	36

Table 4.5-2 PM_{2.5} Road Type Emissions by County (tons/year) Continued

Road Type	2008	2011	2014	2017	2021
<i>Guilford County TDM</i>					
Rural interstate	17	13	11	10	9
Rural principle arterial	6	5	4	3	3
Rural minor arterial	3	2	2	2	2
Rural major collector	6	6	5	5	5
Rural minor collector	3	3	2	2	2
Rural local	4	3	4	4	3
Urban interstate	52	42	35	32	32
Urban freeway	23	19	17	16	18
Urban principle arterial	20	17	15	14	14
Urban minor arterial	20	17	16	16	16
Urban collector	10	9	8	8	8
Urban local	7	6	5	5	5
Total PM_{2.5} for Guilford County	170	142	125	117	117

Table 4.5-3 SO₂ Road Type Emissions by County (tons/year)

Road Type	2008	2011	2014	2017	2021
<i>Catawba County TDM</i>					
Rural interstate	0.3	0.2	0.2	0.3	0.3
Rural principle arterial	0.9	0.8	0.9	1.0	1.1
Rural minor arterial	0.5	0.5	0.5	0.5	0.6
Rural major collector	0.4	0.4	0.4	0.5	0.5
Rural minor collector	0.8	0.8	0.9	0.9	1.0
Rural local	0.4	0.3	0.4	0.4	0.4
Urban interstate	5.4	4.2	4.6	4.9	5.3
Urban freeway	1.5	1.3	1.4	1.5	1.6
Urban principle arterial	3.6	3.2	3.4	3.6	3.8
Urban minor arterial	3.6	3.4	3.6	3.8	4.1
Urban collector	1.1	1.1	1.2	1.3	1.4
Urban local	1.0	1.0	1.1	1.2	1.3
Total SO₂ for TDM	19.6	17.1	18.5	19.9	21.4
<i>Catawba County Rural</i>					
Rural interstate	0.1	0.1	0.1	0.1	0.1
Rural principal arterial	0.2	0.1	0.1	0.2	0.2
Rural minor arterial	0.2	0.2	0.3	0.3	0.3
Rural major collector	0.1	0.1	0.1	0.1	0.1
Rural minor collector	0.2	0.2	0.2	0.2	0.2
Rural local	0.1	0.1	0.1	0.1	0.1
Urban interstate	0.6	0.5	0.5	0.5	0.5
Urban freeway	0.2	0.2	0.2	0.2	0.2
Urban principal arterial	0.5	0.5	0.5	0.6	0.6
Urban minor arterial	0.4	0.4	0.4	0.4	0.4
Urban collector	0.1	0.1	0.1	0.1	0.1
Urban local	0.4	0.3	0.4	0.4	0.4
Total SO₂ for Rural	3.2	2.8	3.0	3.1	3.3
Total SO₂ for Catawba County	23	20	22	23	25

Table 4.5-3 SO₂ Road Type Emissions by County (tons/year) Continued

Road Type	2008	2011	2014	2017	2021
<i>Davidson County TDM</i>					
Rural interstate	1	1	1	1	1
Rural principle arterial	0	0	0	0	0
Rural minor arterial	1	1	1	1	1
Rural major collector	1	1	1	1	1
Rural minor collector	1	1	1	1	1
Rural local	1	1	1	1	1
Urban interstate	2	2	2	2	2
Urban freeway	2	2	2	2	2
Urban principle arterial	2	1	1	2	2
Urban minor arterial	1	1	1	1	1
Urban collector	1	1	1	1	1
Urban local	1	1	1	1	1
Total SO₂ for TDM	13	11	12	13	14
<i>Davidson County Rural</i>					
Rural interstate	2	1	1	1	1
Rural principal arterial	1	1	1	1	1
Rural minor arterial	1	1	1	1	1
Rural major collector	1	1	1	1	1
Rural minor collector	1	1	1	1	1
Rural local	0	0	0	0	0
Urban interstate	2	1	1	1	1
Urban freeway	1	1	1	1	1
Urban principal arterial	1	1	1	1	1
Urban minor arterial	1	1	1	1	1
Urban collector	0	0	0	0	0
Urban local	0	0	0	0	0
Total SO₂ for Rural	11	9	9	9	10
Total SO₂ for Davidson County	24	20	21	22	24

Table 4.5-3 SO₂ Road Type Emissions by County (tons/year) Continued

Road Type	2008	2011	2014	2017	2021
<i>Guilford County TDM</i>					
Rural interstate	6	4	5	5	6
Rural principle arterial	2	2	2	2	2
Rural minor arterial	1	1	1	1	1
Rural major collector	3	3	3	3	4
Rural minor collector	1	1	1	2	2
Rural local	2	2	2	3	2
Urban interstate	20	16	18	19	21
Urban freeway	10	9	9	10	12
Urban principle arterial	10	9	9	9	10
Urban minor arterial	11	10	11	11	12
Urban collector	5	5	5	6	5
Urban local	3	3	3	3	3
Total SO₂ for Guilford County	74	64	69	75	80

4.6 Motor Vehicle Emissions Budget for Conformity

4.6.1 Transportation Conformity

The purpose of transportation conformity is to ensure that Federal transportation actions occurring in a nonattainment area do not hinder the area from attaining and/or maintaining the annual PM_{2.5} standard. This means that the level of emissions estimated by the NCDOT or the MPOs for the Transportation Improvement Program and Long Range Transportation Plan must not exceed the MVEBs as defined in this maintenance plan.

4.6.2 Pollutants to be Considered

40 CFR 93.119(f)(7) through (10) identifies the pollutants for PM_{2.5} that regional emissions analysis needs to be performed for transportation conformity purposes. These parts of the rule are listed below:

§119(f)(7) – PM_{2.5} in PM_{2.5} areas;

§119(f)(8) – Reentrained road dust in PM_{2.5} areas only if the EPA [Environmental Protection Agency] Regional Administrator or the director of the State air agency has made a finding that emissions from reentrained road dust within the area are a significant contributor to the PM_{2.5} nonattainment problem and has so notified the MPO and DOT [Department of Transportation];

§119(f)(9) – NO_x [nitrogen oxides] in PM_{2.5} areas, unless the EPA Regional Administrator and the director of the State air agency have made a finding that emissions of NO_x from within the area are not a significant contributor to the PM_{2.5} nonattainment problem and has so notified the MPO and DOT; and

§119(f)(10) – VOC, SO₂ and/or ammonia in PM_{2.5} areas if the EPA Regional Administrator or the director of the State air agency has made a finding that any of such precursor emissions from within the area are a significant contributor to the PM_{2.5} nonattainment problem and has so notified the MPO and DOT.

Only primary, or direct PM_{2.5}, tailpipe emissions must be considered for transportation conformity regional emissions analysis. The other precursor pollutants and reentrained road dust only need to be considered if the State air agency and/or the USEPA has deemed the pollutant as a significant contributor to the PM_{2.5} nonattainment problem. The following sections discuss the significance of the precursor pollutants and reentrained road dust to the PM_{2.5} nonattainment problem.

Precursor Pollutants NO_x, VOC, and Ammonia

The PM_{2.5} precursor NO_x is presumed to be a significant contributor to the PM_{2.5} nonattainment problem by the USEPA. The NCDAQ has determined that NO_x is a relatively minor contributor to the PM_{2.5} concentrations in North Carolina. However, the NCDAQ is not asserting that NO_x is an insignificant precursor for the 1997 PM_{2.5} standard. Therefore, the NCDAQ will establish county level MVEBs for NO_x for all three PM_{2.5} nonattainment counties.

For the purpose of this attainment demonstration, VOC and ammonia are presumed to be insignificant contributors to the PM_{2.5} nonattainment problem by the USEPA. The NCDAQ agrees with the USEPA that both VOC and ammonia are insignificant contributors to the PM_{2.5} nonattainment problem in North Carolina. Since these precursors have been deemed insignificant, no MVEBs are being established for VOC or ammonia.

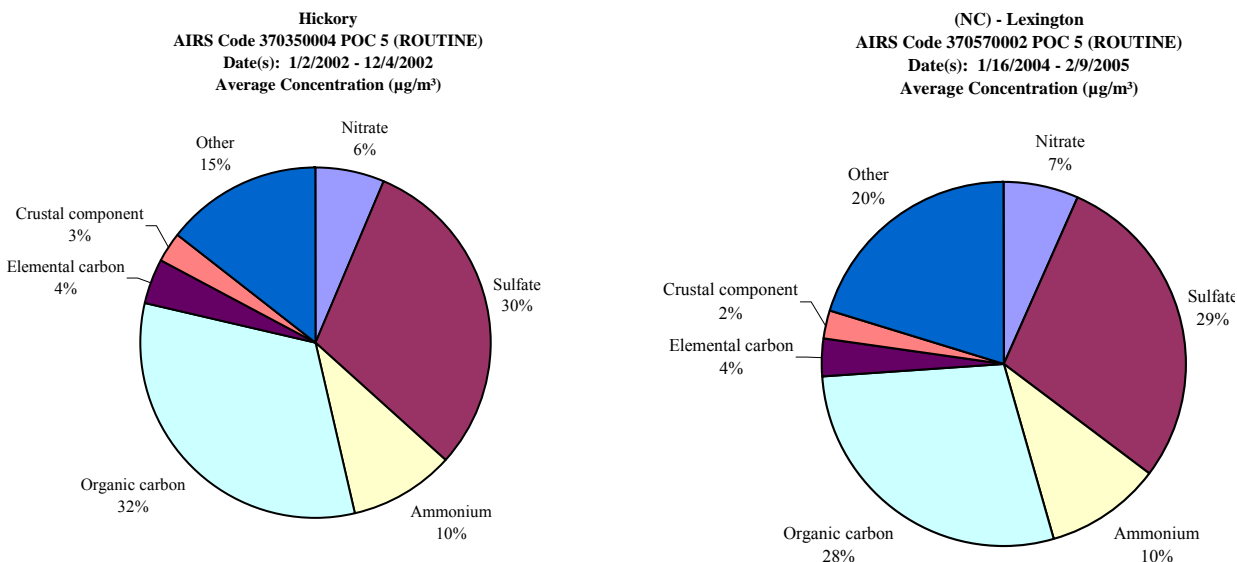
An affirmative insignificance finding from the USEPA only relieves the transportation partners from a regional emissions analysis for PM_{2.5} emissions for these areas and does not relieve them of the other transportation conformity requirements. The transportation partners will need to note the PM_{2.5} insignificance finding (if found adequate and approved by the USEPA) in future conformity determinations.

Reentrained Road Dust

The majority of the roads in North Carolina are paved so there is minimum road dust due to the paved roads. The factor to calculate reentrained road dust on paved roads is very small. What dust is generated, has been shown in the literature, *Methodology to Estimate the Transportable Fraction (TF) of Fugitive Dust Emissions for Regional and Urban Scale Air Quality Analyses*, *US EPA, August 3, 2005*, to be inconsequential.

This fact is affirmed by the small crustal component in the PM_{2.5} speciated data which measures only 3% at Hickory monitoring site (Catawba County) in 2002 and only 2% at Lexington monitoring site (Davidson County) in 2004 (see Figure 4.6.2-1 below).

Figure 4.6.2-1. Speciated Data for the Hickory area (left) and the Triad area (right)



Since the reentrained road dust is not a significant contributor to the PM_{2.5} nonattainment problem, the NCDAQ will not be establishing MVEBs for this source category. An affirmative insignificance finding from the USEPA only relieves the transportation partners from a regional emissions analysis for reentrained road dust emissions for these areas and does not relieve them of the other transportation conformity requirements. The transportation partners will need to note the reentrained road dust insignificance finding (if found adequate and approved by the USEPA) in future conformity determinations.

Precursor Pollutant SO₂

The PM_{2.5} precursor SO₂ could not be deemed insignificant to the PM_{2.5} nonattainment problem. However, the NCDAQ has determined that SO₂ emitted by the mobile source sector is insignificant. The USEPA in its Federal Register notice for PM_{2.5} does not address the mobile sector in its listing of significant emissions. North Carolina agrees with the following statements addressing SO₂ from on-road mobile emissions as published in the May 6, 2005 Federal Register, (70 FR 24283):

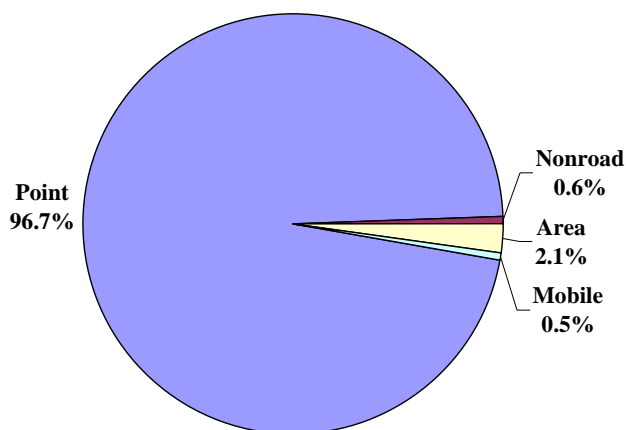
“While speciated air quality data show that sulfate is a relatively significant component (e.g., ranging from nine to 40 percent) of PM_{2.5} mass in all regions of the country, emissions inventory data and projections show that on-road emissions of SO_x constitute a “de minimis” (i.e., extremely small) portion of total SO_x emissions. Emissions inventory data for 1999 for the 372 potential PM_{2.5} nonattainment counties for PM_{2.5} (based on 1999–2001 air quality data) show that on-road sources were responsible for only two percent of total SO_x emissions.

Furthermore, EPA has already adopted two regulations that will greatly reduce emissions of SO_x from on-road sources by the time such regulations are both in full effect in 2009. First, in 2004 the low sulfur gasoline program began to be phased in and will be fully effective in 2007 (February 10, 2000, 65 FR 6697). This regulation will reduce the sulfur content of gasoline by approximately 90 percent when fully effective. Second, in 2006 the low sulfur diesel program will begin to be phased in and will be fully effective by 2009 (January 18, 2001, 66 FR 5001). This regulation will reduce the sulfur content of diesel fuel by approximately 97 percent nationally when fully effective.

Projections of on-road emissions of SO₂ in 2020 indicate that on-road sources will be responsible for less than one percent of the total SO₂ emissions in 2020 in the 372 potential PM_{2.5} nonattainment counties (based on 1999–2001 air quality data). These projections confirm that the implementation of the fuel regulations discussed above will ensure that as a general matter of SO₂ emissions from on-road sources remain at insignificant levels in all areas.”

Although sulfate is a significant component to the PM_{2.5} nonattainment problem in North Carolina, the majority of the SO₂ emissions (which can be oxidized to form sulfates) in 2009 come from the stationary point source sector (see Figure 4.6.2-2). The mobile source sector only contributes one half of one percent (0.5 %) of the 2009 statewide SO₂ emissions. This is consistent with what the USEPA stated above.

Figure 4.6.2-2. North Carolina's 2009 Statewide SO₂ Emissions



Since the mobile source SO₂ contribution is insignificant, the NCDAQ is not establishing MVEBs for this precursor. An affirmative insignificance finding from the USEPA only relieves the transportation partners from a regional emissions analysis for SO₂ emissions for these areas and does not relieve them of the other transportation conformity requirements. The transportation partners will need to note the SO₂ insignificance finding (if found adequate and approved by the USEPA) in future conformity determinations.

Direct PM_{2.5} Emissions

40 CFR 93.109(k) in the Transportation Conformity Rule Amendments for the new 8-hour ozone and fine particulate matter National Ambient Air Quality Standards (NAAQSs) addresses areas with insignificant motor vehicle emissions as follows,

“Notwithstanding the other paragraphs in this section, an area is not required to satisfy a regional emissions analysis for §93.118 and/or §93.119 for a given pollutant/precursor and NAAQS, if EPA finds through the adequacy or approval process that a SIP demonstrates that regional motor vehicle emissions are an insignificant contributor to the air quality problem for that pollutant/precursor and NAAQS. The SIP would have to demonstrate that it would be unreasonable to expect that such an area would experience enough motor vehicle emissions growth in that pollutant/precursor for a NAAQS violation to occur.”

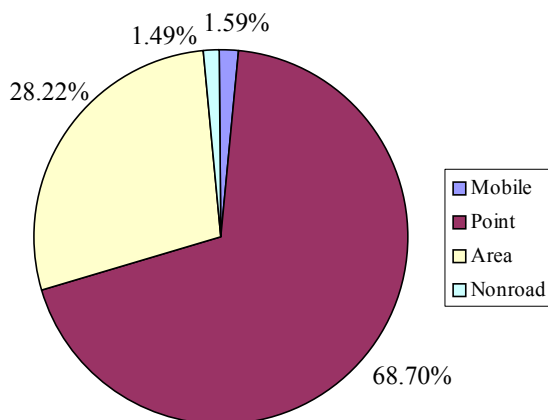
The rule suggests that such a finding would be based on a number of factors, including the percentage of motor vehicle emissions in the context of the total SIP inventory, the current state of air quality as determined by monitoring data for that NAAQS, the absence of SIP motor

vehicle control measures, and historical trends and future projections of the growth of motor vehicle emissions. Although there is an inspection and maintenance program in the nonattainment areas, this control measure does not control primary PM_{2.5}, but rather is in place to reduce the ozone precursors.

The NCDAQ believes strongly that the primary PM_{2.5} emissions from mobile sources do not contribute significantly to the PM_{2.5} nonattainment problem. However, the USEPA has indicated they will not approve a SIP that does not set MVEBs for primary PM_{2.5} for the Triad nonattainment area. Therefore, the NCDAQ will establish county level MVEBs for primary PM_{2.5} for this area. The sections that follow discuss the insignificance of PM_{2.5} emissions for the Hickory nonattainment area.

The attainment modeling for the Hickory and the Triad PM_{2.5} nonattainment areas was submitted to the USEPA on August 21, 2009. In conjunction with that modeling, the NCDAQ examined the sources of PM_{2.5} emissions and their contribution to PM_{2.5} formation in the nonattainment counties. This was accomplished using the 2009 emissions inventories developed for the attainment demonstration modeling. Figure 4.6.2-3 provides the percent contributions from point, area, nonroad mobile and on-road mobile source sectors for the Hickory nonattainment area.

Figure 4.6.2-3. Hickory Area 2009 Primary PM_{2.5} Emissions



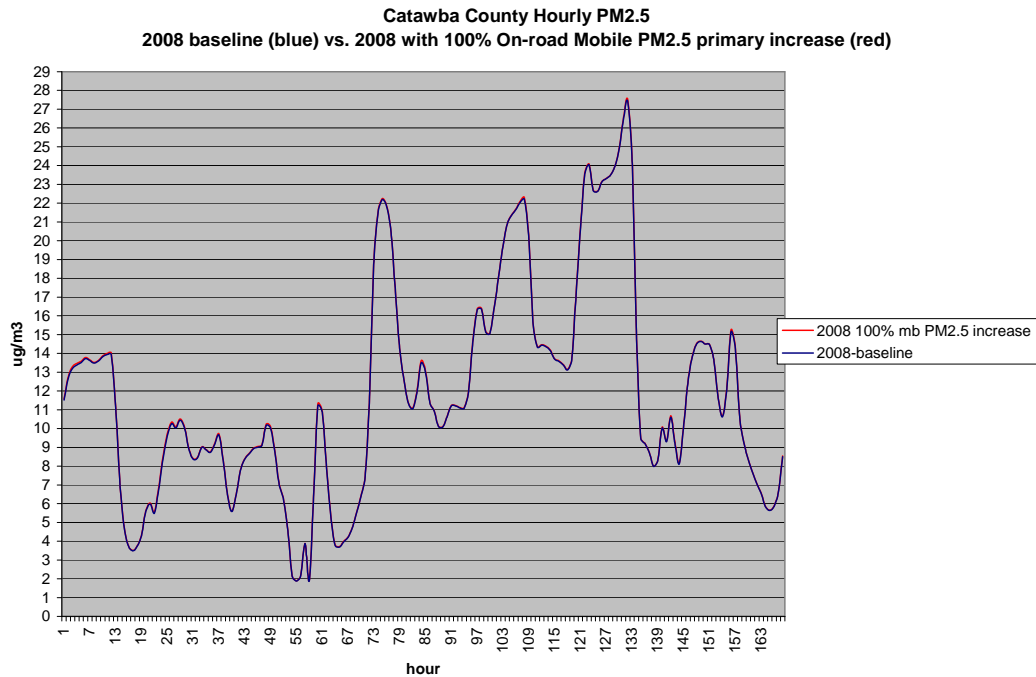
The 2009 on-road mobile PM_{2.5} emissions contributed only 1.6% of the total PM_{2.5} emissions for the Hickory area. Therefore, it is demonstrated that the PM_{2.5} emissions compared to the total

PM_{2.5} emissions are insignificant. It should be noted that the mobile source PM_{2.5} emissions slightly decrease from 2002 to 2009 despite an increase in VMT. The Hickory PM_{2.5} emissions go from 100 tons/year in 2002 to 75 tons/year in 2009. Meanwhile, there is an increase in VMT in the Hickory area from 4,444,280 miles/day in 2002 to 5,081,590 miles/day in 2009. Further justification for the case insignificance of direct PM_{2.5} emission follows.

The NCDAQ performed sensitivity modeling using 2008 emissions modeling in order to address the challenge of Section 93.109(k) in the Transportation Conformity Rule Amendments, “*The SIP would have to demonstrate that it would be unreasonable to expect enough motor vehicle emissions growth in that pollutant/precursor for a NAAQS violation to occur*”. The modeling system used was the same as the VISTAS/ASIP modeling and consisted of three components: 1) the Penn State University/National Center for Atmospheric Research Mesoscale Model (MM5 version 3.6.1+), 2) the Sparse Matrix Operator Kernel Emissions Modeling System (SMOKE version 2.1), and 3) the Community Multiscale Air Quality (CMAQ version 4.4) model. Model configurations, input data, and modeling methods are consistent with those suggested by the USEPA in Guidance on the Use of Models and Other Analyses in Attainment Demonstrations for the 8-hour Ozone NAAQS.

The primary PM_{2.5} emissions from on-road mobile sources were doubled in Catawba, Davidson and Guilford Counties, therefore, simulating a doubling of the VMT during a 7-day summer time simulation. The results of the emissions sensitivities showed such similar results that looking at just the difference between two air quality model simulations, one with base case emissions and another with increased emissions inputs, no change in air quality concentrations could be discerned. To show what the differences were between the two runs, line graphs of the hourly emissions for the time period modeled for Catawba County is displayed in Figures 4.6.2-3. The sensitivity modeling design value (DV) increased by 0.04 µg/m³ in Catawba County. The difference is barely visible as seen in the figure below.

Figure 4.6.2-4. Catawba County Hourly PM_{2.5} Emissions



Based on the information discussed above, the NCDAQ believes that the on-road mobile PM_{2.5} emissions are insignificant contributors to the PM_{2.5} nonattainment problem. Emission estimates indicate that the on-road mobile PM_{2.5} emissions are a small percentage of the total PM_{2.5} emissions in the Hickory nonattainment area. On-road mobile PM_{2.5} emissions are projected to decrease into the future notwithstanding VMT increases. Air quality modeling sensitivities show that doubling the mobile source PM_{2.5} emissions has very little effect on the future design values. The NCDAQ considers it unreasonable to expect that the Hickory PM_{2.5} nonattainment area will experience enough motor vehicle PM_{2.5} emissions growth for a future PM_{2.5} violation to occur due to mobile sources.

Due to above analysis and agreement from the USEPA, budgets for direct PM_{2.5} will not be set for the Hickory nonattainment area. An affirmative insignificance finding from the USEPA only relieves the transportation partners from a regional emissions analysis for PM_{2.5} emissions for this area and does not relieve them of the other transportation conformity requirements. The transportation partners will need to note the PM_{2.5} insignificance finding (if found adequate and approved by the USEPA) in future conformity determinations.

4.6.3 Safety Margin

A safety margin is the difference between the attainment level of emissions from all source categories (i.e., point, area, and mobile) and the projected level of emissions from all source

categories. The State may choose to allocate some of the safety margin to the MVEBs, for transportation conformity purposes, so long as the total level of emissions from all source categories remains below the attainment level of emissions. In this redesignation, the safety margin is the difference between the attainment level of emissions (2008) from all man-made sources and the projected level of emissions from all man-made sources in the nonattainment area. The safety margin for each projected year is listed below in Table 4.6.3-1 and 4.6.3-2.

Table 4.6.3-1 Safety Margin for Hickory PM_{2.5} Nonattainment Area

Year	NOx		PM _{2.5}	
	(tons/year)	(kilograms per year)	(tons/year)	(kilograms per year)
2011	-4,685	-4,250,162	-39	-35,380
2014	-5,679	-5,151,904	-84	-76,204
2017	-6,411	-5,815,963	-123	-111,584
2021	-7,023	-6,371,160	-167	-151,500

Table 4.6.3-2 Safety Margin for Triad PM_{2.5} Nonattainment Area

Year	NOx		PM _{2.5}	
	(tons/year)	(kilograms per year)	(tons/year)	(kilograms per year)
2011	-4,141	-3,756,653	-107	-97,069
2014	-7,795	-7,071,507	-218	-197,766
2017	-10,532	-9,554,472	-317	-287,578
2021	-12,717	-11,536,672	-413	-374,667

There are significant safety margins for both nonattainment areas for 2011 and 2021. The NCDAQ has decided to allocate a portion of the safety margin to the MVEBs to allow for unanticipated growth in VMT, changes to vehicle mix assumptions, etc. that will influence the emission estimations. However, since NOx is a precursor to ozone, the NCDAQ has decided to limit how much safety margin is added to the NOx MVEBs. In 2008 the USEPA lowered the National Ambient Air Quality Standard for ozone to 0.075 ppm. The NCDAQ believes adding an additional 10% to the 2011 NOx emissions is appropriate for the 2011 NOx MVEBs and adding an additional 20% to the 2021 NOx emissions is appropriate for the 2021 NOx MVEBs to account for potential changes in VMT, vehicle mix and vehicle age distribution for Catawba, Davidson, and Guilford Counties. This is consistent with how the NCDAQ has handled safety margins for NOx MVEBs in ozone maintenance plans. The NCDAQ believes that setting the

2011 and 2021 PM_{2.5} MVEBs to the level of PM_{2.5} emissions present in 2008 is a sufficient safety margin for Davidson and Guilford Counties.

4.6.4 Motor Vehicle Emission Budgets

As part of the consultation process on setting MVEBs, the NCDAQ sent out a request for comment on setting the geographic extent of the MVEBs to all of the transportation partners. A copy of the letter can be found in Appendix B. In the letter, the NCDAQ expressed its preference for setting county level budgets and the reasons why the NCDAQ believed county level budgets were appropriate. With respect to the PM_{2.5} nonattainment areas, the NCDAQ received comments from the Greensboro MPO regarding the geographic extent of the MVEBs. The Greensboro MPO agreed with the NCDAQ that MVEBs should be set at the county level. A copy of the letter received that relate to the PM_{2.5} nonattainment areas can be found in Appendix B. Therefore MVEBs will be set at the county level.

According to Section 93.118 of the transportation conformity rule, a maintenance plan must establish a MVEB for the last year of the maintenance plan (in this case, 2021). Through the interagency consultation process, it was decided that an interim MVEB would be set for the year 2011 for the Hickory and Triad maintenance plan.

Although the emissions are usually expressed in terms of tons, the MVEBs will be set in terms of kilograms (kg). The reason for the change is because the MOBILE6.2 model generates the emissions factors in grams per mile. In past conformity exercises, there have been some issues with conversion to tons, as well as concerns with how the MVEBs were rounded. Setting MVEBs in kilograms will avoid these issues in future conformity determinations. The conversion factor used is 907.185 kilograms per ton.

Tables 4.6.4-1 and 4.6.4-2 below display the PM_{2.5} and NO_x emissions, respectively expressed in kilograms per year and the corresponding tons per year for the years MVEBs are being established. These two tables are for reference purposes only and are not the tables presenting the MVEBs.

Table 4.6.4-1 On-Road Mobile Source PM_{2.5} Emissions

County	Kilograms/year		Tons/year	
	2011	2021	2011	2021
Davidson	47,665	32,394	52.54	35.71
Guilford	128,465	105,716	141.61	116.53
Triad Total	176,130	138,110	194.15	152.24

Table 4.6.4-2 On-Road Mobile Source NO_x Emissions

County	Kilograms/year		Tons/year	
	2011	2021	2011	2021
Catawba	2,567,557	1,082,209	2,830.25	1,192.93
Davidson	2,776,419	1,102,713	3,060.48	1,215.53
Guilford	7,218,360	2,964,834	7,956.88	3,268.17
Triad Total	9,994,779	4,067,547	11,017.36	4,483.70

The NCDAQ will set MVEB, for transportation conformity purposes, as county budgets within the Hickory and Triad maintenance areas for 2011 and 2021. Tables 4.6.4-3 through 4.6.4-5 below list out the MVEBs in kilograms per year, for transportation conformity purposes, by county for the years 2011 and 2021. Upon the USEPA's affirmative adequacy finding for these county level sub-area MVEBs, these MVEBs will become the applicable MVEBs for each county.

Table 4.6.4-3 Catawba County MVEB

	2011	2021
<i>NO_x Emissions (kg/year)</i>		
Base Emissions	2,567,557	1,082,209
Safety Margin Allocated to MVEB	256,756	216,442
NO_x Conformity MVEB	2,824,313	1,298,651

Table 4.6.4-4 Davidson County MVEB

	2011	2020
<i>NO_x Emissions (kg/year)</i>		
Base Emissions	2,776,419	1,102,713
Safety Margin Allocated to MVEB	277,642	220,543
NO_x Conformity MVEB	3,054,061	1,323,256
<i>PM_{2.5} Emissions (kg/year)</i>		
Base Emissions	47,665	32,394
Safety Margin Allocated to MVEB	10,361	25,632
PM_{2.5} Conformity MVEB	58,026	58,026

Table 4.6.4-5 Guilford County MVEB

	2011	2021
<i>NO_x Emissions (kg/year)</i>		
Base Emissions	7,218,360	2,964,834
Safety Margin Allocated to MVEB	721,836	592,967
NO_x Conformity MVEB	7,940,196	3,557,801
<i>PM_{2.5} Emissions (kg/year)</i>		
Base Emissions	128,465	105,716
Safety Margin Allocated to MVEB	26,191	48,940
PM_{2.5} Conformity MVEB	154,656	154,656

Tables 4.6.4-6 and 4.6.4-7 list that portion of the safety margin that was added to the mobile source emissions to develop the MVEBs. These values can be compared to those in Tables 4.6.3-1 and 4.6.3-2 to see that NCDAQ added only a small fraction of that which was available. With these safety margins, it is projected that emissions from all source categories will remain below the attainment level emissions.

Table 4.6.4-6 County Level PM25 MVEB Safety Margin for 2011 and 2021

County	2011 MVEB Safety Margin (Kilograms/year)	2021 MVEB Safety Margin (Kilograms/year)
Triad Total	36,151	74,171

Table 4.6.4-7 County Level NOx MVEB Safety Margin for 2011 and 2021

County	2011 MVEB Safety Margin (Kilograms/year)	2021 MVEB Safety Margin (Kilograms/year)
Catawba	256,756	216,442
Triad Total	999,478	813,510

For the Hickory nonattainment area, a total of 256,756 kg/year (283 tons/year) and 216,442 kg/year (239 tons/year) of the 2011 and 2021 NOx safety margins, respectively, were added to the NOx MVEBs.

For the Triad nonattainment area, a total of 999,478 kg/year (1,102 tons/year) and 813,510 kg/year (897 tons/year) of the 2011 and 2021 NOx safety margins, respectively, were added to the Triad NOx MVEBs. For PM_{2.5}, a total of 36,552 kg/year (40 tons/year) and 74,572 kg/year (82 tons/year) of the 2011 and 2021 PM_{2.5} safety margins, respectively, were added to the Triad PM_{2.5} MVEBs. Tables 4.6.4-8 and 4.6.4-9 reflect the remaining safety margins in tons per year.

Table 4.6.4-8 New Safety Margins for the Hickory PM_{2.5} nonattainment area

Year	NOx (tons/year)	PM _{2.5} (tons/year)
2011	-4,042	-39
2014	-5,679	-84
2017	-6,141	-123
2021	-6,784	-167

Table 4.6.4-9 New Safety Margins for the Triad PM_{2.5} nonattainment area

Year	NOx (tons/year)	PM _{2.5} (tons/year)
2011	-5,243	-67
2014	-7,799	-218
2017	-10,532	-317
2021	-13,614	-331

5.0 DATA USED

5.1 INPUT FILES

dav08p1.IN

MOBILE6 INPUT FILE :

> Davidson County 2008 I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 69 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

```

```

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

```

```

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

```

```

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30

```



```

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural principle arterial Rural
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

```

> Rural other principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor arterial Rural
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural major collector Rural
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor collector Rural
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :

```

```

0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural

```

CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4
BAROMETRIC PRES : 30
END OF RUN :

dav08P1N.IN

MOBILE6 INPUT FILE :

> Davidson County 2008 NON-I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 69 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00
> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

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VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012

```

0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural

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CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1

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PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
END OF RUN :

dav08p2.IN

MOBILE6 INPUT FILE :

> Davidson County 2008 I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 69 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7
```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Rural interstate mix and speeds

```

VMT FRACTIONS      :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local Rural
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMF FRACTIONS :
 0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
 0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate Rural
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMF FRACTIONS :
 0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
 0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway Rural
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMF FRACTIONS :
 0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
 0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial Rural
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
END OF RUN          :

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dav08p2n.IN

MOBILE6 INPUT FILE :

> Davidson County 2008 NON-I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 69 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

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VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012

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0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural

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CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056


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AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
END OF RUN :

dav08p3.IN

MOBILE6 INPUT FILE :

> Davidson County 2008 I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 69 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED     : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED     : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED     : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

```

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Rural interstate mix and speeds

```

VMT FRACTIONS      :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

```

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

```

```

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

```

```

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban principle arterial mix and speeds


```

VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
END OF RUN          :

```


dav08p3n.IN

MOBILE6 INPUT FILE :

> Davidson County 2008 NON-I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 69 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012

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0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local TDM Q3
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural interstate Rural
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural principle arterial Rural
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor arterial Rural

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CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
END OF RUN :

dav08p4.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2008 I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 69 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3

70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector TDM Q4
 CALENDAR YEAR : 2009
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
 0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
 0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local TDM Q4
 CALENDAR YEAR : 2009
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
 0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
 0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural interstate Rural
 CALENDAR YEAR : 2009
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
 0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
 0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural principle arterial Rural
 CALENDAR YEAR : 2009
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50

DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMF FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3

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70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS        :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED        : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                        70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS        :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED        : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                        70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED        : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY     : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                        70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban principle arterial mix and speeds

```
VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                      70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
```

> Urban minor arterial mix and speeds

```
VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                      70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
```

> Urban collector mix and speeds

```
VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                      70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
```

> Urban local mix and speeds

```
VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                      70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
```


BAROMETRIC PRES : 30
END OF RUN :

dav08p4n.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2008 NON-I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Davidson County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 69 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

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```

***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS :

```

```

0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

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> Rural major collector mix and speeds

```

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

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> Rural local mix and speeds

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VMT FRACTIONS :

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```

0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural

```

CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
END OF RUN :

davllp1.IN

MOBILE6 INPUT FILE :

> Davidson County 2011 I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q1
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED     : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q1
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED     : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q1
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED     : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q1
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

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DIESEL SULFUR      : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0

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51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector TDM Q1
 CALENDAR YEAR : 2011
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
 0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
 0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local TDM Q1
 CALENDAR YEAR : 2011
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
 0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
 0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural interstate Rural
 CALENDAR YEAR : 2011
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
 0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
 0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 66 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural principle arterial Rural
 CALENDAR YEAR : 2011
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30

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END OF RUN :

dav11p1n.IN

MOBILE6 INPUT FILE :

> Davidson County 2011 NON-I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

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VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway TDM Q1
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principle arterial TDM Q1
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial TDM Q1
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector TDM Q1
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :

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0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 66 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMF FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029

```

0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2011

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EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
END OF RUN :

dav1lp2.IN

MOBILE6 INPUT FILE :

> Davidson County 2011 I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural interstate mix and speeds

```

VMT FRACTIONS      :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 66 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural other principle arterial mix and speeds

```
VMT FRACTIONS      :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor arterial mix and speeds

```
VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural major collector mix and speeds

```
VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor collector mix and speeds

```
VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7
```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

```

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

```

```

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

```

```

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :

```

```

0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
END OF RUN          :

```

davllp2n.IN

MOBILE6 INPUT FILE :

> Davidson County 2011 NON-I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```


SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012

```

0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local TDM Q2
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural interstate Rural
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 66 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural principle arterial Rural
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor arterial Rural

```

CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2011

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EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
END OF RUN :

dav1lp3.IN

MOBILE6 INPUT FILE :

> Davidson County 2011 I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED     : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED     : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED     : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6


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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban collector mix and speeds

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VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban local mix and speeds

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VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Rural interstate mix and speeds

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VMT FRACTIONS      :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 66 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural other principle arterial mix and speeds

```
VMT FRACTIONS      :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                      63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor arterial mix and speeds

```
VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                      63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural major collector mix and speeds

```
VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                      63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor collector mix and speeds

```
VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                      63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6
```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

```

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

```

```

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

```

```

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
END OF RUN          :

```

davllp3n.IN

MOBILE6 INPUT FILE :

> Davidson County 2011 NON-I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30

```

```

***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS :

```

```

0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 66 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30

```



```

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural major collector mix and speeds

```

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                      63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                      63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                      63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                      63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES      : 30

```

```

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial Rural
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

```

```

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector Rural
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

```

```

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local Rural
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

```

```

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES     : 30
END OF RUN          :

```

dav1lp4.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2011 I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Davidson County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q4
CALENDAR YEAR     : 2012
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED     : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q4
CALENDAR YEAR     : 2012
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED     : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q4
CALENDAR YEAR     : 2012
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED     : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q4
CALENDAR YEAR     : 2012
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural interstate mix and speeds

```

VMT FRACTIONS      :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 66 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural other principle arterial mix and speeds

```
VMT FRACTIONS      :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor arterial mix and speeds

```
VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural major collector mix and speeds

```
VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor collector mix and speeds

```
VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
```


BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local Rural
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMF FRACTIONS :
 0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
 0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate Rural
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
 0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
 0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway Rural
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
 0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
 0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial Rural
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
END OF RUN          :

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davllp4n.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2011 NON-I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Davidson County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 49 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway TDM Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
 0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
 0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial TDM Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
 0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
 0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial TDM Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
 0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
 0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector TDM Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 66 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS      :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial Rural
CALENDAR YEAR     : 2012
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural major collector Rural
CALENDAR YEAR       : 2012
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor collector Rural
CALENDAR YEAR       : 2012
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural local Rural
CALENDAR YEAR       : 2012
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :

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```

0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural

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CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
END OF RUN :

dav14p1.IN

MOBILE6 INPUT FILE :

> Davidson County 2014 I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0

51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

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VMT FRACTIONS      :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
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> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4
```

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
 0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
 0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
 0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
 0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
END OF RUN          :

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dav14p1n.IN

MOBILE6 INPUT FILE :

> Davidson County 2014 NON-I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

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VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway TDM Q1
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

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> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principle arterial TDM Q1
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial TDM Q1
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector TDM Q1
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :

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```

0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029

```

0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
END OF RUN :

dav14p2.IN

MOBILE6 INPUT FILE :

> Davidson County 2014 I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0


```

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q2
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED     : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q2
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED     : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q2
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED     : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q2
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Urban interstate mix and speeds

VMF FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural interstate mix and speeds

```

VMT FRACTIONS      :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMF FRACTIONS :
 0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
 0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
 0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
 0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
 0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
 0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
END OF RUN          :

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dav14p2n.IN

MOBILE6 INPUT FILE :

> Davidson County 2014 NON-I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

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VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012

```

0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local TDM Q2
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural interstate Rural
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural principle arterial Rural
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor arterial Rural

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CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
END OF RUN :

dav14p3.IN

MOBILE6 INPUT FILE :

> Davidson County 2014 I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED     : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED     : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED     : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

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> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5

63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector TDM Q3
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
 0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
 0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local TDM Q3
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
 0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
 0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural interstate Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMF FRACTIONS :
 0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
 0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural principle arterial Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMF FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
 0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
 0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
 0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
 0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial Rural
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

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VMT FRACTIONS      :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
END OF RUN          :

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dav14p3n.IN

MOBILE6 INPUT FILE :

> Davidson County 2014 NON-I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

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VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :

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0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS       :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029

```

0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS       :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2014

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EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
END OF RUN :

dav14p4.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2014 I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Davidson County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural interstate mix and speeds

```

VMT FRACTIONS      :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural other principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :

```

```

0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
END OF RUN          :

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dav14p4n.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2014 NON-I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Davidson County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

```

```

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway TDM Q4
CALENDAR YEAR     : 2015
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principle arterial TDM Q4
CALENDAR YEAR       : 2015
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial TDM Q4
CALENDAR YEAR       : 2015
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector TDM Q4
CALENDAR YEAR       : 2015
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS      :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

```

```

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

```

```

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

```

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```


SCENARIO RECORD : Urban minor arterial Rural
 CALENDAR YEAR : 2015
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
 0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
 0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector Rural
 CALENDAR YEAR : 2015
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
 0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
 0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local Rural
 CALENDAR YEAR : 2015
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
 0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
 0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
 END OF RUN :

dav17p1.IN

MOBILE6 INPUT FILE :

> Davidson County 2017 I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4
```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector Rural
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
 0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local Rural
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
 0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate Rural
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
 0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway Rural
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```


SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
END OF RUN :

dav17p1n.IN

MOBILE6 INPUT FILE :

> Davidson County 2017 NON-I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015

```

0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural

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CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

```

PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4
BAROMETRIC PRES : 30
END OF RUN :

dav17p2.IN

MOBILE6 INPUT FILE :

> Davidson County 2017 I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

```

PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector Rural
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED     : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local Rural
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED     : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate Rural
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED     : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway Rural
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Urban freeway mix and speeds

VMF FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5


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49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED       : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                      49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES      : 30
END OF RUN           :

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dav17p2n.IN

MOBILE6 INPUT FILE :

> Davidson County 2017 NON-I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate TDM Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
 0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
 0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway TDM Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
 0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
 0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial TDM Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
 0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
 0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial TDM Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30

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```

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural principle arterial Rural
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Rural other principle arterial mix and speeds

```

VMT FRACTIONS      :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

```

```

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor arterial Rural
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

```

```

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural major collector Rural
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

```

```

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor collector Rural
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban principle arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :

0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
END OF RUN :

dav17p3.IN

MOBILE6 INPUT FILE :

> Davidson County 2017 I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban collector mix and speeds

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VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector Rural
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
 0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local Rural
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
 0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate Rural
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
 0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway Rural
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
END OF RUN :

dav17p3n.IN

MOBILE6 INPUT FILE :

> Davidson County 2017 NON-I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban interstate TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015

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0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural

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CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6
BAROMETRIC PRES : 30
END OF RUN :

dav17p4.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2017 I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Davidson County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

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RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                   70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Rural local mix and speeds

VMF FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural interstate mix and speeds

```
VMT FRACTIONS      :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                      70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural other principle arterial mix and speeds

```
VMT FRACTIONS      :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                      70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor arterial mix and speeds

```
VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                      70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural major collector mix and speeds

```
VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                      70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

```



```

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

```
> Urban local mix and speeds
```

```

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

```

```
AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0
```

```

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES     : 30
END OF RUN          :

```

dav17p4n.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2017 NON-I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Davidson County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 51 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban interstate TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015

```

0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector TDM Q4
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local TDM Q4
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural interstate Rural
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural principle arterial Rural

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CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022

```

0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural local Rural
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban interstate Rural
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway Rural
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principle arterial Rural
CALENDAR YEAR       : 2018

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EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 28 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

END OF RUN :

dav21p1.IN

MOBILE6 INPUT FILE :

> Davidson County 2021 I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q1
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00
> Rural minor arterial mix and speeds

VMT FRACTIONS     :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED    : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q1
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00
> Rural major collector mix and speeds

VMT FRACTIONS     :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED    : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q1
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00
> Rural minor collector mix and speeds

VMT FRACTIONS     :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED    : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q1
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Rural local mix and speeds

VMF FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 67 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0

51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector Rural
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
 0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local Rural
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
 0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate Rural
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
 0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway Rural
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4


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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban local mix and speeds

```

VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

```

```

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

```

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RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES     : 30
END OF RUN          :

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dav21p1n.IN

MOBILE6 INPUT FILE :

> Davidson County 2021 NON-I&M PM2.5 REDESIGNATION Q1
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :

RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 67 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

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VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural principle arterial Rural
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
 0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
 0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor arterial Rural
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
 0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
 0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural major collector Rural
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
 0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
 0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector Rural
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban principle arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1124 0.0517 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :

0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
END OF RUN :

dav21p2.IN

MOBILE6 INPUT FILE :

> Davidson County 2021 I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

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RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED     : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED     : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED     : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

```

DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 67 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5

49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

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VMT FRACTIONS      :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                      : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principle arterial Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural other principle arterial mix and speeds

```

VMT FRACTIONS      :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                      : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                      : 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
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> Rural major collector mix and speeds

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VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
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49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7


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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED        : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                       49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES      : 30
END OF RUN           :

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dav21p2n.IN

MOBILE6 INPUT FILE :

> Davidson County 2021 NON-I&M PM2.5 REDESIGNATION Q2
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30

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```

***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 67 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS :

```

```

0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :

```

0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban principle arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022

0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30

END OF RUN :

dav21p3.IN

MOBILE6 INPUT FILE :

> Davidson County 2021 I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD    : Rural minor arterial TDM Q3
CALENDAR YEAR      : 2021
EVALUATION MONTH   : 7
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.50
DIESEL SULFUR      : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS        :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED        : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD       : Rural minor collector TDM Q3
CALENDAR YEAR         : 2021
EVALUATION MONTH      : 7
PARTICULATE EF        : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE         : 2.50
DIESEL SULFUR         : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS        :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED        : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD       : Rural local TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50

```

DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 67 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5

63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Rural minor collector mix and speeds

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VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
END OF RUN          :

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dav21p3n.IN

MOBILE6 INPUT FILE :

> Davidson County 2021 NON-I&M PM2.5 REDESIGNATION Q3
> 2007 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Davidson County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 67 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway TDM Q3
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principle arterial TDM Q3
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial TDM Q3
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban minor arterial mix and speeds

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VMT FRACTIONS      :

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```

0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     : 63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMF FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022

```

0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural local Rural
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban interstate Rural
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway Rural
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principle arterial Rural
CALENDAR YEAR       : 2021

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EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

END OF RUN :

dav21p4.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2021 I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Davidson County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMF FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 67 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

```

```

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

```

```

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

```

```

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30

```

```

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

```



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***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

```

```

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

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BAROMETRIC PRES     : 30
END OF RUN          :

```

dav2lp4n.IN

MOBILE6 INPUT FILE :

> Davidson County Year+1 - 2021 NON-I&M PM2.5 REDESIGNATION Q4
> 2007 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Davidson County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : ncage07.prn

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 68 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 35 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 50 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 48 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban interstate TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 67 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015

```

0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 65 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Rural principle arterial Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMF FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022

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0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway Rural
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial Rural
CALENDAR YEAR        : 2022

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EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local Rural
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

END OF RUN :

gui08p1.IN

MOBILE6 INPUT FILE :

> Guilford County 2008 I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 47 Non-Ramp 100.0 0.0 0.0 0.0

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RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q1
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED     : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q1
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED     : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q1
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED     : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q1
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

```

> Rural local mix and speeds

VMF FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
END OF RUN           :

```

gui08pln.IN

MOBILE6 INPUT FILE :

> Guilford County 2008 NON-I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 47 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014


```

0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector TDM Q1
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local TDM Q1
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
END OF RUN          :

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gui08p2.IN

MOBILE6 INPUT FILE :

> Guilford County 2008 I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 47 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q2
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED     : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q2
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED     : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q2
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED     : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q2
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

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DIESEL SULFUR      : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5

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49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial TDM Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
 0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
 0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector TDM Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
 0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
 0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local TDM Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
 0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
 0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 END OF RUN :

gui08p2n.IN

MOBILE6 INPUT FILE :

> Guilford County 2008 NON-I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 47 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate TDM Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMF FRACTIONS :
 0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
 0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway TDM Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMF FRACTIONS :
 0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
 0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principle arterial TDM Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
 0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
 0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
 49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial TDM Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds


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VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF        : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE         : 2.50
DIESEL SULFUR         : 43.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF        : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE         : 2.50
DIESEL SULFUR         : 43.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
END OF RUN          :

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gui08p3.IN

MOBILE6 INPUT FILE :

> Guilford County 2008 NON-I&M PM2.5 REDESIGNATION Q3
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 47 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway TDM Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban principle arterial TDM Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial TDM Q3
CALENDAR YEAR     : 2008

```

EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

END OF RUN :

gui08p4.IN

MOBILE6 INPUT FILE :

> Guilford County I/M PM2.5 REDESIGNATION (Run Yr + 1) 2008 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

```

AVERAGE SPEED      : 47 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

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> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```


> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

END OF RUN :

gui08p4n.IN

MOBILE6 INPUT FILE :

> Guilford County NON-I&M PM2.5 REDESIGNATION (Run Yr + 1) 2008 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 47 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

```

DIESEL SULFUR      : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

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AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS        :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS        :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

END OF RUN :

guillp1.IN

MOBILE6 INPUT FILE :

> Guilford County 2011 I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 48 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMF FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS      :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban collector mix and speeds

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VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban local mix and speeds

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VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
END OF RUN           :

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guillp1n.IN

MOBILE6 INPUT FILE :

> Guilford County 2011 NON-I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 48 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015

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0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
END OF RUN          :

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guillp2.IN

MOBILE6 INPUT FILE :

> Guilford County 2011 I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 48 Non-Ramp 100.0 0.0 0.0 0.0

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RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q2
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED     : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q2
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED     : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q2
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED     : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q2
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

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DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5

49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
END OF RUN :

guillp2n.IN

MOBILE6 INPUT FILE :

> Guilford County 2011 NON-I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 48 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS :

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0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
END OF RUN          :

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guillp3.IN

MOBILE6 INPUT FILE :

> Guilford County 2011 I&M PM2.5 REDESIGNATION Q3
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 48 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED     : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED     : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED     : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q3
CALENDAR YEAR     : 2011

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EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban interstate TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

```

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS        :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS        :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
END OF RUN          :

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guillp3n.IN

MOBILE6 INPUT FILE :

> Guilford County 2011 NON-I&M PM2.5 REDESIGNATION Q3
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 48 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban principle arterial TDM Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial TDM Q3
CALENDAR YEAR     : 2011

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EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

END OF RUN :

guillp4.IN

MOBILE6 INPUT FILE :

> Guilford County I&M PM2.5 REDESIGNATION (Run Yr + 1) 2011 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

```

AVERAGE SPEED      : 48 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4

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CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

```

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
END OF RUN          :

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guillp4n.IN

MOBILE6 INPUT FILE :

> Guilford County NON-I&M PM2.5 REDESIGNATION (Run Yr + 1) 2011 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 48 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS        :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS        :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0988 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

END OF RUN :

guil4p1.IN

MOBILE6 INPUT FILE :

> Guilford County 2014 I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q1
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED     : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q1
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED     : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q1
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED     : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q1
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```


> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                      51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                      51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                      51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                      51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4
```

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES      : 30
END OF RUN           :

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guil4pln.IN

MOBILE6 INPUT FILE :

> Guilford County 2014 NON-I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014

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0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector TDM Q1
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local TDM Q1
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
END OF RUN          :

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guil4p2.IN

MOBILE6 INPUT FILE :

> Guilford County 2014 I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q2
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED     : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q2
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED     : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q2
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED     : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q2
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

```


DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5

49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
END OF RUN :

guil4p2n.IN

MOBILE6 INPUT FILE :

> Guilford County 2014 NON-I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban interstate mix and speeds

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VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban principle arterial mix and speeds

```

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS :

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0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
END OF RUN          :

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guil4p3.IN

MOBILE6 INPUT FILE :

> Guilford County 2014 I&M PM2.5 REDESIGNATION Q3
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban interstate TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30
END OF RUN          :

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guil4p3n.IN

MOBILE6 INPUT FILE :

> Guilford County 2014 NON-I&M PM2.5 REDESIGNATION Q3
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban principle arterial TDM Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial TDM Q3
CALENDAR YEAR     : 2014

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EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

END OF RUN :

guil4p4.IN

MOBILE6 INPUT FILE :

> Guilford County I&M PM2.5 REDESIGNATION (Run Yr + 1) 2014 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

```

AVERAGE SPEED      : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

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PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban interstate TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban freeway TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban principle arterial TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

```

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS        :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS        :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
END OF RUN          :

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guil4p4n.IN

MOBILE6 INPUT FILE :

> Guilford County NON-I&M PM2.5 REDESIGNATION (Run Yr + 1) 2014 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

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DIESEL SULFUR      : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

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AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS        :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS        :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

END OF RUN :

guil7p1.IN

MOBILE6 INPUT FILE :

> Guilford County 2017 I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

```

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BAROMETRIC PRES      : 30
END OF RUN           :

```

guil7pln.IN

MOBILE6 INPUT FILE :

> Guilford County 2017 NON-I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015

```

0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    : 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
END OF RUN          :

```

guil7p2.IN

MOBILE6 INPUT FILE :

> Guilford County 2017 I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED     : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED     : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED     : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

```


PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
END OF RUN :

guil7p2n.IN

MOBILE6 INPUT FILE :

> Guilford County 2017 NON-I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

```

```

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

```

```

AVERAGE SPEED      : 50 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

```

```

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

```

```

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
END OF RUN          :

```

guil7p3.IN

MOBILE6 INPUT FILE :

> Guilford County 2017 I&M PM2.5 REDESIGNATION Q3
> Guilage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : guilage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q3
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30
***** SCENARIO SECTION *****
SCENARIO RECORD    : Rural major collector TDM Q3
CALENDAR YEAR      : 2017
EVALUATION MONTH   : 7
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.50
DIESEL SULFUR      : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30
***** SCENARIO SECTION *****
SCENARIO RECORD    : Rural minor collector TDM Q3
CALENDAR YEAR      : 2017
EVALUATION MONTH   : 7
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.50
DIESEL SULFUR      : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30
***** SCENARIO SECTION *****
SCENARIO RECORD    : Rural local TDM Q3
CALENDAR YEAR      : 2017
EVALUATION MONTH   : 7
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.50

```


DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial TDM Q3
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED     : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD    : Urban collector TDM Q3
CALENDAR YEAR      : 2017
EVALUATION MONTH   : 7
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.50
DIESEL SULFUR      : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED     : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD    : Urban local TDM Q3
CALENDAR YEAR      : 2017
EVALUATION MONTH   : 7
PARTICULATE EF     : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE      : 2.50
DIESEL SULFUR      : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED     : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30
END OF RUN         :

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guil7p3n.IN

MOBILE6 INPUT FILE :

> Guilford County 2017 NON-I&M PM2.5 REDESIGNATION Q3
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q3
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway TDM Q3
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban principle arterial TDM Q3
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial TDM Q3
CALENDAR YEAR     : 2017

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EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

END OF RUN :

guil7p4.IN

MOBILE6 INPUT FILE :

> Guilford County I&M PM2.5 REDESIGNATION (Run Yr + 1) 2017 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

```

AVERAGE SPEED      : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS        :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS        :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS        :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

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> Rural local mix and speeds

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VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban interstate TDM Q4
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway TDM Q4
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principle arterial TDM Q4
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :

```

```

0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
END OF RUN          :

```

guil7p4n.IN

MOBILE6 INPUT FILE :

> Guilford County NON-I&M PM2.5 REDESIGNATION (Run Yr + 1) 2017 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

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DIESEL SULFUR      : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 47 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

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AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS        :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 50 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS        :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

END OF RUN :

gui21p1.IN

MOBILE6 INPUT FILE :

> Guilford County 2021 I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMF FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMF FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0

51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial TDM Q1
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
 0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
 0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector TDM Q1
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
 0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
 0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local TDM Q1
 CALENDAR YEAR : 2021
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
 0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
 0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
 51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
 END OF RUN :

gui21p1n.IN

MOBILE6 INPUT FILE :

> Guilford County 2021 NON-I&M PM2.5 REDESIGNATION Q1
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
SPREADSHEET : Guilford County
PARTICULATES :
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 37.5 37.1 37.9 41.5 44.8 47.5 49.7 51.4 52.7 53.6 53.6 52.4
50.3 48.2 46.3 45.0 43.9 42.9 42.3 41.3 40.4 39.7 39.1 38.1

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                    51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS :

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```

0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.5 75.1 74.9 67.8 59.9 55.7 52.1 49.5 47.7 46.6 45.8 48.0
                     51.9 56.6 58.6 61.2 63.4 65.0 66.0 67.0 68.0 68.8 70.3 72.4

BAROMETRIC PRES     : 30
END OF RUN          :

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gui21p2.IN

MOBILE6 INPUT FILE :

> Guilford County 2021 I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED     : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED     : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED     : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                    49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

```


DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5

49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
END OF RUN :

gui21p2n.IN

MOBILE6 INPUT FILE :

> Guilford County 2021 NON-I&M PM2.5 REDESIGNATION Q2
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.1

HOURLY TEMPERATURES: 58.6 61.1 64.5 67.6 70.1 72.8 74.6 75.7 76.5 77.1 76.8 75.9
74.2 71.6 69.2 67.5 65.8 64.7 63.7 62.2 61.2 60.2 59.3 58.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                   49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial TDM Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS :

```

```

0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 82.0 79.1 71.1 63.6 58.4 53.0 49.5 46.8 45.3 44.3 45.4 46.5
                     49.5 54.7 59.4 62.9 66.8 69.6 70.3 72.7 75.5 77.9 80.4 81.7

BAROMETRIC PRES     : 30
END OF RUN          :

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gui21p3.IN

MOBILE6 INPUT FILE :

> Guilford County 2021 I&M PM2.5 REDESIGNATION Q3
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial TDM Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector TDM Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector TDM Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q3

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CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

```

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                     63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES     : 30
END OF RUN          :

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gui21p3n.IN

MOBILE6 INPUT FILE :

> Guilford County 2021 NON-I&M PM2.5 REDESIGNATION Q3
> Guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 7.8

HOURLY TEMPERATURES: 68.2 69.7 72.3 75.0 77.5 79.6 81.2 82.2 83.0 83.1 82.6 81.6
79.9 77.2 74.7 73.3 72.2 72.3 71.2 70.8 70.1 69.4 68.7 68.3

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural major collector TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor collector TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 45 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES   : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate TDM Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway TDM Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban principle arterial TDM Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS      :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
                   63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES    : 30

***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial TDM Q3
CALENDAR YEAR     : 2021

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EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.8 84.8 79.3 73.9 68.3 64.3 60.7 59.3 57.6 56.8 57.6 59.5
63.2 69.1 73.6 76.4 77.6 78.6 80.1 81.4 82.3 83.5 84.9 86.6

BAROMETRIC PRES : 30

END OF RUN :

gui21p4.IN

MOBILE6 INPUT FILE :

> Guilford County I&M PM2.5 REDESIGNATION (Run Yr + 1) 2020 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

I/M PROGRAM : 1 2003 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2003 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

```

AVERAGE SPEED      : 49 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS        :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS        :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS        :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6
BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local TDM Q4
CALENDAR YEAR     : 2022
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

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> Rural local mix and speeds

```

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban interstate TDM Q4
CALENDAR YEAR       : 2022
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

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> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway TDM Q4
CALENDAR YEAR       : 2022
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principle arterial TDM Q4
CALENDAR YEAR       : 2022
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban principle arterial mix and speeds

```

VMT FRACTIONS      :

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```

0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30
END OF RUN          :

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gui21p4n.IN

MOBILE6 INPUT FILE :

> Guilford County NON-I&M PM2.5 REDESIGNATION (Run Yr + 1) 2021 Q4
> guiage07 Veh Age Dist.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Guilford County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14.0

HOURLY TEMPERATURES: 44.1 44.0 44.7 47.5 50.0 52.2 53.8 55.0 55.6 55.9 55.2 53.7
51.5 50.6 48.7 48.3 47.7 47.4 46.3 46.0 45.6 45.2 44.9 44.5

REG DIST : guiage07.prn

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 49 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

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DIESEL SULFUR      : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 46 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                     70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

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AVERAGE SPEED      : 45 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS        :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS        :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 51 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban principle arterial TDM Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principle arterial mix and speeds

VMT FRACTIONS        :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
                    : 70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES     : 30

***** SCENARIO SECTION *****

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SCENARIO RECORD : Urban minor arterial TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local TDM Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.1 84.6 84.1 79.4 73.9 69.0 64.8 62.9 62.0 61.6 63.0 66.3
70.8 74.4 76.1 78.0 78.6 80.5 80.7 81.2 82.1 82.3 82.7 83.6

BAROMETRIC PRES : 30

END OF RUN :

cat08p1.IN

MOBILE6 INPUT FILE :

> Catawba County 2008 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

```

AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
> Rural major collector mix and speeds

VMT FRACTIONS       :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50

```


DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMF FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban other principal arterial mix and speeds

VMF FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6

50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector- Catawba County-Rural-Q1
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                    : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural local- Catawba County-Rural-Q1
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                    : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban interstate- Catawba County-Rural-Q1
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                    : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway- Catawba County-Rural-Q1
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031

```

```

0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principal arterial-Catawba County-Rural-Q1
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

> Urban principal arterial mix and speeds

VMT FRACTIONS       :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR       : 2008

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EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
END OF RUN :

cat08pln.IN

MOBILE6 INPUT FILE :

> Catawba County 2008 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-TDM-Q1

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CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2008
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

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AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

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PARTICLE SIZE      : 2.50
DIESEL SULFUR      : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS      :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6

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50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local- Catawba County-Rural-Q1
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
 0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056
 AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0
 RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q1
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
 0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052
 AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0
 RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q1
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
 0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
 0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055
 AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0
 RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban principal arterial-Catawba County-Rural-Q1
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban principal arterial mix and speeds

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VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
END OF RUN          :

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cat08p2.IN

MOBILE6 INPUT FILE :

> Catawba County 2008 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

```

AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principle arterial-Catawba County-TDM-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principle arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0


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RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED     : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED     : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED     : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

```

DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2

51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
 0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local- Catawba County-Rural-Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
 0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
 0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q2
 CALENDAR YEAR : 2008
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED       : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
END OF RUN           :

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cat08p2n.IN

MOBILE6 INPUT FILE :

> Catawba County 2008 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate- Catawba County-TDM-Q2
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

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> Urban interstate mix and speeds

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VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway- Catawba County-TDM-Q2
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban principle arterial-Catawba County-TDM-Q2
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

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> Urban principle arterial mix and speeds

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VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS      :

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0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q2

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CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q2
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30

END OF RUN :

cat08p3.IN

MOBILE6 INPUT FILE :

> Catawba County 2008 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural othe principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

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AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0


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RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED     : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector- Catawba County-TDM-Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED     : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-TDM-Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED     : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural interstate- Catawba County-Rural-Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

```

DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMF FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMF FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6

60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
END OF RUN          :

```

cat08p3n.IN

MOBILE6 INPUT FILE :

> Catawba County 2008 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

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> Urban interstate mix and speeds

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VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

```

> Urban other principal arterial mix and speeds

```

VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR       : 2008
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 43.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS      :

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0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q3

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CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR        : 2008
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q3
CALENDAR YEAR : 2008
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

END OF RUN :

cat08p4.IN

MOBILE6 INPUT FILE :

> Catawba County 2008 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :

```

0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q4

```

CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0
 RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q4
 CALENDAR YEAR : 2009
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
 0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
 0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0
 RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector- Catawba County-TDM-Q4
 CALENDAR YEAR : 2009
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
 0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
 0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0
 RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local- Catawba County-TDM-Q4
 CALENDAR YEAR : 2009
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 43.00

> Urban local mix and speeds

VMT FRACTIONS :
 0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
 0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0
 RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principal arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS :

```

0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS       :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Rural local mix and speeds

```

VMT FRACTIONS       :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS       :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q4

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CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principal arterial-Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principal arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

```

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
END OF RUN          :

```

cat08p4n.IN

MOBILE6 INPUT FILE :

> Catawba County 2008 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

ANTI-TAMP PROG :
91 74 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED : 64 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00
```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED      : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban other principal arterial mix and speeds

```

VMT FRACTIONS      :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban minor arterial mix and speeds


```

VMT FRACTIONS      :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2009
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 43.00

```

> Rural interstate mix and speeds

```

VMT FRACTIONS      :
0.3151 0.0700 0.2331 0.0718 0.0330 0.0876 0.0086 0.0070
0.0054 0.0196 0.0230 0.0251 0.0896 0.0045 0.0020 0.0046

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

```

```

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural principal arterial- Catawba County-Rural-Q4
CALENDAR YEAR     : 2009
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS      :
0.3725 0.0828 0.2756 0.0849 0.0390 0.0449 0.0044 0.0036
0.0028 0.0101 0.0118 0.0129 0.0460 0.0023 0.0010 0.0054

AVERAGE SPEED     : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR     : 2009
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3791 0.0843 0.2806 0.0865 0.0397 0.0399 0.0039 0.0032
0.0025 0.0090 0.0105 0.0114 0.0409 0.0021 0.0009 0.0055

AVERAGE SPEED     : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR     : 2009
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.4001 0.0889 0.2961 0.0912 0.0419 0.0244 0.0024 0.0019
0.0015 0.0055 0.0064 0.0070 0.0250 0.0013 0.0006 0.0058

AVERAGE SPEED     : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR     : 2009
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 43.00

```

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3982 0.0885 0.2945 0.0908 0.0417 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0006 0.0058

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3852 0.0856 0.2851 0.0878 0.0404 0.0355 0.0035 0.0028
0.0022 0.0080 0.0093 0.0101 0.0363 0.0018 0.0008 0.0056

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3568 0.0793 0.2639 0.0813 0.0374 0.0566 0.0055 0.0045
0.0035 0.0127 0.0149 0.0162 0.0580 0.0029 0.0013 0.0052

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3811 0.0847 0.2821 0.0869 0.0399 0.0385 0.0038 0.0031
0.0024 0.0086 0.0101 0.0110 0.0394 0.0020 0.0009 0.0055

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban principal arterial-Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban principal arterial mix and speeds

VMT FRACTIONS :
0.3982 0.0884 0.2945 0.0907 0.0417 0.0260 0.0026 0.0021
0.0016 0.0058 0.0068 0.0074 0.0266 0.0013 0.0006 0.0057

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.4091 0.0909 0.3028 0.0933 0.0429 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0059

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.4125 0.0917 0.3053 0.0941 0.0432 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0060

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q4
CALENDAR YEAR : 2009
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 43.00

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3978 0.0884 0.2944 0.0907 0.0417 0.0261 0.0026 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0006 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES      : 30
END OF RUN           :

```

cat11p1.IN

MOBILE6 INPUT FILE :

> Catawba County 2011 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

```

AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50

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DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6

50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q1
CALENDAR YEAR   : 2011
EVALUATION MONTH : 1
PARTICULATE EF  : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE   : 2.50
DIESEL SULFUR   : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                    50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q1
CALENDAR YEAR   : 2011
EVALUATION MONTH : 1
PARTICULATE EF  : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE   : 2.50
DIESEL SULFUR   : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                    50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q1
CALENDAR YEAR   : 2011
EVALUATION MONTH : 1
PARTICULATE EF  : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE   : 2.50
DIESEL SULFUR   : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                    50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q1
CALENDAR YEAR   : 2011
EVALUATION MONTH : 1
PARTICULATE EF  : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE   : 2.50
DIESEL SULFUR   : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032

```

```

0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS       :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR        : 2011

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EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
END OF RUN :

catllp1n.IN

MOBILE6 INPUT FILE :

> Catawba County 2011 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-TDM-Q1
CALENDAR YEAR        : 2011

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EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMF FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0


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RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                   50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector- Catawba County-TDM-Q1
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED     : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                   50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-TDM-Q1
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED     : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                   50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural interstate- Catawba County-Rural-Q1
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED     : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                   50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural other principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q1
CALENDAR YEAR : 2011
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021

```

0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
END OF RUN          :

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cat11p2.IN

MOBILE6 INPUT FILE :

> Catawba County 2011 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

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AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS        :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS        :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS        :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50


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DIESEL SULFUR      : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS      :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2

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51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
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> Urban othr principal arterial mix and speeds

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VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4
```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
END OF RUN          :

```

cat11p2n.IN

MOBILE6 INPUT FILE :

> Catawba County 2011 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban interstate mix and speeds

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VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban other principal arterial mix and speeds

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VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS :

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0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q2

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CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q2
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q2
CALENDAR YEAR        : 2011

```

EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban othr principal arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30

END OF RUN :

catllp3.IN

MOBILE6 INPUT FILE :

> Catawba County 2011 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

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AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED     : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector- Catawba County-TDM-Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED     : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-TDM-Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED     : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural interstate- Catawba County-Rural-Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

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DIESEL SULFUR      : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS      :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6

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60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban local mix and speeds

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VMT FRACTIONS      :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

```

```

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

```

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RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
END OF RUN           :

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catllp3n.IN

MOBILE6 INPUT FILE :

> Catawba County 2011 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

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> Urban interstate mix and speeds

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VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

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> Urban other principal arterial mix and speeds

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VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR       : 2011
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS      :

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0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q3

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CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR        : 2011
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q3
CALENDAR YEAR : 2011
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

END OF RUN :

cat11p4.IN

MOBILE6 INPUT FILE :

> Catawba County 2011 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

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VMT FRACTIONS      :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q4

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CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

```

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 37 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q4

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CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020

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0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR       : 2012
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural local- Catawba County-Rural-Q4
CALENDAR YEAR       : 2012
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban interstate- Catawba County-Rural-Q4
CALENDAR YEAR       : 2012
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway- Catawba County-Rural-Q4
CALENDAR YEAR       : 2012

```

EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

```

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
END OF RUN          :

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catllp4n.IN

MOBILE6 INPUT FILE :

> Catawba County 2011 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

ANTI-TAMP PROG :
91 77 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2012
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

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DIESEL SULFUR      : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban interstate mix and speeds

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VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 59 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban other principal arterial mix and speeds

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VMT FRACTIONS      :
0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban minor arterial mix and speeds

VMT FRACTIONS :
 0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
 0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

 AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

 RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector- Catawba County-TDM-Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
 0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
 0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

 AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

 RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local- Catawba County-TDM-Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
 0.3585 0.0952 0.3169 0.0977 0.0450 0.0261 0.0025 0.0021
 0.0016 0.0058 0.0069 0.0075 0.0267 0.0013 0.0007 0.0055

 AVERAGE SPEED : 37 Arterial 0.0 100.0 0.0 0.0

 RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

 BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
 0.2841 0.0754 0.2509 0.0773 0.0356 0.0875 0.0085 0.0072
 0.0054 0.0195 0.0231 0.0251 0.0893 0.0045 0.0022 0.0044

 AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

 RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4


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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Rural other principal arterial mix and speeds

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VMT FRACTIONS      :
0.3355 0.0892 0.2967 0.0914 0.0421 0.0449 0.0044 0.0037
0.0028 0.0100 0.0119 0.0129 0.0458 0.0023 0.0012 0.0052

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3416 0.0908 0.3021 0.0931 0.0429 0.0399 0.0039 0.0033
0.0025 0.0089 0.0105 0.0115 0.0407 0.0020 0.0010 0.0053

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3605 0.0958 0.3188 0.0982 0.0452 0.0244 0.0024 0.0020
0.0015 0.0054 0.0064 0.0070 0.0249 0.0013 0.0006 0.0056

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.3588 0.0953 0.3171 0.0977 0.0450 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3470 0.0922 0.3069 0.0946 0.0435 0.0354 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0362 0.0018 0.0009 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.3213 0.0854 0.2842 0.0876 0.0403 0.0566 0.0055 0.0046
0.0035 0.0126 0.0149 0.0163 0.0578 0.0029 0.0015 0.0050

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q4
CALENDAR YEAR        : 2012
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3432 0.0913 0.3037 0.0936 0.0431 0.0385 0.0037 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0020 0.0010 0.0053

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
```

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
 0.3585 0.0953 0.3170 0.0977 0.0450 0.0260 0.0025 0.0021
 0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0055

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
 0.3686 0.0980 0.3259 0.1004 0.0462 0.0177 0.0017 0.0015
 0.0011 0.0039 0.0047 0.0051 0.0181 0.0009 0.0005 0.0057

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector- Catawba County-Rural-Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
 0.3716 0.0988 0.3287 0.1013 0.0466 0.0152 0.0015 0.0012
 0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0057

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local- Catawba County-Rural-Q4
 CALENDAR YEAR : 2012
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3585  0.0952  0.3169  0.0977  0.0450  0.0261  0.0025  0.0021
0.0016  0.0058  0.0069  0.0075  0.0267  0.0013  0.0007  0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES      : 30
END OF RUN           :

```

cat14p1.IN

MOBILE6 INPUT FILE :

> Catawba County 2014 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

```

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50

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DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban collector mix and speeds

```

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban local mix and speeds

```

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural interstate mix and speeds


```

VMT FRACTIONS      :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS      :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q1
CALENDAR YEAR   : 2014
EVALUATION MONTH : 1
PARTICULATE EF  : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE   : 2.50
DIESEL SULFUR   : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                    50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q1
CALENDAR YEAR   : 2014
EVALUATION MONTH : 1
PARTICULATE EF  : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE   : 2.50
DIESEL SULFUR   : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                    50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q1
CALENDAR YEAR   : 2014
EVALUATION MONTH : 1
PARTICULATE EF  : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE   : 2.50
DIESEL SULFUR   : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                    50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q1
CALENDAR YEAR   : 2014
EVALUATION MONTH : 1
PARTICULATE EF  : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE   : 2.50
DIESEL SULFUR   : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031

```

```

0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS       :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR        : 2014

```

EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
END OF RUN :

cat14pln.IN

MOBILE6 INPUT FILE :

> Catawba County 2014 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
SCENARIO RECORD      : Urban interstate- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014

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EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMF FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

```

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

```


PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMF FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR : 2014
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
END OF RUN :

cat14p2.IN

MOBILE6 INPUT FILE :

> Catawba County 2014 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

```

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

```

DIESEL SULFUR      : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS      :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2

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51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
 0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local- Catawba County-Rural-Q2
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
 0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q2
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
 0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q2
 CALENDAR YEAR : 2014
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED       : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
END OF RUN           :

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cat14p2n.IN

MOBILE6 INPUT FILE :

> Catawba County 2014 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban interstate mix and speeds

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VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban other principal arterial mix and speeds

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VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS :

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0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q2

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CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054


```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q2
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7

```

PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30

END OF RUN :

cat14p3.IN

MOBILE6 INPUT FILE :

> Catawba County 2014 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

```

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector- Catawba County-TDM-Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-TDM-Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural interstate- Catawba County-Rural-Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

```

DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMF FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMF FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6

60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED        : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                       60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES      : 30
END OF RUN           :

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cat14p3n.IN

MOBILE6 INPUT FILE :

> Catawba County 2014 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

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> Urban interstate mix and speeds

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VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

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> Urban other principal arterial mix and speeds

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VMT FRACTIONS      :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR       : 2014
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS      :

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0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q3

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CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054


```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR        : 2014
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q3
CALENDAR YEAR : 2014
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

END OF RUN :

cat14p4.IN

MOBILE6 INPUT FILE :

> Catawba County 2014 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

```

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1

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PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055


```

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

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PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-Rural-Q4
CALENDAR YEAR     : 2015
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED     : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES    : 30
END OF RUN         :

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cat14p4n.IN

MOBILE6 INPUT FILE :

> Catawba County 2014 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

ANTI-TAMP PROG :
91 80 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED : 62 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30

SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014

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0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021
0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED      : 36 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2606 0.0794 0.2643 0.0814 0.0374 0.0875 0.0085 0.0072
0.0054 0.0197 0.0230 0.0251 0.0895 0.0045 0.0022 0.0043

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Rural other principal arterial mix and speeds

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VMT FRACTIONS :
0.3079 0.0939 0.3126 0.0963 0.0443 0.0449 0.0044 0.0037
0.0028 0.0101 0.0118 0.0129 0.0459 0.0023 0.0011 0.0051

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS :
0.3137 0.0956 0.3182 0.0980 0.0451 0.0399 0.0039 0.0033
0.0024 0.0090 0.0105 0.0114 0.0408 0.0020 0.0010 0.0052

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural major collector mix and speeds

```

VMT FRACTIONS :
0.3309 0.1009 0.3358 0.1034 0.0476 0.0244 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0055

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

```

```

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural minor collector mix and speeds


```

VMT FRACTIONS      :
0.3294 0.1004 0.3340 0.1029 0.0473 0.0259 0.0025 0.0021
0.0016 0.0058 0.0068 0.0074 0.0265 0.0013 0.0007 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.3186 0.0972 0.3233 0.0996 0.0458 0.0354 0.0034 0.0029
0.0022 0.0080 0.0093 0.0101 0.0362 0.0018 0.0009 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2950 0.0900 0.2993 0.0922 0.0424 0.0566 0.0055 0.0046
0.0035 0.0127 0.0149 0.0162 0.0579 0.0029 0.0014 0.0049

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q4
CALENDAR YEAR        : 2015
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.3154 0.0961 0.3199 0.0985 0.0453 0.0384 0.0037 0.0031
0.0024 0.0086 0.0101 0.0110 0.0393 0.0020 0.0010 0.0052

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMF FRACTIONS :
0.3292 0.1004 0.3339 0.1029 0.0473 0.0260 0.0025 0.0021
0.0016 0.0059 0.0068 0.0074 0.0266 0.0013 0.0007 0.0054

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3383 0.1032 0.3433 0.1058 0.0486 0.0177 0.0017 0.0014
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0056

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3413 0.1040 0.3462 0.1067 0.0490 0.0152 0.0015 0.0012
0.0009 0.0034 0.0040 0.0043 0.0155 0.0008 0.0004 0.0056

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q4
CALENDAR YEAR : 2015
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.3291 0.1003 0.3338 0.1028 0.0473 0.0261 0.0025 0.0021

0.0016 0.0059 0.0069 0.0075 0.0267 0.0013 0.0007 0.0054

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30

END OF RUN :

cat17p1.IN

MOBILE6 INPUT FILE :

> Catawba County 2017 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

```

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

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PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q1
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
 0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
 0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban collector- Catawba County-TDM-Q1
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
 0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
 0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban local- Catawba County-TDM-Q1
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
 0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
 0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q1
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

```

VMT FRACTIONS      :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                      : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural other principal arterial mix and speeds

```

VMT FRACTIONS      :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                      : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                      : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                      : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5
```


BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q1
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
 0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local- Catawba County-Rural-Q1
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
 0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q1
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
 0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q1
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban principal arterial mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
END OF RUN :

cat17pln.IN

MOBILE6 INPUT FILE :

> Catawba County 2017 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015

```

0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector- Catawba County-TDM-Q1
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local- Catawba County-TDM-Q1
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural interstate- Catawba County-Rural-Q1
CALENDAR YEAR       : 2017
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Rural other principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR       : 2017

```

EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053


```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q1
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50

```

DIESEL SULFUR : 11.00

> Urban principal arterial mix and speeds

VMF FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR : 2017
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6

50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
END OF RUN :

cat17p2.IN

MOBILE6 INPUT FILE :

> Catawba County 2017 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

```

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7

```

PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                    51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED     : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                    51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED     : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                    51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED     : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                    51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

```

DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2

51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
 0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
 0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Rural local- Catawba County-Rural-Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
 0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
 0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
 0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

```
VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban other principal arterial mix and speeds

```
VMT FRACTIONS      :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban minor arterial mix and speeds

```
VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban collector mix and speeds

```
VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4
```

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED       : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                      : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
END OF RUN           :

```

cat17p2n.IN

MOBILE6 INPUT FILE :

> Catawba County 2017 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
 0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
 0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
 0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
 0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
 0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q2
 CALENDAR YEAR : 2017
 EVALUATION MONTH : 7
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :

```

0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q2

```

CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053


```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q2
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4
BAROMETRIC PRES : 30
END OF RUN :

cat17p3.IN

MOBILE6 INPUT FILE :

> Catawba County 2017 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

```

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7

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PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED     : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector- Catawba County-TDM-Q3
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED     : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-TDM-Q3
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED     : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural interstate- Catawba County-Rural-Q3
CALENDAR YEAR     : 2017
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

```

PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMF FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMF FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principal arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED        : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                       : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES      : 30
END OF RUN           :

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cat17p3n.IN

MOBILE6 INPUT FILE :

> Catawba County 2017 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban other principal arterial mix and speeds

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VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                   60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS :

```

0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector- Catawba County-TDM-Q3

CALENDAR YEAR : 2017

EVALUATION MONTH : 7

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :

0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local- Catawba County-TDM-Q3

CALENDAR YEAR : 2017

EVALUATION MONTH : 7

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :

0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q3

CALENDAR YEAR : 2017

EVALUATION MONTH : 7

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :

0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022


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0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR        : 2017
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR        : 2017

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EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principal arterial mix and speeds

VMF FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMF FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMF FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q3
CALENDAR YEAR : 2017
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

END OF RUN :

cat17p4.IN

MOBILE6 INPUT FILE :

> Catawba County 2017 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

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VMT FRACTIONS      :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED      : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local- Catawba County-TDM-Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban interstate- Catawba County-TDM-Q4
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway- Catawba County-TDM-Q4
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED      : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban other principal arterial-Catawba County-TDM-Q4
CALENDAR YEAR       : 2018
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

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> Urban other principal arterial mix and speeds

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VMT FRACTIONS      :

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0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

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SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds


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VMT FRACTIONS      :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q4

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CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

```

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
END OF RUN          :

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cat17p4n.IN

MOBILE6 INPUT FILE :

> Catawba County 2017 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

ANTI-TAMP PROG :
91 83 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED : 60 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 58 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 39 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-TDM-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMF FRACTIONS :
0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

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RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate- Catawba County-TDM-Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED     : 55 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway- Catawba County-TDM-Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS      :
0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED     : 45 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban other principal arterial-Catawba County-TDM-Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS      :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED     : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR     : 2018
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

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> Urban minor arterial mix and speeds

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VMT FRACTIONS      :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban collector mix and speeds

```
VMT FRACTIONS      :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban local mix and speeds

```
VMT FRACTIONS      :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 35 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2018
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural interstate mix and speeds

```
VMT FRACTIONS      :
0.2439 0.0822 0.2739 0.0844 0.0388 0.0873 0.0087 0.0073
0.0053 0.0196 0.0232 0.0252 0.0893 0.0045 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0
```

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural principle arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principle arterial mix and speeds

VMT FRACTIONS :
0.2884 0.0972 0.3238 0.0998 0.0459 0.0448 0.0045 0.0038
0.0027 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2937 0.0990 0.3297 0.1016 0.0467 0.0398 0.0040 0.0033
0.0024 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.3100 0.1044 0.3479 0.1072 0.0493 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :

0.3083 0.1039 0.3461 0.1066 0.0490 0.0258 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural local- Catawba County-Rural-Q4

CALENDAR YEAR : 2018

EVALUATION MONTH : 1

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :

0.2984 0.1006 0.3349 0.1032 0.0474 0.0353 0.0035 0.0030
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q4

CALENDAR YEAR : 2018

EVALUATION MONTH : 1

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :

0.2763 0.0931 0.3101 0.0955 0.0439 0.0564 0.0056 0.0048
0.0035 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q4

CALENDAR YEAR : 2018

EVALUATION MONTH : 1

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :

0.2953 0.0995 0.3314 0.1021 0.0469 0.0383 0.0038 0.0032
0.0023 0.0086 0.0102 0.0111 0.0392 0.0020 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.3083 0.1039 0.3459 0.1066 0.0490 0.0259 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3167 0.1068 0.3557 0.1096 0.0504 0.0176 0.0018 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0005 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3195 0.1077 0.3587 0.1105 0.0508 0.0151 0.0015 0.0013
0.0009 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q4
CALENDAR YEAR : 2018
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMF FRACTIONS :
0.3083 0.1038 0.3458 0.1066 0.0490 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
END OF RUN :

cat21p1.IN

MOBILE6 INPUT FILE :

> Catawba County 2021 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

```

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
> Rural major collector mix and speeds

VMT FRACTIONS       :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50

```

DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6

50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30


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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q1
CALENDAR YEAR   : 2021
EVALUATION MONTH : 1
PARTICULATE EF   : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE    : 2.50
DIESEL SULFUR    : 11.00

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> Rural minor collector mix and speeds

```

VMT FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                   50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q1
CALENDAR YEAR   : 2021
EVALUATION MONTH : 1
PARTICULATE EF   : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE    : 2.50
DIESEL SULFUR    : 11.00

```

> Rural local mix and speeds

```

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                   50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q1
CALENDAR YEAR   : 2021
EVALUATION MONTH : 1
PARTICULATE EF   : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE    : 2.50
DIESEL SULFUR    : 11.00

```

> Urban interstate mix and speeds

```

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                   50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q1
CALENDAR YEAR   : 2021
EVALUATION MONTH : 1
PARTICULATE EF   : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE    : 2.50
DIESEL SULFUR    : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032

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0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban other principal arterial-Catawba County-Rural-Q1
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban principal arterial mix and speeds

VMT FRACTIONS       :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 1
PARTICULATE EF      : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     : 50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR       : 2021

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EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
END OF RUN :

cat21pln.IN

MOBILE6 INPUT FILE :

> Catawba County 2021 I/M,TDM/Rural, PM2.5 REDESIGNATION Q1
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 37.8 36.8 37.2 40.6 44.1 47.8 50.3 52.6 53.8 54.7 54.8 54.0
51.5 49.3 47.8 46.4 44.8 44.1 42.8 41.5 40.5 40.2 39.6 38.6

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-TDM-Q1

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CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

```

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                     50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1

```

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00
> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5
BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q1
CALENDAR YEAR : 2021
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban principal arterial mix and speeds

```
VMT FRACTIONS      :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                      50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban minor arterial mix and speeds

```
VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                      50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban collector mix and speeds

```
VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                      50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q1
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban local mix and speeds

```
VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 74.2 76.0 76.1 70.5 63.2 59.5 54.6 53.1 51.6 47.5 47.4 48.6
                      50.1 55.4 57.8 58.6 61.9 64.5 67.0 68.1 70.5 70.1 72.0 73.5
```

BAROMETRIC PRES : 30
END OF RUN :

cat21p2.IN

MOBILE6 INPUT FILE :

> Catawba County 2021 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

```

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7

```

PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                    51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED     : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                    51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED     : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                    51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED     : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                    51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50

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DIESEL SULFUR      : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS      :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2

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51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED        : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY     : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                       : 51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES      : 30
END OF RUN           :

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cat21p2n.IN

MOBILE6 INPUT FILE :

> Catawba County 2021 I/M,TDM/Rural, PM2.5 REDESIGNATION Q2
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 10.5

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 58.3 60.5 63.7 67.1 69.6 72.3 73.7 75.6 75.8 76.6 76.6 75.7
74.3 72.0 69.6 67.6 65.7 64.5 63.8 62.2 61.2 60.4 59.4 58.5

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural local- Catawba County-TDM-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMF FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban interstate mix and speeds

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VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban other principal arterial mix and speeds

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VMT FRACTIONS      :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

```

```

BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural other principal arterial mix and speeds

```

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural minor arterial mix and speeds

```

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

```

> Rural major collector mix and speeds

```

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                   51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

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BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

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> Rural minor collector mix and speeds

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VMT FRACTIONS :

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0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q2
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
                     51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q2

```

CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q2
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0
RELATIVE HUMIDITY : 86.3 82.7 74.8 66.5 60.0 55.2 52.3 49.1 48.5 47.6 48.3 49.2
51.0 55.6 60.5 64.7 68.4 71.9 74.7 76.4 79.5 81.8 83.4 84.4
BAROMETRIC PRES : 30
END OF RUN :

cat21p3.IN

MOBILE6 INPUT FILE :

> Catawba County 2021 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

```

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7

```

PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMT FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

```

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                    60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                    60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban collector- Catawba County-TDM-Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                    60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban local- Catawba County-TDM-Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                    60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural interstate- Catawba County-Rural-Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2


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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Rural minor collector mix and speeds

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VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Rural local mix and speeds

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VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban interstate mix and speeds

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VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     : 60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

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> Urban freeway mix and speeds

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VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS      :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q3

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CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
END OF RUN :

cat21p3n.IN

MOBILE6 INPUT FILE :

> Catawba County 2021 I/M,TDM/Rural, PM2.5 REDESIGNATION Q3
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 9.0

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 66.8 67.9 70.5 73.7 76.6 78.7 80.9 81.2 82.1 82.5 82.3 81.3
79.9 77.8 73.6 73.1 71.8 71.1 70.3 69.6 69.0 68.0 67.5 66.9

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****

SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

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VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30

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***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate- Catawba County-TDM-Q3
CALENDAR YEAR     : 2021
EVALUATION MONTH  : 7
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

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> Urban interstate mix and speeds

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VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

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BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban freeway- Catawba County-TDM-Q3
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban freeway mix and speeds

```

VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban other principal arterial-Catawba County-TDM-Q3
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban other principal arterial mix and speeds

```

VMT FRACTIONS      :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

```

```

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD     : Urban minor arterial- Catawba County-TDM-Q3
CALENDAR YEAR       : 2021
EVALUATION MONTH    : 7
PARTICULATE EF      : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE       : 2.50
DIESEL SULFUR       : 11.00

```

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :

```

```

0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q3
CALENDAR YEAR        : 2021
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS       :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021

```

EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMF FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q3
CALENDAR YEAR : 2021
EVALUATION MONTH : 7
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053


```

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
                     60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q3
CALENDAR YEAR        : 2021
EVALUATION MONTH     : 7
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50

```

DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :

0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q3

CALENDAR YEAR : 2021

EVALUATION MONTH : 7

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :

0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban collector- Catawba County-Rural-Q3

CALENDAR YEAR : 2021

EVALUATION MONTH : 7

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :

0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

***** SCENARIO SECTION *****

SCENARIO RECORD : Urban local- Catawba County-Rural-Q3

CALENDAR YEAR : 2021

EVALUATION MONTH : 7

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

PARTICLE SIZE : 2.50

DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :

0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 87.9 85.2 80.3 73.1 67.6 63.0 58.3 58.5 56.6 56.6 56.5 58.6
60.3 63.3 73.1 74.3 78.8 81.0 82.0 83.6 84.7 86.8 87.2 88.2

BAROMETRIC PRES : 30

END OF RUN :

cat21p4.IN

MOBILE6 INPUT FILE :

> Catawba County 2021 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

> OBDII

I/M PROGRAM : 1 2004 2050 1 TRC OBD I/M
I/M MODEL YEARS : 1 1996 2050
I/M VEHICLES : 1 22222 11111111 1
I/M STRINGENCY : 1 10.0
I/M COMPLIANCE : 1 95.0
I/M WAIVER RATES : 1 5.0 5.0

I/M PROGRAM : 2 2004 2050 1 TRC EVAP OBD
I/M MODEL YEARS : 2 1996 2050
I/M VEHICLES : 2 22222 11111111 1
I/M STRINGENCY : 2 10.0
I/M COMPLIANCE : 2 95.0
I/M WAIVER RATES : 2 5.0 5.0

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :

```

0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED      : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS       :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS       :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS       :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022

```

EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural local mix and speeds

VMF FRACTIONS :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMF FRACTIONS :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMF FRACTIONS :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMF FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

```

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS       :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS       :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS       :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV

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PARTICLE SIZE      : 2.50
DIESEL SULFUR     : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural other principal arterial- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS      :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED      : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural minor arterial mix and speeds

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural major collector mix and speeds

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 43 Arterial 0.0 100.0 0.0 0.0

```

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RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR     : 2022
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural minor collector mix and speeds

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Rural local- Catawba County-Rural-Q4
CALENDAR YEAR     : 2022
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Rural local mix and speeds

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban interstate- Catawba County-Rural-Q4
CALENDAR YEAR     : 2022
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS      :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                   67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES   : 30
***** SCENARIO SECTION *****
SCENARIO RECORD   : Urban freeway- Catawba County-Rural-Q4
CALENDAR YEAR     : 2022
EVALUATION MONTH  : 1
PARTICULATE EF    : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE     : 2.50
DIESEL SULFUR     : 11.00

```


> Urban freeway mix and speeds

```
VMT FRACTIONS      :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban other principal arterial mix and speeds

```
VMT FRACTIONS      :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED      : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban minor arterial mix and speeds

```
VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Urban collector mix and speeds

```
VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                    : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
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BAROMETRIC PRES      : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS        :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED       : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY    : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                      : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES      : 30
END OF RUN           :

```

cat21p4n.IN

MOBILE6 INPUT FILE :

> Catawba County 2021 I/M,TDM/Rural, PM2.5 REDESIGNATION Q4
> Updated with new vehicle-mix and vehicle-age Sept '08
> Updated with new TDM Speeds Sept 2009, from Pam Cook.

POLLUTANTS : NOX
PARTICULATES :
SPREADSHEET : Catawba County
RUN DATA :
***** RUN SECTION *****
FUEL RVP : 14

REG DIST : ncage07.prn

HOURLY TEMPERATURES: 43.3 43.3 43.5 46.3 49.2 51.6 53.5 54.7 55.6 56.0 54.0 55.8
51.7 50.5 49.1 47.8 47.3 46.2 45.7 45.7 44.9 44.6 44.0 43.7

ANTI-TAMP PROG :
91 87 50 22222 22222222 2 11 095. 22212222

***** SCENARIO SECTION *****
SCENARIO RECORD : Rural interstate- Catawba County-TDM-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural other principal arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMT FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 57 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-TDM-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

```

VMT FRACTIONS      :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED      : 38 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural major collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural major collector mix and speeds

```

VMT FRACTIONS      :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED      : 41 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural minor collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural minor collector mix and speeds

```

VMT FRACTIONS      :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022
0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 34 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDRL.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00
```

> Rural local mix and speeds

```

VMT FRACTIONS      :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 40 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
```

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban interstate- Catawba County-TDM-Q4
 CALENDAR YEAR : 2022
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS :
 0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
 0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED : 52 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban freeway- Catawba County-TDM-Q4
 CALENDAR YEAR : 2022
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS :
 0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
 0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED : 44 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban other principal arterial-Catawba County-TDM-Q4
 CALENDAR YEAR : 2022
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
 0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
 0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
 ***** SCENARIO SECTION *****
 SCENARIO RECORD : Urban minor arterial- Catawba County-TDM-Q4
 CALENDAR YEAR : 2022
 EVALUATION MONTH : 1
 PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
 PARTICLE SIZE : 2.50
 DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

```

VMT FRACTIONS      :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED      : 30 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban collector- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban collector mix and speeds

VMT FRACTIONS      :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED      : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban local- Catawba County-TDM-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban local mix and speeds

VMT FRACTIONS      :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED      : 33 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural interstate mix and speeds

VMT FRACTIONS      :
0.2319 0.0844 0.2808 0.0865 0.0398 0.0873 0.0086 0.0073
0.0055 0.0196 0.0231 0.0251 0.0893 0.0044 0.0022 0.0042

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****

```

SCENARIO RECORD : Rural other principal arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural other principal arterial mix and speeds

VMF FRACTIONS :
0.2740 0.0998 0.3320 0.1023 0.0471 0.0448 0.0044 0.0037
0.0028 0.0101 0.0119 0.0129 0.0458 0.0023 0.0011 0.0050

AVERAGE SPEED : 46 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor arterial mix and speeds

VMF FRACTIONS :
0.2790 0.1016 0.3380 0.1042 0.0479 0.0398 0.0039 0.0033
0.0025 0.0089 0.0106 0.0115 0.0407 0.0020 0.0010 0.0051

AVERAGE SPEED : 44 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural major collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural major collector mix and speeds

VMF FRACTIONS :
0.2944 0.1072 0.3567 0.1099 0.0506 0.0243 0.0024 0.0020
0.0015 0.0055 0.0064 0.0070 0.0249 0.0012 0.0006 0.0054

AVERAGE SPEED : 43 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Rural minor collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Rural minor collector mix and speeds

VMF FRACTIONS :
0.2929 0.1066 0.3548 0.1094 0.0503 0.0259 0.0025 0.0022

```

0.0016 0.0058 0.0069 0.0074 0.0264 0.0013 0.0007 0.0053

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Rural local- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Rural local mix and speeds

VMT FRACTIONS       :
0.2835 0.1032 0.3434 0.1058 0.0487 0.0353 0.0035 0.0029
0.0022 0.0079 0.0094 0.0102 0.0361 0.0018 0.0009 0.0052

AVERAGE SPEED      : 42 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban interstate- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban interstate mix and speeds

VMT FRACTIONS       :
0.2622 0.0956 0.3179 0.0980 0.0451 0.0565 0.0056 0.0047
0.0036 0.0127 0.0150 0.0163 0.0577 0.0029 0.0014 0.0048

AVERAGE SPEED      : 63 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban freeway- Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1
PARTICULATE EF       : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE        : 2.50
DIESEL SULFUR        : 11.00

> Urban freeway mix and speeds

VMT FRACTIONS       :
0.2804 0.1021 0.3398 0.1047 0.0482 0.0384 0.0038 0.0032
0.0024 0.0086 0.0102 0.0110 0.0392 0.0019 0.0010 0.0051

AVERAGE SPEED      : 56 Non-Ramp 100.0 0.0 0.0 0.0

RELATIVE HUMIDITY   : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
                     : 67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES     : 30
***** SCENARIO SECTION *****
SCENARIO RECORD      : Urban other principal arterial-Catawba County-Rural-Q4
CALENDAR YEAR        : 2022
EVALUATION MONTH     : 1

```


PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban other principal arterial mix and speeds

VMT FRACTIONS :
0.2927 0.1066 0.3547 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0058 0.0069 0.0075 0.0265 0.0013 0.0007 0.0053

AVERAGE SPEED : 29 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban minor arterial- Catawba County-Rural-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban minor arterial mix and speeds

VMT FRACTIONS :
0.3009 0.1096 0.3647 0.1124 0.0517 0.0177 0.0017 0.0015
0.0011 0.0040 0.0047 0.0051 0.0181 0.0009 0.0004 0.0055

AVERAGE SPEED : 32 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban collector- Catawba County-Rural-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban collector mix and speeds

VMT FRACTIONS :
0.3034 0.1105 0.3677 0.1133 0.0522 0.0151 0.0015 0.0013
0.0010 0.0034 0.0040 0.0044 0.0155 0.0008 0.0004 0.0055

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4

BAROMETRIC PRES : 30
***** SCENARIO SECTION *****
SCENARIO RECORD : Urban local- Catawba County-Rural-Q4
CALENDAR YEAR : 2022
EVALUATION MONTH : 1
PARTICULATE EF : PMGZML.CSV PMGDRI.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 11.00

> Urban local mix and speeds

VMT FRACTIONS :
0.2926 0.1066 0.3546 0.1093 0.0503 0.0260 0.0026 0.0022
0.0016 0.0059 0.0069 0.0075 0.0266 0.0013 0.0007 0.0053

AVERAGE SPEED : 31 Arterial 0.0 100.0 0.0 0.0

RELATIVE HUMIDITY : 85.7 86.0 85.4 79.8 73.6 67.7 63.8 61.5 59.4 57.9 58.8 62.2
67.1 70.6 73.1 74.2 76.9 80.8 81.7 82.3 83.4 84.4 84.9 85.4
BAROMETRIC PRES : 30
END OF RUN :

5.2 MOBILE6.2 OUTPUT FILES

```
DAV08P1.TXT
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: DAV08P1.IN (file 1, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
*
* # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q1
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.
M 96 Warning:      69.0    speed reduced to 65 mph maximum
M581 Warning:      The user supplied freeway average speed of 65.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the freeway roadway type for
                    all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
    data file: TECH12.D
M 48 Warning:      there are no sales for vehicle class HDGV8b
* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D
* Reading Ammonia (NH3) Sulfur Deterioration Rates
```

* from the external data file PMNH3SDR.D
M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0808	0.0003	0.0016	0.1916	0.0046	1.0000
Composite Emission Factors (g/ml):	0.887	1.453	1.526	1.471	4.297	1.507	1.644	15.341	2.59	4.178

* * * * *
* Rural minor arterial TDM Q1
* File 1, Run 1, Scenario 2.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3787	0.3648	0.1244		0.0369	0.0004	0.0019	0.0874	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.839	1.386	1.459	1.405	3.922	0.956	1.041	9.087	2.02	1.957

* * * * *
* Rural major collector TDM Q1
* File 1, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.813	1.351	1.424	1.370	3.706	0.830	0.903	7.899	1.86	1.551

* # # # # # # # # # # # # # # # # # #
* Rural minor collector TDM Q1
* File 1, Run 1, Scenario 4.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 49.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1306		0.0239	0.0004	0.0020	0.0566	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.832	1.377	1.450	1.395	3.865	0.914	0.995	8.690	1.96	1.646

* # # # # # # # # # # # # # # # #
* Rural local TDM Q1
* File 1, Run 1, Scenario 5.

```

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 49.0
                   will be used for all hours of the day. 100% of VMT
                   has been assigned to the arterial/collector roadway
                   type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b
M111 Warning:      The input diesel sulfur level of 43.0 ppm exceeds
                   the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.3848 0.3706 0.1263 0.0328 0.0004 0.0019 0.0775 0.0056 1.0000
-----

```


Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:	<6000	>6000	(All)							
-------	-------	-------	-------	--	--	--	--	--	--	--

VMT Distribution:	0.3564	0.3431	0.1170	0.0522	0.0004	0.0018	0.1239	0.0052	1.0000	
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--

Composite Emission Factors (g/mi):	0.887	1.453	1.526	1.471	4.297	1.507	1.644	15.347	2.59	3.136
------------------------------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

* * * * *
* Urban freeway TDM Q1
* File 1, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3807	0.3667	0.1250		0.0356	0.0004	0.0019	0.0842	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.860	1.415	1.487	1.433	4.084	1.131	1.233	11.783	2.27	2.185

* * * * *
 * Urban principle arterial TDM Q1
 * File 1, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.800	1.334	1.408	1.353	3.595	0.796	0.866	7.569	1.83	1.542

* * * * *
* Urban minor arterial TDM Q1
* File 1, Run 1, Scenario 9.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.803	1.337	1.411	1.356	3.620	0.800	0.870	7.606	1.84	1.411

* * * * *

* Urban collector TDM Q1

* File 1, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

GVWR:	0.4121	0.3969	0.1353	<6000	0.0140	0.0004	0.0021	0.0332	0.0060	1.0000
-------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.810	1.347	1.420	1.365	3.678	0.820	0.892	7.807	1.85	1.384
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban local TDM Q1

* File 1, Run 1, Scenario 11.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.822	1.364	1.437	1.382	3.784	0.865	0.941	8.221	1.90	1.611

* * * * *
 * Rural interstate Rural
 * File 1, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:

VMT Distribution:	0.3148	0.3030	0.1033	>6000	0.0808	0.0003	0.0016	0.1916	0.0046	1.0000
-------------------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.887	1.453	1.526	1.471	4.297	1.507	1.644	15.341	2.59	4.178
-----------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural principle arterial Rural
* File 1, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural other principle arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
HDGV HDVT LDDV LDDT HDDV MC All Veh

```

VTM Distribution:	0.3721	0.3583	0.1221	1.378	3.756	0.847	0.922	9.091	0.0054	1.87	1.0000
Composite Emission Factors (g/mi):											
Composite NOX :	0.819	1.359	1.432	1.378	3.756	0.847	0.922	9.091	0.0054	1.87	2.028

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural minor arterial Rural											
* File 1, Run 1, Scenario 14.											
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels											
* from the external data file PMGZML.CSV											
* Reading PM Gas Carbon DR1 Levels											
* from the external data file PMGDR1.CSV											
* Reading PM Gas Carbon DR2 Levels											
* from the external data file PMGDR2.CSV											
* Reading PM Diesel Zero Mile Levels											
* from the external data file PMDZML.CSV											
* Reading the First PM Deterioration Rates											
* from the external data file PMDDR1.CSV											
* Reading the Second PM Deterioration Rates											
* from the external data file PMDDR2.CSV											
* Rural minor arterial mix and speeds											
M615 Comment:	User supplied VMT mix.										
M583 Warning:	The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:	there are no sales for vehicle class HDGV8b										
M111 Warning:	The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2008											
Month: Jan.											
Altitude: Low											
Minimum Temperature: 37.1 (F)											
Maximum Temperature: 53.6 (F)											
Minimum Rel. Hum.: 45.8 (%)											
Maximum Rel. Hum.: 75.1 (%)											
Barometric Pressure: 30.00 (inches Hg)											
Nominal Fuel RVP: 14.0 psi											
Weathered RVP: 14.0 psi											
Fuel Sulfur Content: 30. ppm											

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							

VMT Distribution:	0.3787	0.3648	0.1244	0.0369	0.0004	0.0019	0.0874	0.0055	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite NOx : 0.816 1.355 1.428 1.374 3.733 0.839 0.913 7.976 1.87 1.828

* * * * *
 * Rural major collector Rural
 * File 1, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.813	1.351	1.424	1.370	3.706	0.830	0.903	7.899	1.86	1.551

* * * * *
* Rural minor collector Rural
* File 1, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:

The input dIesel sulfur level of 43.0 ppm exceeds

the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0239	0.0004	0.0020	0.0566	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.810	1.347	1.420	1.365	3.677	0.820	0.892	7.800	1.85	1.565

* * * * *
* Rural local Rural
* File 1, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3848	0.3706	0.1263		0.0328	0.0004	0.0019	0.0775	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.810	1.347	1.420	1.365	3.678	0.820	0.892	7.798	1.85	1.727

* # # # # # # # # # # # # # # # # # #

* Urban interstate Rural

* File 1, Run 1, Scenario 18.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 62.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0522	0.0004	0.0018	0.1239	0.0052	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.877	1.439	1.512	1.457	4.219	1.351	1.473	13.868	2.47	2.937

* * * * *

* Urban freeway Rural

* File 1, Run 1, Scenario 19.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX : 0.812 1.353 1.430 1.373 3.300 0.799 0.869 7.597 1.70 1.550

```

* * * * *
* Urban minor arterial Rural
* File 1, Run 1, Scenario 21.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 32.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 37.1 (F)
    Maximum Temperature: 53.6 (F)
    Minimum Rel. Hum.: 45.8 (%)
    Maximum Rel. Hum.: 75.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh

```

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.799 1.334 1.409 1.353 3.380 0.785 0.854 7.478 1.74 1.358

* * * * *
* Urban local Rural
* File 1, Run 1, Scenario 23.
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.799	1.334	1.409	1.353	3.379	0.785	0.854	7.466	1.74	1.532

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: DAV08PIN.IN (file 21, run 1).  
*****  
  
** Reading Registration Distributions from the following external  
** data file: NCAGE07.PRN  
  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
** Rural interstate TDM Q1  
** File 21, Run 1, Scenario 1.  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
** Reading PM Gas Carbon ZML Levels  
** from the external data file PMGZML.CSV  
  
** Reading PM Gas Carbon DR1 Levels  
** from the external data file PMGDR1.CSV  
  
** Reading PM Gas Carbon DR2 Levels  
** from the external data file PMGDR2.CSV  
  
** Reading PM Diesel Zero Mile Levels  
** from the external data file PMDZML.CSV  
  
** Reading the First PM Deterioration Rates  
** from the external data file PMDDR1.CSV  
  
** Reading the Second PM Deterioration Rates  
** from the external data file PMDDR2.CSV  
  
** Rural interstate mix and speeds  
M615 Comment: User supplied VMT mix.  
M 96 Warning: 69.0 speed reduced to 65 mph maximum  
M581 Warning:  
The user supplied freeway average speed of 65.0  
will be used for all hours of the day. 100% of VMT  
has been assigned to the freeway roadway type for  
all hours of the day and all vehicle types.  
M 48 Warning:  
there are no sales for vehicle class HDGV8b  
M111 Warning:  
The input diesel sulfur level of 43.0 ppm exceeds  
the 2007 HDD Rule diesel sulfur limit of 15 ppm.  
  
Calendar Year: 2008  
Month: Jan.  
Altitude: Low  
Minimum Temperature: 37.1 (F)  
Maximum Temperature: 53.6 (F)  
Minimum Rel. Hum.: 45.8 (%)  
Maximum Rel. Hum.: 75.1 (%)
```

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0808	0.0003	0.0016	0.1916	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.996	1.603	1.686	1.624	4.297	1.507	1.644	15.341	2.59	4.275

* * * * *
* Rural minor arterial TDM Q1
* File 21, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3787	0.3648	0.1244		0.0369	0.0004	0.0019	0.0874	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.945	1.534	1.618	1.555	3.922	0.956	1.041	9.087	2.02	2.071

* * * * *
* Rural major collector TDM Q1
* File 21, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/ml):	0.918	1.499	1.584	1.520	3.706	0.830	0.903	7.899	1.86	1.670

* * * * *
* Rural minor collector TDM Q1
* File 21, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0239	0.0004	0.0020	0.0566	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.938	1.525	1.609	1.546	3.865	0.914	0.995	8.690	1.96	1.765

* # # # # # # # # # # # # # # # # # # #

* Rural local TDM Q1

* File 21, Run 1, Scenario 5.

* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3848	0.3706	0.1263		0.0328	0.0004	0.0019	0.0775	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.938	1.525	1.609	1.546	3.866	0.914	0.995	8.687	1.96	1.943

* # # # # # # # # # # # # # # # # # #										
* Urban interstate TDM Q1										
* File 21, Run 1, Scenario 6.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0522	0.0004	0.0018	0.1239	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.996	1.603	1.686	1.624	4.297	1.507	1.644	15.347	2.59	3.245

```

* * * * *
* Urban freeway TDM Q1
* File 21, Run 1, Scenario 7.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 57.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
                Month: Jan.
                Altitude: Low
    Minimum Temperature: 37.1 (F)
    Maximum Temperature: 53.6 (F)
    Minimum Rel. Hum.: 45.8 (%)
    Maximum Rel. Hum.: 75.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

```

Vehicle Type: LDGV LDGT12 LDGT34 LDGT LDGV HDGV LDDV LDDT HDDV MC All Veh

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Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.905 1.482 1.569 1.504 3.595 0.796 0.866 7.569 1.83 1.661

* * * * *
* Urban minor arterial TDM Q1
* File 21, Run 1, Scenario 9.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.907	1.485	1.571	1.507	3.620	0.800	0.870	7.606	1.84	1.533

* * * * *
 * Urban collector TDM Q1
 * File 21, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.914	1.494	1.580	1.516	3.678	0.820	0.892	7.807	1.85	1.508

* * * * *
* Urban local TDM Q1
* File 21, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.928	1.512	1.596	1.533	3.784	0.865	0.941	8.221	1.90	1.730
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* *

* Rural interstate Rural

* File 21, Run 1, Scenario 12.

* *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3148	0.3030	0.1033		0.0808	0.0003	0.0016	0.1916	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.996	1.603	1.686	1.624	4.297	1.507	1.644	15.341	2.59	4.275

* * * * *
 * Rural principle arterial Rural
 * File 21, Run 1, Scenario 13.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

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* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3787	0.3648	0.1244		0.0369	0.0004	0.0019	0.0874	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.921	1.503	1.588	1.525	3.733	0.839	0.913	7.976	1.87	1.942

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Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVMR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3997	0.3849	0.1312	-----	0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.918	1.499	1.584	1.520	3.706	0.830	0.903	7.899	1.86	1.670

* * * * *
 * Rural minor collector Rural
 * File 21, Run 1, Scenario 16.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2008
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0239	0.0004	0.0020	0.0566	0.0058	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.914	1.494	1.580	1.516	3.677	0.820	0.892	7.800	1.85	1.685
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* * * * *
 * Rural local Rural
 * File 21, Run 1, Scenario 17.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3848	0.3706	0.1263		0.0328	0.0004	0.0019	0.0775	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.914	1.494	1.580	1.516	3.678	0.820	0.892	7.798	1.85	1.843

* * * * *
* Urban interstate Rural
* File 21, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3564	0.3431	0.1170		0.0522	0.0004	0.0018	0.1239	0.0052	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.986	1.589	1.672	1.610	4.219	1.351	1.473	13.868	2.47	3.046

* * * * *

* Urban freeway Rural

* File 21, Run 1, Scenario 19.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

ng: there are no sales for vehicle class HDGV8b

ng: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Normalat	Fact	RVP	14.0	psi
Weathered	RVP:	14.0	psi	

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap	I/M Program:	No
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

ATP Program:	Yes
ATP Program:	Yes

Reformulated Gas: No
 Air Program: No

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.3807	0.3667	0.1250	0.0356	0.0004	0.0019	0.0842	0.0055	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.963	1.559	1.641	1.580	4.056	1.093	1.191	11.422	2.23	2.265
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[illegible]

* Urban principle arterial Rural

* File 21, Run 1, Scenario 20.

[illegible]

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.csv

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.919	1.504	1.594	1.527	3.300	0.799	0.869	7.597	1.70	1.672

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban minor arterial Rural										
* File 21, Run 1, Scenario 21.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.902	1.479	1.568	1.502	3.409	0.784	0.853	7.458	1.76	1.518

* # # # # # # # # # # # # # # # #
* Urban collector Rural
* File 21, Run 1, Scenario 22.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTr12	LDGTr34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.904	1.483	1.572	1.505	3.380	0.785	0.854	7.478	1.74	1.482
* Urban local Rural										
* File 21, Run 1, Scenario 23.										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year:	2008									
Month:	Jan.									
Altitude:	Low									
Minimum Temperature:	37.1 (F)									
Maximum Temperature:	53.6 (F)									
Minimum Rel. Hum.:	45.8 (%)									
Maximum Rel. Hum.:	75.1 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	14.0 psi									
Weathered RVP:	14.0 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program:	No									
Evap I/M Program:	No									
ATP Program:	Yes									
Reformulated Gas:	No									

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3974	0.3827	0.1305	0.0241	0.0004	0.0020	0.0572	0.0057	1.0000	

Composite Emission Factors (g/mi):										
Composite NOx :	0.904	1.483	1.572	1.505	3.379	0.785	0.854	7.466	1.74	1.652

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Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.694	1.119	1.143	1.125	3.657	1.451	1.540	14.032	1.98	3.673

* * * * *
* Rural minor arterial TDM Q2
* File 2, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input dIesel sulfur level of 43.0 ppm exceeds

the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3787	0.3648	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.659	1.067	1.092	1.073	3.337	0.921	0.976	8.332	1.55	1.637

* * * * *
* Rural major collector TDM Q2
* File 2, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.640	1.039	1.066	1.046	3.154	0.800	0.847	7.240	1.43	1.264

* # # # # # # # # # # # # # # # # # #
* Rural minor collector TDM Q2
* File 2, Run 1, Scenario 4.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.654	1.060	1.085	1.066	3.289	0.881	0.933	7.967	1.50	1.348

* * * * *

* Rural local TDM Q2

* File 2, Run 1, Scenario 5.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGTL34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3564	0.3431	0.1170		0.0521	0.0004	0.0018	0.1240	0.0052	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.694	1.119	1.143	1.125	3.657	1.451	1.540	14.038	1.98	2.710
* Urban freeway TDM Q2										
* File 2, Run 1, Scenario 7.										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 57.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year:	2008									
Month:	July									
Altitude:	Low									
Minimum Temperature:	58.5 (F)									
Maximum Temperature:	77.1 (F)									
Minimum Rel. Hum.:	44.3 (%)									
Maximum Rel. Hum.:	82.0 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	10.1 psi									
Weathered RVP:	10.1 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program:	Yes									
Evap I/M Program:	Yes									
ATP Program:	Yes									
Reformulated Gas:	No									

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.674	1.089	1.114	1.095	3.476	1.090	1.156	10.761	1.74	1.838

```
* * # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
** Urban principle arterial TDM Q2
*   File 2, Run 1, Scenario 8.
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:

M593 Warning:
The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Mill Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)
Barometric pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.1 psi

Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VTM Distribution:	0.3978	0.3828	0.1305	0.0240	0.0004	0.0020	0.0568	0.0057	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.631	1.026	1.053	1.033	3.059	0.767	0.812	6.936	1.40	1.259

* * * * *
 * Urban minor arterial TDM Q2
 * File 2, Run 1, Scenario 9.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M111 Warning:

The input dIesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July

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The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of vehicles has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.637	1.036	1.062	1.042	3.130	0.790	0.837	7.156	1.42	1.110

* * * * *
* Urban local TDM Q2
* File 2, Run 1, Scenario 11.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.647	1.049	1.075	1.056	3.220	0.834	0.883	7.535	1.45	1.318

* * * * *
* Rural interstate Rural
* File 2, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3030	0.1033	0.0807	0.0003	0.0016	0.1917	0.0046	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.694	1.119	1.143	1.125	3.657	1.451	1.540	14.032	1.98	3.673

* # # # # # # # # # # # # # # # #
* Rural principle arterial Rural
* File 2, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008											
Month: July											
Altitude: Low											
Minimum Temperature: 58.5 (F)											
Maximum Temperature: 77.1 (F)											
Minimum Rel. Hum.: 44.3 (%)											
Maximum Rel. Hum.: 82.0 (%)											
Barometric Pressure: 30.00 (inches Hg)											
Nominal Fuel RVP: 10.1 psi											
Weathered RVP: 10.1 psi											
Fuel Sulfur Content: 30. ppm											
Exhaust I/M Program: Yes											
Evap I/M Program: Yes											
ATP Program: Yes											
Reformulated Gas: No											
Vehicle Type:		LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000								
VMT Distribution:		0.3721	0.3583	0.1221		0.0414	0.0004	0.0019	0.0984	0.0054	1.0000
Composite Emission Factors (g/mi):											
Composite NOX :		0.644	1.045	1.072	1.052	3.196	0.817	0.865	8.285	1.44	1.702

* # # # # # # # # # # # # # # # #
* Rural minor arterial Rural
* File 2, Run 1, Scenario 14.

```

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 44.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: July
    Altitude: Low
    Minimum Temperature: 58.5 (F)
    Maximum Temperature: 77.1 (F)
    Minimum Rel. Hum.: 44.3 (%)
    Maximum Rel. Hum.: 82.0 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 10.1 psi
    Weathered RVP: 10.1 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.3787 0.3648 0.1244 0.0368 0.0004 0.0019 0.0875 0.0055 1.0000
-----

```


Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.637	1.036	1.062	1.042	3.129	0.790	0.837	7.149	1.42	1.279

* * * * *
 * Rural local Rural
 * File 2, Run 1, Scenario 17.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
 M 48 Warning: there are no sales for vehicle class HDGV8b
 M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.637	1.036	1.062	1.042	3.129	0.790	0.837	7.146	1.42	1.430

* * * * *
 * Urban interstate Rural
 * File 2, Run 1, Scenario 18.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment : User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0521	0.0004	0.0018	0.1240	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.687	1.108	1.133	1.114	3.590	1.301	1.380	12.678	1.89	2.529

* * * * *

* Urban freeway Rural

* File 2, Run 1, Scenario 19.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

M581 Warning: User supplied VMT mix.

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.671	1.085	1.110	1.091	3.452	1.053	1.117	10.429	1.71	1.806

* * * * *
* Urban principle arterial Rural
* File 2, Run 1, Scenario 20.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.647	1.043	1.072	1.050	2.808	0.770	0.815	6.961	1.30	1.269

* * * * *
* Urban minor arterial Rural
* File 2, Run 1, Scenario 21.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDLV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4087	0.3936	0.1342	0.0163	0.0004	0.0021	0.0388	0.0059	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.631	1.024	1.052	1.031	2.900	0.756	0.800	6.834	1.35	1.125

```
* # # # # # # # # # # # # # # # # # #  
* Urban collector Rural
```


Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.4121	0.3969	0.1353	0.0140	0.0004	0.0021	0.0332	0.0060	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

</

ATP Program:		Yes								
Reformulated Gas:		No								
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3974	0.3827	0.1305	---	0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.634	1.027	1.055	1.034	2.875	0.757	0.801	6.841	1.34	1.253

```
* * * * *
```

```
** MOBILE6.2.03 (24-Sep-2003)
```

```
** Input file: DAVO8P2N.IN (file 22, run 1).
```

```
*****
```

```
** Reading Registration Distributions from the following external  
** data file: NCAGE07.PRN
```

```
*** # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
** Rural interstate TDM Q2  
** File 22, Run 1, Scenario 1.  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

```
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV
```

```
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

```
* Reading PM Diesel Zero Mile Levels  
* from the external data file PMDZML.CSV
```

```
* Reading the First PM Deterioration Rates  
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates  
* from the external data file PMDDR2.CSV
```

```
* Rural interstate mix and speeds  
M615 Comment: User supplied VMT mix.
```

```
M 96 Warning:        69.0    speed reduced to 65 mph maximum
```

```
M581 Warning:  
The user supplied freeway average speed of 65.0  
will be used for all hours of the day. 100% of VMT  
has been assigned to the freeway roadway type for  
all hours of the day and all vehicle types.
```

```
M 48 Warning:  
there are no sales for vehicle class HDGV8b
```

```
M111 Warning:  
The input diesel sulfur level of 43.0 ppm exceeds  
the 2007 HDD Rule diesel sulfur limit of 15 ppm.
```

```
Calendar Year:   2008  
Month:           July  
Altitude:       Low  
Minimum Temperature:  58.5 (F)  
Maximum Temperature:  77.1 (F)  
Minimum Rel. Hum.:   44.3 (%)  
Maximum Rel. Hum.:   82.0 (%)
```

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.779	1.252	1.264	1.255	3.657	1.451	1.540	14.032	1.98	3.752

* * * * *
* Rural minor arterial TDM Q2
* File 22, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3787	0.3648	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.741	1.198	1.211	1.201	3.337	0.921	0.976	8.332	1.55	1.731

* * * * *
* Rural major collector TDM Q2
* File 22, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/ml):	0.722	1.170	1.185	1.174	3.154	0.800	0.847	7.240	1.43	1.363

* * * * *
* Rural minor collector TDM Q2
* File 22, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.736	1.191	1.204	1.194	3.289	0.881	0.933	7.967	1.50	1.447

* # # # # # # # # # # # # # # # # # #

* Rural local TDM Q2

* File 22, Run 1, Scenario 5.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

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* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment:

User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0521	0.0004	0.0018	0.1240	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.779	1.252	1.264	1.255	3.657	1.451	1.540	14.038	1.98	2.800

```

* * * * *
* Urban freeway TDM Q2
* File 22, Run 1, Scenario 7.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 57.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: July
    Altitude: Low
    Minimum Temperature: 58.5 (F)
    Maximum Temperature: 77.1 (F)
    Minimum Rel. Hum.: 44.3 (%)
    Maximum Rel. Hum.: 82.0 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 10.1 psi
    Weathered RVP: 10.1 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT
HDDV HDGV LDGV LDGT
LDDV LDDT HDDV MC All Veh

```

GVWR:	<6000	>6000	(All)						
VT Distribution:	0.3807	0.3667	0.1250						
Composite Emission Factors (g/mi):									
Composite NOX :	0.757	1.221	1.234	1.224	3.476	1.090	1.156	10.761	1.74

* * * * *
* Urban principle arterial TDM Q2
* File 22, Run 1, Scenario 8.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.713	1.157	1.173	1.161	3.059	0.767	0.812	6.936	1.40	1.357
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* # # # # # # # # # # # # # # # #
* Urban minor arterial TDM Q2
* File 22, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # #
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.714	1.159	1.175	1.163	3.081	0.771	0.816	6.970	1.41	1.237

* * * * *
 * Urban collector TDM Q2
 * File 22, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/ml):	0.720	1.166	1.182	1.170	3.130	0.790	0.837	7.156	1.42	1.211

* * * * *
 * Urban local TDM Q2
 * File 22, Run 1, Scenario 11.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.729	1.180	1.195	1.184	3.220	0.834	0.883	7.535	1.45	1.417
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* * * * *

* Rural interstate Rural

* File 22, Run 1, Scenario 12.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.779	1.252	1.264	1.255	3.657	1.451	1.540	14.032	1.98	3.752

* * * * *
 * Rural principle arterial Rural
 * File 22, Run 1, Scenario 13.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3787	0.3648	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.724	1.173	1.188	1.177	3.176	0.808	0.856	7.311	1.43	1.616

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Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.720	1.166	1.182	1.170	3.129	0.790	0.837	7.149	1.42	1.377


```

* * * * *
* Rural local Rural
* File 22, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

```


Calendar Year:	2008
Month:	July
Altitude:	Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3848	0.3706	0.1263		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.720	1.166	1.182	1.170	3.129	0.790	0.837	7.146	1.42	1.525

* * * * *
* Urban interstate Rural
* File 22, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170	0.0521	0.0004	0.0018	0.1240	0.0052	1.0000	
Composite Emission Factors (g/ml):										
Composite NOX :	0.771	1.241	1.253	1.244	3.590	1.301	1.380	12.678	1.89	2.619

* * * * *
 * Urban freeway Rural
 * File 22, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule dieselsulfur limit of 15 ppm.

```
M 48 Warning:
there are no sales for vehicle class HDGV8b
```

Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap	I/M	Program:	No

ATP Program: Yes

Simulated Gas: No

type: LDGV LDGT1

009>

[illegible]

0.3807 0.366

Factors (g/mi):

0.754	1.2
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[illegible]

* [Urban principal arterial] Rural]

* File 22 Run 1 Scenario 20

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	**Reading	PM Gas	Carbon	ZML Levels
5-0-00	44	0.00	7	5.1
6-0-00	44	0.00	7	5.1
7-0-00	44	0.00	7	5.1
8-0-00	44	0.00	7	5.1
9-0-00	44	0.00	7	5.1
10-0-00	44	0.00	7	5.1
11-0-00	44	0.00	7	5.1
12-0-00	44	0.00	7	5.1
1-0-01	44	0.00	7	5.1
2-0-01	44	0.00	7	5.1
3-0-01	44	0.00	7	5.1
4-0-01	44	0.00	7	5.1
5-0-01	44	0.00	7	5.1
6-0-01	44	0.00	7	5.1
7-0-01	44	0.00	7	5.1
8-0-01	44	0.00	7	5.1
9-0-01	44	0.00	7	5.1
10-0-01	44	0.00	7	5.1
11-0-01	44	0.00	7	5.1
12-0-01	44	0.00	7	5.1
1-0-02	44	0.00	7	5.1
2-0-02	44	0.00	7	5.1
3-0-02	44	0.00	7	5.1
4-0-02	44	0.00	7	5.1
5-0-02	44	0.00	7	5.1
6-0-02	44	0.00	7	5.1
7-0-02	44	0.00	7	5.1
8-0-02	44	0.00	7	5.1
9-0-02	44	0.00	7	5.1
10-0-02	44	0.00	7	5.1
11-0-02	44	0.00	7	5.1
12-0-02	44	0.00	7	5.1
1-0-03	44	0.00	7	5.1
2-0-03	44	0.00	7	5.1
3-0-03	44	0.00	7	5.1
4-0-03	44	0.00	7	5.1
5-0-03	44	0.00	7	5.1
6-0-03	44	0.00	7	5.1
7-0-03	44	0.00	7	5.1
8-0-03	44	0.00	7	5.1
9-0-03	44	0.00	7	5.1
10-0-03	44	0.00	7	5.1
11-0-03	44	0.00	7	5.1
12-0-03	44	0.00	7	5.1
1-0-04	44	0.00	7	5.1
2-0-04	44	0.00	7	5.1
3-0-04	44	0.00	7	5.1
4-0-04	44	0.00	7	5.1
5-0-04	44	0.00	7	5.1
6-0-04	44	0.00	7	5.1
7-0-04	44	0.00	7	5.1
8-0-04	44	0.00	7	5.1
9-0-04	44	0.00	7	5.1
10-0-04	44	0.00	7	5.1
11-0-04	44	0.00	7	5.1
12-0-04	44	0.00	7	5.1
1-0-05	44	0.00	7	5.1
2-0-05	44	0.00	7	5.1
3-0-05	44	0.00	7	5.1
4-0-05	44	0.00	7	5.1
5-0-05	44	0.00	7	5.1
6-0-05	44	0.00	7	5.1
7-0-05	44	0.00	7	5.1
8-0-05	44	0.00	7	5.1
9-0-05	44	0.00	7	5.1
10-0-05	44	0.00	7	5.1
11-0-05	44	0.00	7	5.1
12-0-05	44	0.00	7	5.1
1-0-06	44	0.00	7	5.1
2-0-06	44	0.00	7	5.1
3-0-06	44	0.00	7	5.1
4-0-06	44	0.00	7	5.1
5-0-06	44	0.00	7	5.1
6-0-06	44	0.00	7	5.1
7-0-06	44	0.00	7	5.1
8-0-06	44	0.00	7	5.1

* from the external data file PMGZML.CSV

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Reading PM Gas Carbon DRI Levels

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* from the external data file PMGDRI.CSV
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Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Pooled data from 1997 and 1998

* * Reading PM Diesel Zero Mile Levels
* * from the external data file c:\pmdmi.csv

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.731	1.176	1.195	1.181	2.808	0.770	0.815	6.961	1.30	1.369

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* Urban minor arterial Rural										
* File 22, Run 1, Scenario 21.										
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* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.714	1.155	1.173	1.160	2.900	0.756	0.800	6.834	1.35	1.226

* # # # # # # # # # # # # # # # #
 * Urban collector Rural
 * File 22, Run 1, Scenario 22.
 * # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.717	1.158	1.176	1.163	2.876	0.757	0.801	6.853	1.34	1.192
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* Urban local Rural
* File 22, Run 1, Scenario 23.
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* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 31.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

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Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3974	0.3827	0.1305	0.0241	0.0004	0.0020	0.0572	0.0057	1.0000	

Composite Emission Factors (g/mi):										
Composite NOx :	0.717	1.158	1.176	1.163	2.875	0.757	0.801	6.841	1.34	1.352

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.618	0.981	1.003	0.987	3.750	1.451	1.540	14.032	1.66	3.599

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* Rural minor arterial TDM Q3										
* File 3, Run 1, Scenario 2.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M111 Warning:	The input dIesel sulfur level of 43.0 ppm exceeds									

the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3787	0.3648	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.590	0.936	0.959	0.942	3.423	0.921	0.976	8.332	1.30	1.548

* * * * *
* Rural major collector TDM Q3
* File 3, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

GVWR:

	<6000	<6000	>6000	(All)						
--	-------	-------	-------	-------	--	--	--	--	--	--

VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/ml):

Composite NOX :	0.575	0.911	0.935	0.917	3.235	0.800	0.847	7.240	1.20	1.173
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* #

* Rural minor collector TDM Q3

* File 3, Run 1, Scenario 4.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.586	0.929	0.953	0.935	3.373	0.881	0.933	7.967	1.26	1.255

* * * * *
 * Rural local TDM Q3
 * File 3, Run 1, Scenario 5.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 49.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.586	0.929	0.953	0.935	3.373	0.881	0.933	7.964	1.26	1.428

* # # # # # # # # # # # # # # # # # #
* Urban interstate TDM Q3
* File 3, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3564	0.3431	0.1170		0.0521	0.0004	0.0018	0.1240	0.0052	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.618	0.981	1.003	0.987	3.750	1.451	1.540	14.038	1.66	2.622
-----------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

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* * * * *
* Urban freeway TDM Q3
* File 3, Run 1, Scenario 7.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 57.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```


Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VTM Distribution:	0.3978	0.3828	0.1305	0.0240	0.0004	0.0020	0.0568	0.0057	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.569	0.900	0.925	0.906	3.137	0.767	0.812	6.936	1.18	1.169

* * * * *
* Urban minor arterial TDM Q3
* File 3, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 40.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

On-road Mobile Source Emission Inventory Documentation
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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

* Urban collector mix and speeds

User supplied VMT mix.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.573	0.908	0.932	0.914	3.210	0.790	0.837	7.156	1.19	1.015

* * * * *
* Urban local TDM Q3
* File 3, Run 1, Scenario 11.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3974	0.3827	0.1305	>6000	0.0241	0.0004	0.0020	0.0572	0.0057	1.0000
Composite Emission Factors (g/ml):	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Composite NOX :	0.581	0.920	0.944	0.926	3.303	0.834	0.883	7.535	1.22	1.226

* * * * *
* Rural interstate Rural
* File 3, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0414	0.0004	0.0019	0.0984	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.579	0.917	0.941	0.923	3.278	0.817	0.865	8.285	1.21	1.618

* # # # # # # # # # # # # # # # #
* Rural minor arterial Rural
* File 3, Run 1, Scenario 14.

```

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 44.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: July
    Altitude: Low
    Minimum Temperature: 68.2 (F)
    Maximum Temperature: 83.1 (F)
    Minimum Rel. Hum.: 56.8 (%)
    Maximum Rel. Hum.: 86.8 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 7.8 psi
    Weathered RVP: 7.7 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.3787 0.3648 0.1244 0.0368 0.0004 0.0019 0.0875 0.0055 1.0000
-----

```


Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3978	0.3829	0.1306	---	0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.573	0.908	0.932	0.914	3.209	0.790	0.837	7.149	1.19	1.188

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

* Rural local mix and speeds

User supplied VMT mix.

M 48 Warning:

Mlll Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

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Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.573	0.908	0.933	0.914	3.209	0.790	0.837	7.146	1.19	1.343

* * * * *
 * Urban interstate Rural
 * File 3, Run 1, Scenario 18.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0521	0.0004	0.0018	0.1240	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.612	0.972	0.994	0.977	3.681	1.301	1.380	12.678	1.59	2.443

* * * * *

* Urban freeway Rural

* File 3, Run 1, Scenario 19.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

M581 Warning: User supplied VMT mix.

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.600	0.952	0.974	0.958	3.540	1.053	1.117	10.429	1.43	1.715

* * * * *
* Urban principle arterial Rural
* File 3, Run 1, Scenario 20.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.590	0.918	0.944	0.924	2.880	0.770	0.815	6.961	1.09	1.182

* * * * *

* Urban minor arterial Rural

* File 3, Run 1, Scenario 21.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

	Altitude:	Low
Minimum Temperature:	68.2 (F)	
Maximum Temperature:	83.1 (F)	
Minimum Rel. Hum.:	56.8 (%)	
Maximum Rel. Hum.:	86.8 (%)	
Barometric Pressure:	30.00 (in)	
Nominal Fuel RVP:	7.8 psi	
Weathered RVP:	7.7 psi	
Fuel Sulfur Content:	3. ppm	

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

[illegible]

* File 3, Run 1, Scenario 22.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 *
 * Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4121	0.3969	0.1353	-----	0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

ATP Program:		Yes								
Reformulated Gas:		No								
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3974	0.3827	0.1305	-----	0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.576	0.902	0.928	0.909	2.949	0.757	0.801	6.841	1.12	1.166

```
*****  
** MOBILE6.2.03 (24-Sep-2003) *****  
** Input file: DAVO8P3N.IN (file 23, run 1). *****  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q3  
* File 23, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV  
  
* Reading PM Diesel Zero Mile Levels  
* from the external data file PWDZML.CSV  
  
* Reading the First PM Deterioration Rates  
* from the external data file PWDDR1.CSV  
  
* Reading the Second PM Deterioration Rates  
* from the external data file PWDDR2.CSV  
* Rural interstate mix and speeds  
M615 Comment: User supplied VMT mix.  
M 96 Warning: 69.0 speed reduced to 65 mph maximum  
M581 Warning:  
The user supplied freeway average speed of 65.0  
will be used for all hours of the day. 100% of VMT  
has been assigned to the freeway roadway type for  
all hours of the day and all vehicle types.  
M 48 Warning:  
there are no sales for vehicle class HDGV8b  
M111 Warning:  
The input diesel sulfur level of 43.0 ppm exceeds  
the 2007 HDD Rule diesel sulfur limit of 15 ppm.  
  
Calendar Year: 2008  
Month: July  
Altitude: Low  
Minimum Temperature: 68.2 (F)  
Maximum Temperature: 83.1 (F)  
Minimum Rel. Hum.: 56.8 (%)  
Maximum Rel. Hum.: 86.8 (%)
```

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.692	1.099	1.110	1.101	3.750	1.451	1.540	14.032	1.66	3.669

* * * * *
* Rural minor arterial TDM Q3
* File 23, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3787	0.3648	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.663	1.051	1.064	1.054	3.423	0.921	0.976	8.332	1.30	1.631

* * * * *
* Rural major collector TDM Q3
* File 23, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/ml):	0.649	1.026	1.041	1.030	3.235	0.800	0.847	7.240	1.20	1.260

* * * * *
* Rural minor collector TDM Q3
* File 23, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.659	1.044	1.058	1.048	3.373	0.881	0.933	7.967	1.26	1.342

* # # # # # # # # # # # # # # # # # # #

* Rural local TDM Q3

* File 23, Run 1, Scenario 5.

* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment:

User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3564	0.3431	0.1170		0.0521	0.0004	0.0018	0.1240	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.692	1.099	1.110	1.101	3.750	1.451	1.540	14.038	1.66	2.701


```

* * * * *
* Urban freeway TDM Q3
* File 23, Run 1, Scenario 7.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 57.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: July
    Altitude: Low
    Minimum Temperature: 68.2 (F)
    Maximum Temperature: 83.1 (F)
    Minimum Rel. Hum.: 56.8 (%)
    Maximum Rel. Hum.: 86.8 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 7.8 psi
    Weathered RVP: 7.7 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT
HDDV HDGV LDGV LDGT
LDDV LDDT HDDV MC All Veh

```

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.642 1.014 1.030 1.018 3.137 0.767 0.812 6.936 1.18 1.256

* * * * *
* Urban minor arterial TDM Q3
* File 23, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.643	1.016	1.032	1.020	3.159	0.771	0.816	6.970	1.18	1.132

* * * * *
 * Urban collector TDM Q3
 * File 23, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353	0.0140	0.0004	0.0021	0.0332	0.0060	1.0000	

Composite Emission Factors (g/ml):	0.647	1.023	1.038	1.027	3.210	0.790	0.837	7.156	1.19	1.105

* * * * *
 * Urban local TDM Q3
 * File 23, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.654	1.035	1.049	1.039	3.303	0.834	0.883	7.535	1.22	1.313
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural interstate Rural

* File 23, Run 1, Scenario 12.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.692	1.099	1.110	1.101	3.750	1.451	1.540	14.032	1.66	3.669

* # # # # # # # # # # # # # # # # # #
 * Rural principle arterial Rural
 * File 23, Run 1, Scenario 13.
 * # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDOT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3787	0.3648	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.650	1.029	1.043	1.032	3.257	0.808	0.856	7.311	1.20	1.519

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.647	1.023	1.038	1.027	3.209	0.790	0.837	7.149	1.19	1.275
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* * * * *
 * Rural local Rural
 * File 23, Run 1, Scenario 17.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3848	0.3706	0.1263		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.647	1.023	1.038	1.027	3.209	0.790	0.837	7.146	1.19	1.427

* * * * *
* Urban interstate Rural
* File 23, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3564	0.3431	0.1170		0.0521	0.0004	0.0018	0.1240	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.686	1.088	1.100	1.091	3.681	1.301	1.380	12.678	1.59	2.521

* * * * *
* Urban freeway Rural
* File 23, Run 1, Scenario 19.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

ng: there are no sales for vehicle class HDGV8b

ng: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

```
M 48 Warning:
there are no sales for vehicle class HDGV8b
```

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Simulated Gas: No

Reformulated Gas: No

```

type: LDGV LDGT1

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:

Distribution:

1
2
3
4
5
6
7
8
9
10
11
12

Composite Emission Factors (g/mi):

Composite NOX : 0.673

[illegible]

* Urban principle arterial Rural

* File 23, Run 1, Scenario 20.

[illegible]

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file `PMDZML.csv`

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.666	1.035	1.052	1.039	2.880	0.770	0.815	6.961	1.09	1.271

* * * * *
 * Urban minor arterial Rural
 * File 23, Run 1, Scenario 21.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.647	1.014	1.031	1.019	2.975	0.756	0.800	6.834	1.13	1.125

* # # # # # # # # # # # # # # # #
 * Urban collector Rural
 * File 23, Run 1, Scenario 22.
 * # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.651	1.018	1.035	1.022	2.950	0.757	0.801	6.853	1.12	1.090
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

```

* * * * *
* Urban local Rural
* File 23, Run 1, Scenario 23.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 31.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3974	0.3827	0.1305	0.0241	0.0004	0.0020	0.0572	0.0057	1.0000	

Composite Emission Factors (g/mi):										
Composite NOx :	0.651	1.018	1.035	1.022	2.949	0.757	0.801	6.841	1.12	1.254

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3148	0.3031	0.1033		0.0808	0.0003	0.0015	0.1916	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.757	1.280	1.358	1.300	3.752	1.083	1.414	13.802	2.43	3.728

* * * * *
* Rural minor arterial TDM Q4
* File 4, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:

The input dIesel sulfur level of 43.0 ppm exceeds

the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3787	0.3649	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.714	1.220	1.299	1.240	3.424	0.686	0.893	8.187	1.90	1.732

* * * * *
* Rural major collector TDM Q4
* File 4, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3997	0.3850	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.691	1.188	1.268	1.209	3.236	0.595	0.774	7.099	1.75	1.364

* # # # # # # # # # # # # # # # # # #

* Rural minor collector TDM Q4

* File 4, Run 1, Scenario 4.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.

Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3978	0.3830	0.1306		0.0239	0.0004	0.0019	0.0566	0.0058	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.708	1.212	1.291	1.232	3.375	0.656	0.853	7.823	1.84	1.450

* * * * *
 * Rural local TDM Q4
 * File 4, Run 1, Scenario 5.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 49.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3707	0.1264		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.708	1.212	1.291	1.232	3.375	0.656	0.853	7.821	1.84	1.614

* # # # # # # # # # # # # # # # # # #
* Urban interstate TDM Q4
* File 4, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3564	0.3432	0.1170		0.0522	0.0004	0.0017	0.1239	0.0052	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.757	1.280	1.358	1.300	3.752	1.083	1.413	13.807	2.43	2.790
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* * * * *
* Urban freeway TDM Q4
* File 4, Run 1, Scenario 7.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 57.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```


Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3978	0.3829	0.1305	0.0240	0.0004	0.0019	0.0568	0.0057	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.679	1.173	1.254	1.194	3.139	0.571	0.742	6.796	1.72	1.356

* * * * *
 * Urban minor arterial TDM Q4
 * File 4, Run 1, Scenario 9.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M111 Warning: The input dIesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.

M583 Warning:
The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4121	0.3970	0.1353		0.0140	0.0004	0.0020	0.0332	0.0060	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.688	1.184	1.264	1.205	3.211	0.588	0.764	7.015	1.74	1.215

* * * * *
* Urban local TDM Q4
* File 4, Run 1, Scenario 11.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3974	0.3828	0.1305	0.0241	0.0004	0.0019	0.0572	0.0057	1.0000	1.419
Composite Emission Factors (g/ml):										
Composite NOX :	0.699	1.200	1.279	1.220	3.304	0.620	0.807	7.393	1.78	1.419

* * * * *
* Rural interstate Rural
* File 4, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3031	0.1033		0.0808	0.0003	0.0015	0.1916	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.757	1.280	1.358	1.300	3.752	1.083	1.414	13.802	2.43	3.728

* # # # # # # # # # # # # # # # #
* Rural principle arterial Rural
* File 4, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3584	0.1221		0.0414	0.0004	0.0018	0.0984	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.696	1.196	1.275	1.216	3.279	0.608	0.790	8.077	1.76	1.785

* # # # # # # # # # # # # # # # #
* Rural minor arterial Rural
* File 4, Run 1, Scenario 14.

```

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 44.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2009
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 44.0 (F)
    Maximum Temperature: 55.9 (F)
    Minimum Rel. Hum.: 61.6 (%)
    Maximum Rel. Hum.: 85.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.3787 0.3649 0.1244 0.0368 0.0004 0.0019 0.0875 0.0055 1.0000
-----

```


Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3978	0.3830	0.1306		0.0239	0.0004	0.0019	0.0566	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.688	1.184	1.264	1.205	3.211	0.588	0.764	7.008	1.74	1.378

* # # # # # # # # # # # # # # # # # #										
* Rural local Rural										
* File 4, Run 1, Scenario 17.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2009										

Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3848	0.3707	0.1264		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.688	1.184	1.264	1.205	3.211	0.588	0.764	7.006	1.74	1.523

* * * * *
* Urban interstate Rural
* File 4, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3432	0.1170		0.0522	0.0004	0.0017	0.1239	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.748	1.267	1.346	1.287	3.683	0.970	1.266	12.452	2.32	2.609

* * * * *
 * Urban freeway Rural
 * File 4, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)	0.0355	0.0004	0.0019	0.0843	0.0055	1.0000
VMT Distribution:	0.3807	0.3668	0.1250		3.542	0.785	1.023	10.212	2.09	1.898

Composite Emission Factors (g/mi):
Composite NOX : 0.729 1.241 1.319 1.261 3.542 0.785 1.023 10.212 2.09 1.898

* * * * *
* Urban principle arterial Rural
* File 4, Run 1, Scenario 20.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1305		0.0240	0.0004	0.0019	0.0568	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.690	1.189	1.273	1.211	2.881	0.573	0.745	6.821	1.60	1.363

* * * * *

* Urban minor arterial Rural

* File 4, Run 1, Scenario 21.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

[illegible]


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-----Composite Emission Factors (g/mi):-----
Composite NOX : 0.678 1.172 1.254 1.193 2.951 0.563 0.732 6.713 1.64 1.190
-----
* * * * *
* Urban local Rural
* File 4, Run 1, Scenario 23.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes

```

ATP Program:		Yes								
Reformulated Gas:		No								
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3974	0.3828	0.1305	---	0.0241	0.0004	0.0019	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.678	1.172	1.254	1.193	2.951	0.563	0.732	6.702	1.64	1.348

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: DAV08P4N.IN (file 24, run 1).
*****

```

```

** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
** Rural interstate TDM Q4
**
** File 24, Run 1, Scenario 1.
**

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

User supplied VMT mix.

MS81 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2009
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3148	0.3031	0.1033		0.0808	0.0003	0.0015	0.1916	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.870	1.440	1.522	1.461	3.752	1.083	1.414	13.802	2.43	3.829

* * * * *
* Rural minor arterial TDM Q4
* File 24, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

```

* * * * *
* * Rural major collector TDM Q4
* * File 24, Run 1, Scenario 3.
* * * * *
* *
* * Reading PM Gas Carbon ZML Levels
* * from the external data file PMGZML.CSV
* *
* * Reading PM Gas Carbon DR1 Levels
* * from the external data file PMGDR1.CSV
* *
* * Reading PM Gas Carbon DR2 Levels
* * from the external data file PMGDR2.CSV
* *
* * Reading PM Diesel Zero Mile Levels
* * from the external data file PMDZML.CSV
* *
* * Reading the First PM Deterioration Rates
* * from the external data file PMDDR1.CSV
* *
* * Reading the Second PM Deterioration Rates
* * from the external data file PMDDR2.CSV
* * Rural major collector mix and speeds
* * M615 Comment:
* * User supplied VMT mix.

```

M583 Warning:

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3997	0.3850	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.799	1.345	1.430	1.367	3.236	0.595	0.774	7.099	1.75	1.489

* * * * *
* Rural minor collector TDM Q4
* File 24, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:

VMT Distribution:	0.3978	0.3830	0.1306	>6000	0.0239	0.0004	0.0019	0.0566	0.0058	1.0000
-------------------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/ml):

Composite NOX :	0.817	1.369	1.452	1.390	3.375	0.656	0.853	7.823	1.84	1.575
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # # #

* Rural local TDM Q4

* File 24, Run 1, Scenario 5.

* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3707	0.1264		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.817	1.369	1.452	1.390	3.375	0.656	0.853	7.821	1.84	1.735

* # # # # # # # # # # # # # # # # # #										
* Urban interstate TDM Q4										
* File 24, Run 1, Scenario 6.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3564	0.3432	0.1170		0.0522	0.0004	0.0017	0.1239	0.0052	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.870 1.440 1.522 1.461 3.752 1.083 1.413 13.807 2.43 2.904

```

* * * * *
* Urban freeway TDM Q4
* File 24, Run 1, Scenario 7.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 57.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2009
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 44.0 (F)
    Maximum Temperature: 55.9 (F)
    Minimum Rel. Hum.: 61.6 (%)
    Maximum Rel. Hum.: 85.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT
HDDV HDGV LDGV LDGT
LDDV LDDT HDDV MC All Veh

```

GVWR:	<6000	>6000	(All)						
VT Distribution:	0.3807	0.3668	0.1250						
Composite Emission Factors (g/ml):									
Composite NOX :	0.843	1.404	1.486	1.425	3.566	0.812	1.059	10.543	2.13

* # # # # # # # # # # # # # # # # # # #
* Urban principle arterial TDM Q4
* File 24, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban principle arterial mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2009
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1305		0.0240	0.0004	0.0019	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.787 1.330 1.416 1.352 3.139 0.571 0.742 6.796 1.72 1.480

* * * * *
* Urban minor arterial TDM Q4
* File 24, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.4087	0.3937	0.1342		0.0163	0.0004	0.0020	0.0388	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.790	1.333	1.419	1.354	3.161	0.573	0.745	6.830	1.73	1.366

* * * * *
 * Urban collector TDM Q4
 * File 24, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.4121	0.3970	0.1353	0.0140	0.0004	0.0020	0.0332	0.0060	1.0000	
Composite Emission Factors (g/ml):	0.796	1.341	1.426	1.363	3.211	0.588	0.764	7.015	1.74	1.344

* * * * *
* Urban local TDM Q4
* File 24, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3974	0.3828	0.1305		0.0241	0.0004	0.0019	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.808	1.357	1.441	1.378	3.304	0.620	0.807	7.393	1.78	1.543
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural interstate Rural

* File 24, Run 1, Scenario 12.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3148	0.3031	0.1033		0.0808	0.0003	0.0015	0.1916	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.870	1.440	1.522	1.461	3.752	1.083	1.414	13.802	2.43	3.829

* #
 * Rural principle arterial Rural
 * File 24, Run 1, Scenario 13.
 * #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3787	0.3649	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOx :	0.802	1.349	1.434	1.370	3.259	0.601	0.782	7.169	1.75	1.733

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.3997	0.3850	0.1312	-----	0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.799	1.345	1.430	1.367	3.236	0.595	0.774	7.099	1.75	1.489

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural minor collector Rural	#	#	#	#	#	#	#	#	#	#
* File 24, Run 1, Scenario 16.	#	#	#	#	#	#	#	#	#	#
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR1 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR2 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Diesel Zero Mile Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the First PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the Second PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Rural minor collector mix and speeds	#	#	#	#	#	#	#	#	#	#
M615 Comment:	#	#	#	#	#	#	#	#	#	#
User supplied VMT mix.										
M583 Warning:	#	#	#	#	#	#	#	#	#	#
The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:	#	#	#	#	#	#	#	#	#	#
there are no sales for vehicle class HDGV8b										
M111 Warning:	#	#	#	#	#	#	#	#	#	#
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2009										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3978	0.3830	0.1306		0.0239	0.0004	0.0019	0.0566	0.0058	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.796	1.341	1.426	1.363	3.211	0.588	0.764	7.008	1.74	1.502
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Rural local Rural
 * File 24, Run 1, Scenario 17.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.
 Altitude: Low

Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3848	0.3707	0.1264		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.796	1.341	1.427	1.363	3.211	0.588	0.764	7.006	1.74	1.644

* * * * *
* Urban interstate Rural
* File 24, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3564	0.3432	0.1170	0.0522	0.0004	0.0017	0.1239	0.0052	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.860	1.427	1.509	1.448	3.683	0.970	1.266	12.452	2.32	2.723

* * * * *

* Urban freeway Rural

* File 24, Run 1, Scenario 19.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1305		0.0240	0.0004	0.0019	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.799	1.349	1.439	1.372	2.881	0.573	0.745	6.821	1.60	1.490

* * * * *
 * Urban minor arterial Rural
 * File 24, Run 1, Scenario 21.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTr12	LDGTr34	LDGT (All)	HDGV	LDVV	LDVT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.4121	0.3970	0.1353		0.0140	0.0004	0.0020	0.0332	0.0060	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.787	1.330	1.419	1.353	2.951	0.563	0.732	6.713	1.64	1.320
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```

* * * * *
* Urban local Rural
* File 24, Run 1, Scenario 23.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 31.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3974	0.3828	0.1305	0.0241	0.0004	0.0019	0.0572	0.0057	1.0000	

Composite Emission Factors (g/mi):										
Composite NOx :	0.787	1.330	1.419	1.353	2.951	0.563	0.732	6.702	1.64	1.472

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.2838	0.3263	0.1113		0.0806	0.0003	0.0016	0.1917	0.0044	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.649	1.164	1.245	1.184	3.115	0.681	1.058	10.592	2.59	2.997

* * * * *
 * Rural minor arterial TDM Q1
 * File 5, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment:

M583 Warning:
 User supplied VMT mix.

The user supplied arterial average speed of 51.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.611	1.111	1.193	1.132	2.841	0.430	0.667	6.302	2.02	1.473

* * * * *
 * Rural major collector TDM Q1
 * File 5, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDLV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.590	1.084	1.167	1.105	2.686	0.373	0.578	5.454	1.86	1.190

* * * * *	* * * * *	* * * * *	* * * * *							
* Rural minor collector TDM Q1										
* File 5, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway									

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3585	0.4124	0.1407		0.0239	0.0003	0.0021	0.0567	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.603	1.101	1.183	1.122	2.783	0.404	0.627	5.923	1.94	1.251

* * * * *
* Rural local TDM Q1
* File 5, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011											
Month: Jan.											
Altitude: Low											
Minimum Temperature: 37.1 (F)											
Maximum Temperature: 53.6 (F)											
Minimum Rel. Hum.: 45.8 (%)											
Maximum Rel. Hum.: 75.1 (%)											
Barometric Pressure: 30.00 (inches Hg)											
Nominal Fuel RVP: 14.0 psi											
Weathered RVP: 14.0 psi											
Fuel Sulfur Content: 30. ppm											
Exhaust I/M Program: Yes											
Evap I/M Program: Yes											
ATP Program: Yes											
Reformulated Gas: No											
Vehicle Type:		LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:		0.3467	0.3991	0.1361	0.0326	0.0003	0.0020	0.0778	0.0054	1.0000	-----

Composite Emission Factors (g/mi):											
Composite NOX :		0.606	1.104	1.186	1.125	2.802	0.411	0.638	6.021	1.96	1.384

* * * * *
* Urban interstate TDM Q1
* File 5, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.
 M 96 Warning: 68.0 speed reduced to 65 mph maximum
 M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1261		0.0521	0.0003	0.0018	0.1241	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.649	1.164	1.245	1.184	3.115	0.681	1.058	10.600	2.59	2.288

* * * * *
 * Urban freeway TDM Q1
 * File 5, Run 1, Scenario 7.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3429	0.3950	0.1347		0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.627	1.134	1.215	1.154	2.961	0.510	0.792	8.056	2.27	1.625

* * * * *

* Urban principle arterial TDM Q1

* File 5, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1407		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.581	1.071	1.155	1.092	2.606	0.358	0.554	5.232	1.83	1.184
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Urban minor arterial TDM Q1
* File 5, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.582	1.073	1.157	1.094	2.624	0.359	0.557	5.255	1.84	1.095

* * * * *
* Urban collector TDM Q1
* File 5, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.585	1.077	1.160	1.098	2.646	0.364	0.564	5.327	1.85	1.073
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Urban local TDM Q1
 * File 5, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3582	0.4121	0.1407	-----	0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

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Composite Emission Factors (g/mi):
Composite NOx :    0.595    1.090    1.173    1.111    2.721    0.381    0.591    5.580    1.87    1.224
-----

* * * * *
* Rural interstate Rural
* File 5, Run 1, Scenario 12.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M 96 Warning:
    66.0    speed reduced to 65 mph maximum
M581 Warning:
    The user supplied freeway average speed of 65.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

```


Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3352	0.3859	0.1316		0.0414	0.0003	0.0019	0.0985	0.0052	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.598 1.094 1.176 1.115 2.744 0.389 0.603 6.258 1.90 1.519

* * * * *
* Rural minor arterial Rural
* File 5, Run 1, Scenario 14.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.593	1.087	1.170	1.108	2.704	0.377	0.584	5.511	1.87	1.379

* * * * *
* Rural major collector Rural
* File 5, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.590	1.084	1.167	1.105	2.686	0.373	0.578	5.454	1.86	1.190

* * * * *
* Rural minor collector Rural
* File 5, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3585	0.4124	0.1407		0.0239	0.0003	0.0021	0.0567	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.588	1.081	1.164	1.102	2.666	0.369	0.571	5.394	1.85	1.201

* # # # # # # # # # # # # # # # # # #
* Rural local Rural
* File 5, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # #
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.588	1.081	1.163	1.102	2.666	0.369	0.571	5.387	1.85	1.311

* * * * *
* Urban interstate Rural
* File 5, Run 1, Scenario 18.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

M581 Warning: User supplied VMT mix.
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0521	0.0003	0.0018	0.1241	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.644	1.156	1.238	1.177	3.077	0.634	0.985	9.908	2.51	2.194

* # # # # # # # # # # # # # # # # # #
* Urban freeway Rural
* File 5, Run 1, Scenario 19.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.624	1.130	1.211	1.150	2.940	0.493	0.765	7.799	2.23	1.599

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial Rural

* File 5, Run 1, Scenario 20.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3582	0.4123	0.1407		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.585	1.079	1.166	1.101	2.410	0.356	0.552	5.209	1.71	1.184

* # # # # # # # # # # # # # # # # #
 * Urban minor arterial Rural
 * File 5, Run 1, Scenario 21.
 * # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

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```
* * * * *
* Urban local Rural
* File 5, Run 1, Scenario 23.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds
 M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1407		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.580	1.071	1.156	1.092	2.449	0.353	0.547	5.160	1.74	1.176

```
* * * MOBILE6.2.03 (24-Sep-2003) *
** Input file: DAVILPIN.IN (file 25, run 1). **
*****
** Reading Registration Distributions from the following external
**   data file: NCAGE07.PRN
** # # # # # Rural interstate TDM Q1
** File 25, Run 1, Scenario 1.
** # # # # # 
**
** Reading PM Gas Carbon ZML Levels
** from the external data file PMGZML.CSV
**
** Reading PM Gas Carbon DR1 Levels
** from the external data file PMGDR1.CSV
**
** Reading PM Gas Carbon DR2 Levels
** from the external data file PMGDR2.CSV
**
** Reading PM Diesel Zero Mile Levels
** from the external data file PMDZML.CSV
**
** Reading the First PM Deterioration Rates
** from the external data file PWDDR1.CSV
**
** Reading the Second PM Deterioration Rates
** from the external data file PWDDR2.CSV
** Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.
M 96 Warning:      68.0 speed reduced to 65 mph maximum
M581 Warning: The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8B
Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
```

Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2838	0.3263	0.1113		0.0806	0.0003	0.0016	0.1917	0.0044	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.785	1.359	1.431	1.377	3.115	0.681	1.058	10.592	2.59	3.120

* # # # # # # # # # # # # # # # #
* Rural minor arterial TDM Q1
* File 25, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year:	2011
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)

Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.744	1.303	1.377	1.322	2.841	0.430	0.667	6.302	2.02	1.618

* * * * *
 * Rural major collector TDM Q1
 * File 25, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.

M583 Warning:
The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1407		0.0239	0.0003	0.0021	0.0567	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.735	1.292	1.367	1.311	2.783	0.404	0.627	5.923	1.94	1.403

* * * * *
* Rural local TDM Q1
* File 25, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 49.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.738	1.295	1.370	1.314	2.802	0.411	0.638	6.021	1.96	1.531

* * * * *
 * Urban interstate TDM Q1
 * File 25, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3210	0.3696	0.1261	>6000	0.0521	0.0003	0.0018	0.1241	0.0050	1.0000
Composite Emission Factors (g/ml):	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Composite NOX :	0.785	1.359	1.431	1.377	3.115	0.681	1.058	10.600	2.59	2.427

* * * * *

* Urban freeway TDM Q1

* File 25, Run 1, Scenario 7.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3429	0.3950	0.1347	>6000	0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.761	1.326	1.400	1.345	2.961	0.510	0.792	8.056	2.27	1.772
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban principle arterial TDM Q1

* File 25, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4123	0.1407	0.0239	0.0021	0.0571	0.0055	1.0000		

Composite Emission Factors (g/mi):										
Composite NOX :	0.711	1.261	1.339	1.281	2.606	0.358	0.554	5.232	1.83	1.335

* * * * *
* Urban minor arterial TDM Q1
* File 25, Run 1, Scenario 9.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

```

* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:      LDGV      LDGT12      LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV      MC      All Veh
GVWR:             -----             -----             -----             -----             -----
VMT Distribution:  0.3683      0.4239      0.1445      (All)      0.0163      0.0003      0.0021      0.0389      0.0057      1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX :    0.713      1.263      1.341      1.283      2.624      0.359      0.557      5.255      1.84      1.251
-----

* * * * *
* Urban collector TDM Q1
* File 25, Run 1, Scenario 10.
* * * * *
```

The user supplied arterial average speed of 41.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.716	1.267	1.345	1.287	2.646	0.364	0.564	5.327	1.85	1.230

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Composite NOx :	0.727	1.281	1.357	1.300	2.721	0.381	0.591	5.580	1.87	1.375
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

```

* * * * *
* Rural interstate Rural
* File 25, Run 1, Scenario 12.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M 96 Warning:
    66.0    speed reduced to 65 mph maximum
M581 Warning:
    The user supplied freeway average speed of 65.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

Calendar Year: 2011

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

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Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.724 1.277 1.354 1.297 2.704 0.377 0.584 5.511 1.87 1.523

```

* * * * *
* Rural major collector Rural
* File 25, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 43.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
  
```

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.722	1.274	1.351	1.294	2.686	0.373	0.578	5.454	1.86	1.343

* * * * *
* Rural minor collector Rural
* File 25, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3585	0.4124	0.1407		0.0239	0.0003	0.0021	0.0567	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.719	1.271	1.348	1.290	2.666	0.369	0.571	5.394	1.85	1.352

* * * * *
* Rural local Rural
* File 25, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3467	0.3991	0.1361	-----	0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

Composite Emission Factors (g/ml):	0.719	1.271	1.348	1.290	2.666	0.369	0.571	5.387	1.85	1.457

* * * * *
 * Urban interstate Rural
 * File 25, Run 1, Scenario 18.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment:
 User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0521	0.0003	0.0018	0.1241	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.780	1.351	1.423	1.369	3.077	0.634	0.985	9.908	2.51	2.333

* * * * *
* Urban freeway Rural
* File 25, Run 1, Scenario 19.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	0.4123	0.1407	>6000	0.0239	0.0003	0.0021	0.0571	0.0055	1.0000
VMT Distribution:	0.3582	0.4123	0.1407		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.717	1.272	1.354	1.292	2.410	0.356	0.552	5.209	1.71	1.337

* # # # # # # # # # # # # # # # # # #
* Urban minor arterial Rural
* File 25, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.708	1.258	1.339	1.279	2.471	0.352	0.546	5.150	1.76	1.240

* # # # # # # # # # # # # # # # #										
* Urban collector Rural										
* File 25, Run 1, Scenario 22.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3713	0.4275	0.1458	>6000	0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.710	1.262	1.343	1.282	2.450	0.353	0.547	5.160	1.74	1.216

* # # # # # # # # # # # # # # # #
* Urban local Rural
* File 25, Run 1, Scenario 23.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3582	0.4121	0.1407		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.710	1.262	1.343	1.282	2.449	0.353	0.547	5.160	1.74	1.328

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.507	0.895	0.932	0.905	2.653	0.651	0.989	9.379	1.98	2.563

* * * * *
* Rural minor arterial TDM Q2
* File 6, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3413	0.3929	0.1340		0.0367	0.0003	0.0020	0.0875	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.480	0.854	0.892	0.864	2.420	0.412	0.624	5.584	1.55	1.206

* * * * *
* Rural major collector TDM Q2
* File 6, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDVT	HDDV	MC	All Veh
VMT Distribution:	0.3602	0.4146	0.1413	---	0.0224	0.0003	0.0021	0.0535	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.465	0.832	0.871	0.842	2.288	0.357	0.541	4.833	1.43	0.955

```
* * * * *
* Rural minor collector TDM Q2
* File 6, Run 1, Scenario 4.
* * * * *
```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

- * Reading the Second PM Deterioration Rates
- * from the external data file PMDDR2.CSV
- * Rural minor collector mix and speeds

M615 Comment :

User supplied VMT mix.

ng: The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.474	0.846	0.884	0.856	2.370	0.387	0.586	5.248	1.49	1.007

* * * * *
* Rural local TDM Q2
* File 6, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.
The user supplied arterial average speed of 49.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000
Composite Emission Factors (g/mi):	0.476	0.849	0.886	0.858	2.387	0.394	0.596	5.335	1.50	1.127

* # # # # # # # # # # # # # # # # # #
* Urban interstate TDM Q2
* File 6, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M 96 Warning:

68.0 speed reduced to 65 mph maximum

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.507	0.895	0.932	0.905	2.653	0.651	0.989	9.386	1.98	1.926
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* #

* Urban freeway TDM Q2

* File 6, Run 1, Scenario 7.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 57.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.491	0.872	0.909	0.881	2.521	0.488	0.740	7.131	1.74	1.337

* # # # # # # # # # # # # # # # # # # #
 * Urban principle arterial TDM Q2
 * File 6, Run 1, Scenario 8.
 * # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.459	0.822	0.862	0.832	2.219	0.343	0.518	4.635	1.40	0.951

* # # # # # # # # # # # # # # # #
* Urban minor arterial TDM Q2
* File 6, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

Composite Emission Factors (g/mi):
Composite NOX: 0.462

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* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local TDM Q2
* File 6, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT (All) HDGV HDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 -----

```


On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3352	0.3859	0.1316		0.0413	0.0003	0.0019	0.0986	0.0052	1.0000

Composite Emission Factors (g/ml):
 Composite NOX : 0.471 0.841 0.879 0.850 2.337 0.373 0.564 5.537 1.45 1.249

* * * * *
 * Rural minor arterial Rural
 * File 6, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3413	0.3929	0.1340		0.0367	0.0003	0.0020	0.0875	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.467	0.835	0.874	0.845	2.303	0.361	0.547	4.883	1.43	1.125

* * * * *
 * Rural major collector Rural
 * File 6, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July

Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0224	0.0003	0.0021	0.0535	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.465	0.832	0.871	0.842	2.288	0.357	0.541	4.833	1.43	0.955

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural minor collector Rural										
* File 6, Run 1, Scenario 16.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	0.4124	0.1406	>6000	0.0238	0.0003	0.0021	0.0568	0.0055	1.0000
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000
Composite Emission Factors (g/ml):	0.464	0.830	0.869	0.840	2.270	0.353	0.534	4.779	1.42	0.965
Composite NOX :	0.464	0.830	0.869	0.840	2.270	0.353	0.534	4.779	1.42	0.965

* * * * *
* Rural local Rural
* File 6, Run 1, Scenario 17.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.464	0.830	0.868	0.840	2.271	0.353	0.534	4.773	1.42	1.064

* * * * *
 * Urban interstate Rural
 * File 6, Run 1, Scenario 18.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning: The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.503	0.890	0.926	0.899	2.621	0.607	0.921	8.772	1.92	1.844

* * * * *
* Urban freeway Rural
* File 6, Run 1, Scenario 19.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.489	0.869	0.906	0.878	2.504	0.472	0.715	6.902	1.71	1.315

* * * * *
 * Urban principle arterial Rural
 * File 6, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.466	0.830	0.871	0.840	2.053	0.341	0.516	4.615	1.31	0.953

* * * * *

* Urban minor arterial Rural

* File 6, Run 1, Scenario 21.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.459	0.820	0.861	0.831	2.104	0.337	0.510	4.563	1.35	0.862

* * * * *
* Urban collector Rural
* File 6, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.461	0.823	0.863	0.833	2.087	0.338	0.511	4.572	1.34	0.839

* # # # # # # # # # # # # # # # #
* Urban Local Rural
* File 6, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.461	0.823	0.863	0.833	2.086	0.338	0.511	4.572	1.34	0.946


```

*****
* MOBILE6.2.03 (24-Sep-2003)
*
* Input file: DAV11P2N.IN (file 26, run 1).
*****

```

```

** # # # # # # # # # # # # # # # #
** Rural interstate TDM Q2
** File 26, Run 1, Scenario 1.
** # # # # # # # # # # # # # # # #

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

User supplied VMT mix.

68.0 speed reduced to 65 mph maximum

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

Minimum Temperature:	58.5	(F)
Maximum Temperature:	77.1	(F)
Minimum Rel. Hum.:	44.3	(%)
Maximum Rel. Hum.:	82.0	(%)

Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.614	1.065	1.073	1.067	2.653	0.651	0.989	9.379	1.98	2.664
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Rural minor arterial TDM Q2
 * File 26, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 51.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)

Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VT Distribution:	0.3413	0.3929	0.1340		0.0367	0.0003	0.0020	0.0875	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.584	1.021	1.031	1.023	2.420	0.412	0.624	5.584	1.55	1.326

* * * * *
 * Rural major collector TDM Q2
 * File 26, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July

Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0224	0.0003	0.0021	0.0535	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.569	0.998	1.010	1.001	2.288	0.357	0.541	4.833	1.43	1.080

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural minor collector TDM Q2										
* File 26, Run 1, Scenario 4.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 48.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.578	1.012	1.023	1.015	2.370	0.387	0.586	5.248	1.49	1.132

* * * * *
* Rural local TDM Q2
* File 26, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.580	1.015	1.025	1.017	2.387	0.394	0.596	5.335	1.50	1.248

- * * * * *
- * Urban interstate TDM Q2
- * File 26, Run 1, Scenario 6.
- * * * * *
- * Reading PM Gas Carbon ZML Levels
- * from the external data file PMGZML.CSV
- * Reading PM Gas Carbon DR1 Levels
- * from the external data file PMGDR1.CSV
- * Reading PM Gas Carbon DR2 Levels
- * from the external data file PMGDR2.CSV
- * Reading PM Diesel Zero Mile Levels
- * from the external data file PMDZML.CSV
- * Reading the First PM Deterioration Rates
- * from the external data file PMDDR1.CSV
- * Reading the Second PM Deterioration Rates
- * from the external data file PMDDR2.CSV
- * Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3210	0.3696	0.1261	>6000	0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.614	1.065	1.073	1.067	2.653	0.651	0.989	9.386	1.98	2.041

* * * * *

* Urban freeway TDM Q2

* File 26, Run 1, Scenario 7.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3429	0.3950	0.1347	>6000	0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.597	1.040	1.049	1.042	2.521	0.488	0.740	7.131	1.74	1.458
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* * * * *

* Urban principle arterial TDM Q2

* File 26, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.561	0.987	1.001	0.990	2.219	0.343	0.518	4.635	1.40	1.075

* * * * *
 * Urban minor arterial TDM Q2
 * File 26, Run 1, Scenario 9.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

The user supplied arterial average speed of 40.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GWR:										
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.563	0.989	1.002	0.992	2.235	0.344	0.521	4.656	1.41	0.998

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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.565	0.992	1.005	0.995	2.253	0.349	0.528	4.720	1.42	0.978

* #

Calendar Year: 2011										
Month:	July									
Altitude: Low										
Minimum Temperature:	58.5 (F)									
Maximum Temperature:	77.1 (F)									
Minimum Rel. Hum.:	44.3 (%)									
Maximum Rel. Hum.:	82.0 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	10.1 psi									
Weathered RVP:	10.1 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program: No										
Evap I/M Program:	No									
ATP Program:	Yes									
Reformulated Gas:	No									
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000
Composite Emission Factors (g/mi):										

Composite NOx :	0.572	1.003	1.015	1.006	2.318	0.365	0.552	4.944	1.44	1.109
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural interstate Rural										
* File 26, Run 1, Scenario 12.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural interstate mix and speeds										
M615 Comment:										
	User supplied VMT mix.									
M 96 Warning:										
	66.0	speed reduced to 65	mph maximum							
M581 Warning:										
	The user supplied freeway average speed of 65.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:										
	there are no sales for vehicle class HDGV8b									
Calendar Year:	2011									
Month:	July									
Altitude:	Low									
Minimum Temperature:	58.5 (F)									
Maximum Temperature:	77.1 (F)									
Minimum Rel. Hum.:	44.3 (%)									
Maximum Rel. Hum.:	82.0 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	10.1 psi									
Weathered RVP:	10.1 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program:	No									
Evap I/M Program:	No									
ATP Program:	Yes									
Reformulated Gas:	No									

Exhaust I/M Program: No

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Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3413	0.3929	0.1340	0.0367	0.0003	0.0020	0.0875	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.570	1.000	1.013	1.004	2.303	0.361	0.547	4.883	1.43	1.244

* * * * *
 * Rural major collector Rural
 * File 26, Run 1, Scenario 15.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* * * * *
* Rural minor collector Rural
* File 26, Run 1, Scenario 16.
* * * * *

```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDRI.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
```

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
```

M615 Comment :

User supplied VMT mix.

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.567	0.995	1.008	0.998	2.270	0.353	0.534	4.779	1.42	1.090

* * * * *
* Rural local Rural
* File 26, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000
Composite Emission Factors (g/ml):	0.567	0.995	1.008	0.998	2.271	0.353	0.534	4.773	1.42	1.185

* * * * *
* Urban interstate Rural
* File 26, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/ml):	0.609	1.059	1.067	1.061	2.621	0.607	0.921	8.772	1.92	1.959

* * * * *
 * Urban freeway Rural
 * File 26, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.594	1.036	1.046	1.039	2.504	0.472	0.715	6.902	1.71	1.436

* # # # # # # # # # # # # # # # #										
* Urban principle arterial Rural										
* File 26, Run 1, Scenario 20.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.562	0.986	1.001	0.990	2.104	0.337	0.510	4.563	1.35	0.990

* #
 * Urban collector Rural
 * File 26, Run 1, Scenario 22.
 * #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.564	0.989	1.004	0.993	2.086	0.338	0.511	4.572	1.34	1.071

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.451	0.784	0.816	0.792	2.753	0.651	0.989	9.379	1.66	2.505

* * * * *
 * Rural minor arterial TDM Q3
 * File 7, Run 1, Scenario 2.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds
 M615 Comment:
 M583 Warning:
 User supplied VMT mix.
 The user supplied arterial average speed of 51.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3413	0.3929	0.1340		0.0367	0.0003	0.0020	0.0875	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.430	0.748	0.781	0.756	2.511	0.412	0.624	5.584	1.30	1.134

* * * * *
 * Rural major collector TDM Q3
 * File 7, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0224	0.0003	0.0021	0.0535	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.419	0.728	0.763	0.737	2.374	0.357	0.541	4.833	1.20	0.880

* * * * *	* * * * *	* * * * *	* * * * *							
* Rural minor collector TDM Q3										
* File 7, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway									

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.426	0.740	0.774	0.749	2.460	0.387	0.586	5.248	1.25	0.932

* * * * *
* Rural local TDM Q3
* File 7, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 49.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.427	0.743	0.776	0.751	2.477	0.394	0.596	5.335	1.26	1.054

* * * * *
* Urban interstate TDM Q3
* File 7, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.
 M 96 Warning: 68.0 speed reduced to 65 mph maximum
 M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.451	0.784	0.816	0.792	2.753	0.651	0.989	9.386	1.66	1.857

* * * * *
 * Urban freeway TDM Q3
 * File 7, Run 1, Scenario 7.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.413	0.719	0.754	0.728	2.303	0.343	0.518	4.635	1.18	0.878

* * * * *
* Urban minor arterial TDM Q3
* File 7, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.414	0.720	0.756	0.729	2.319	0.344	0.521	4.656	1.18	0.794

* * * * *
* Urban collector TDM Q3
* File 7, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
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GVWR: <6000 >6000

VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000
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Composite Emission Factors (g/ml):

Composite NOX :	0.416	0.723	0.758	0.732	2.338	0.349	0.528	4.720	1.19	0.772
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* * * * *
 * Urban local TDM Q3
 * File 7, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3582	0.4121	0.1406	-----	0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3352	0.3859	0.1316		0.0413	0.0003	0.0019	0.0986	0.0052	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.423 0.735 0.769 0.744 2.425 0.373 0.564 5.537 1.22 1.180

* * * * *
* Rural minor arterial Rural
* File 7, Run 1, Scenario 14.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3413	0.3929	0.1340	0.0367	0.0003	0.0020	0.0875	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.420	0.730	0.765	0.739	2.390	0.361	0.547	4.883	1.20	1.055

* * * * *
* Rural major collector Rural
* File 7, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3602	0.4146	0.1413		0.0224	0.0003	0.0021	0.0535	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.419	0.728	0.763	0.737	2.374	0.357	0.541	4.833	1.20	0.880

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural minor collector Rural	#	#	#	#	#	#	#	#	#	#
* File 7, Run 1, Scenario 16.	#	#	#	#	#	#	#	#	#	#
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR1 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR2 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Diesel Zero Mile Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the First PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the Second PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Rural minor collector mix and speeds	#	#	#	#	#	#	#	#	#	#
M615 Comment:	#	#	#	#	#	#	#	#	#	#
User supplied VMT mix.										
M583 Warning:	#	#	#	#	#	#	#	#	#	#
The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:	#	#	#	#	#	#	#	#	#	#
there are no sales for vehicle class HDGV8b										

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000
Composite Emission Factors (g/ml):	0.417	0.726	0.760	0.735	2.356	0.353	0.534	4.779	1.19	0.891

* * * * *
* Rural local Rural
* File 7, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.417	0.726	0.760	0.734	2.356	0.353	0.534	4.773	1.19	0.994

* * * * *
* Urban interstate Rural
* File 7, Run 1, Scenario 18.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

M581 Warning: User supplied VMT mix.
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.448	0.779	0.811	0.787	2.720	0.607	0.921	8.772	1.61	1.775

* # # # # # # # # # # # # # # # # # #
* Urban freeway Rural
* File 7, Run 1, Scenario 19.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.438	0.761	0.793	0.769	2.599	0.472	0.715	6.902	1.43	1.241

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial Rural

* File 7, Run 1, Scenario 20.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.425	0.728	0.765	0.737	2.130	0.341	0.516	4.615	1.10	0.882

* # # # # # # # # # # # # # # # # # #
 * Urban minor arterial Rural
 * File 7, Run 1, Scenario 21.
 * # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

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* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.419	0.721	0.757	0.730	2.165	0.338	0.511	4.572	1.12	0.764

* # # # # # # # # # # # # # # # #
* Urban local Rural
* File 7, Run 1, Scenario 23.
* # # # # # # # # # # # # # # # #

```
M 48 Warning:
there are no sales for vehicle class HDGV8b
```

	Altitude:	Low
Minimum Temperature:		68.2 (F)
Maximum Temperature:		83.1 (F)
Minimum Rel. Hum.:		56.8 (%)
Maximum Rel. Hum.:		86.8 (%)
Barometric Pressure:		30.00 (in)
Nominal Fuel RVP:		7.8 psi
Weathered RVP:		7.7 psi
Fuel Sulfur Content:		30. ppm

Exhaust	I/M Program:	Yes
Evap	I/M Program:	Yes
	ATP Program:	Yes
Reformulated Gas:		No

Composite Emission Factors (g/mi):


```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: DAVILP3N.IN (file 27, run 1). *
*****
```

```

** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
** Rural interstate TDM Q3
**
** File 27, Run 1, Scenario 1.
**

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

User supplied VMT mix.

68.0 speed reduced to 65 mph maximum

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

Minimum Temperature:	68.2	(F)
Maximum Temperature:	83.1	(F)
Minimum Rel. Hum.:	56.8	(%)
Maximum Rel. Hum.:	86.8	(%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/ml):
 Composite NOX : 0.545 0.933 0.941 0.935 2.753 0.651 0.989 9.379 1.66 2.594

* * * * *
 * Rural minor arterial TDM Q3
 * File 27, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3413	0.3929	0.1340		0.0367	0.0003	0.0020	0.0875	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.522	0.893	0.904	0.896	2.511	0.412	0.624	5.584	1.30	1.239

* * * * *
 * Rural major collector TDM Q3
 * File 27, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0224	0.0003	0.0021	0.0535	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.510	0.873	0.885	0.876	2.374	0.357	0.541	4.833	1.20	0.990

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural minor collector TDM Q3										
* File 27, Run 1, Scenario 4.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.518	0.886	0.897	0.888	2.460	0.387	0.586	5.248	1.25	1.042

* * * * *
* Rural local TDM Q3
* File 27, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 49.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.519	0.888	0.899	0.891	2.477	0.394	0.596	5.335	1.26	1.161

* * * * *
* Urban interstate TDM Q3
* File 27, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M 96 Warning: 68.0 speed reduced to 65 mph maximum
M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.545	0.933	0.941	0.935	2.753	0.651	0.989	9.386	1.66	1.957

* * * * *
* Urban freeway TDM Q3
* File 27, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3429	0.3950	0.1347	>6000	0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.532	0.910	0.920	0.913	2.617	0.488	0.740	7.131	1.46	1.369
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* #

* Urban principle arterial TDM Q3

* File 27, Run 1, Scenario 8.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.505	0.863	0.877	0.867	2.303	0.343	0.518	4.635	1.18	0.988

* * * * *

* Urban minor arterial TDM Q3

* File 27, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

```

* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 40.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

                    Calendar Year: 2011
                           Month: July
                           Altitude: Low
                    Minimum Temperature: 68.2 (F)
                    Maximum Temperature: 83.1 (F)
                           Minimum Rel. Hum.: 56.8 (%)
                           Maximum Rel. Hum.: 86.8 (%)
                    Barometric Pressure: 30.00 (inches Hg)
                    Nominal Fuel RVP: 7.8 psi
                    Weathered RVP: 7.7 psi
                    Fuel Sulfur Content: 30. ppm

                    Exhaust I/M Program: No
                    Evap I/M Program: No
                    ATP Program: Yes
                    Reformulated Gas: No

Vehicle Type:      LDGV      LDGT12      LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV      MC      All Veh
GVWR:              -----
VMT Distribution:  0.3683      0.4239      0.1445      (All)      0.0163      0.0003      0.0021      0.0389      0.0057      1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX :    0.506      0.865      0.878      0.868      2.319      0.344      0.521      4.656      1.18      0.907
-----

* * * * *
* Urban collector TDM Q3
* File 27, Run 1, Scenario 10.
* * * * *
```

The user supplied arterial average speed of 41.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.508	0.868	0.881	0.871	2.338	0.349	0.528	4.720	1.19	0.886

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Composite Emission Factors (g/mi):

Composite NOx :	0.513	0.878	0.890	0.881	2.405	0.365	0.552	4.944	1.21	1.019
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```

* * * * *
* Rural interstate Rural
* File 27, Run 1, Scenario 12.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M 96 Warning:
    66.0    speed reduced to 65 mph maximum
M581 Warning:
    The user supplied freeway average speed of 65.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
  
```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

there are no sales for vehicle class HDGV8b

Exhaust I/M Program: No

	Altitude:	Low
Minimum Temperature:	68.2	(F)
Maximum Temperature:	83.1	(F)
Minimum Rel. Hum.:	56.8	(%)
Maximum Rel. Hum.:	86.8	(%)
Barometric Pressure:	30.00	(in)
Nominal Fuel RVP:	7.8	psi

Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3413	0.3929	0.1340		0.0367	0.0003	0.0020	0.0875	0.0053	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.512 0.875 0.888 0.878 2.390 0.361 0.547 4.883 1.20 1.160

* * * * *
 * Rural major collector Rural
 * File 27, Run 1, Scenario 15.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* * * * *
* Rural minor collector Rural
* File 27, Run 1, Scenario 16.
* * * * *

```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.csv

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

- * Reading the Second PM Deterioration Rates
- * from the external data file PMDDR2.CSV
- * Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

MS83 Warning:
The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```

M 48 Warning:
there are no sales for vehicle class HDGV8b

```

Calendar Year: 2011

Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.509	0.870	0.883	0.873	2.356	0.353	0.534	4.779	1.19	1.001

* * * * *
* Rural local Rural
* File 27, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000
Composite Emission Factors (g/ml):	0.509	0.870	0.883	0.873	2.356	0.353	0.534	4.773	1.19	1.100

* * * * *
* Urban interstate Rural
* File 27, Run 1, Scenario 18.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/ml):	0.542	0.927	0.936	0.929	2.720	0.607	0.921	8.772	1.61	1.875

* * * * *
 * Urban freeway Rural
 * File 27, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.530	0.907	0.917	0.910	2.599	0.472	0.715	6.902	1.43	1.347

* # # # # # # # # # # # # # # # #
* Urban principle arterial Rural
* File 27, Run 1, Scenario 20.
* # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	0.4123	0.1406	>6000	0.0239	0.0003	0.0021	0.0571	0.0055	1.0000
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.520	0.874	0.890	0.878	2.130	0.341	0.516	4.615	1.10	0.993

* # # # # # # # # # # # # # # # # # #
* Urban minor arterial Rural
* File 27, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```

* * * * *
* Urban collector Rural
* File 27, Run 1, Scenario 22.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```


* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.512	0.866	0.881	0.870	2.165	0.338	0.511	4.572	1.12	0.985

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: DAVILP4.IN (file 8, run 1).
*****
** Reading Registration Distributions from the following external
** data file: NCAGE07.PRN
**
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
** Rural interstate TDM Q4
** File 8, Run 1, Scenario 1.
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
**
** Reading PM Gas Carbon ZML Levels
** from the external data file PMGZML.CSV
**
** Reading PM Gas Carbon DR1 Levels
** from the external data file PMGDR1.CSV
**
** Reading PM Gas Carbon DR2 Levels
** from the external data file PMGDR2.CSV
**
** Reading PM Diesel Zero Mile Levels
** from the external data file PWDZML.CSV
**
** Reading the First PM Deterioration Rates
** from the external data file PWDDR1.CSV
**
** Reading the Second PM Deterioration Rates
** from the external data file PWDDR2.CSV
** Rural interstate mix and speeds
** M615 Comment: User supplied VMT mix.
** M 96 Warning: 68.0 speed reduced to 65 mph maximum
**
** M581 Warning:
** The user supplied freeway average speed of 65.0
** will be used for all hours of the day. 100% of VMT
** has been assigned to the freeway roadway type for
** all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D
** M 48 Warning:
** there are no sales for vehicle class HDGV8b
**
** M 48 Warning:
** there are no sales for vehicle class LDDT12
**
** Calendar Year: 2012
** Month: Jan.
** Altitude: Low
** Minimum Temperature: 44.0 (F)
** Maximum Temperature: 55.9 (F)

```

Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2839	0.3263	0.1113		0.0806	0.0002	0.0016	0.1917	0.0044	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.545	1.029	1.086	1.043	2.639	0.508	0.914	9.127	2.43	2.586

* * * * *
* Rural minor arterial TDM Q4
* File 8, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.512	0.983	1.040	0.998	2.407	0.321	0.577	5.469	1.90	1.278

* * * * *
* Rural major collector TDM Q4
* File 8, Run 1, Scenario 3.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector road way
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.494	0.958	1.017	0.973	2.276	0.278	0.499	4.741	1.75	1.034

* * * * * Rural minor collector TDM Q4

* * * * * File 8, Run 1, Scenario 4.

* * * * *

* * * * *

* * * * * Reading PM Gas Carbon ZML Levels

* * * * * from the external data file PMGZML.CSV

* * * * * Reading PM Gas Carbon DR1 Levels

* * * * * from the external data file PMGDR1.CSV

* * * * * Reading PM Gas Carbon DR2 Levels

* * * * * from the external data file PMGDR2.CSV

* * * * * Reading PM Diesel Zero Mile Levels

* * * * * from the external data file PMDZML.CSV

* * * * * Reading the First PM Deterioration Rates

* * * * * from the external data file PMDDR1.CSV

* * * * * Reading the Second PM Deterioration Rates

* * * * * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1407		0.0239	0.0003	0.0020	0.0567	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.505	0.974	1.031	0.988	2.358	0.302	0.542	5.143	1.82	1.087

* # # # # # # # # # # # # # # # # # #
* Rural local TDM Q4
* File 8, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3210	0.3696	0.1261		0.0522	0.0003	0.0018	0.1240	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.545	1.029	1.086	1.043	2.639	0.508	0.914	9.133	2.43	1.977

* # # # # # # # # # # # # # # # #
* Urban freeway TDM Q4

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

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December 18, 2009

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.487	0.949	1.007	0.964	2.223	0.268	0.481	4.569	1.73	0.952
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* * * * *

* Urban collector TDM Q4

* File 8, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VTM Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.489	0.952	1.010	0.967	2.242	0.272	0.488	4.631	1.74	0.933

* * * * *
 * Urban local TDM Q4
 * File 8, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4121	0.1407		0.0240	0.0003	0.0020	0.0572	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.498	0.964	1.022	0.979	2.306	0.284	0.510	4.848	1.76	1.063

* * * * * Rural interstate Rural

* * * * * File 8, Run 1, Scenario 12.

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The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap	I/M	Program:	Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:		<6000	>6000							

VMT Distribution:	0.2839	0.3263	0.1113	0.0806	0.0002	0.0016	0.1917	0.0044	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.545	1.029	1.086	1.043	2.639	0.508	0.914	9.127	2.43	2.586
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[illegible]

* Rural principle arterial Rural

* File 8, Run 1, Scenario 13.

[illegible]

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.csv

* Reading	PM	Gas	Carbon	DR1 Levels
-----------	----	-----	--------	------------

* from the external data file PMGDR1.csv

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	-----	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3352	0.3859	0.1316		0.0414	0.0003	0.0019	0.0985	0.0052	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.501	0.968	1.025	0.982	2.325	0.290	0.521	5.400	1.78	1.315
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural minor arterial Rural

* File 8, Run 1, Scenario 14.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3602	0.4146	0.1413	-----	0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.494	0.958	1.017	0.973	2.276	0.278	0.499	4.741	1.75	1.034

* #

Calendar Year:	2012
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

1202
Appendix C.3
December 18, 2009

```

-----Composite Emission Factors (g/mi):-----
Composite NOx : 0.492 0.955 1.014 0.970 2.259 0.275 0.494 4.688 1.74 1.043
-----
* * * * *
* Rural local Rural
* File 8, Run 1, Scenario 17.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 42.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
      there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

```

Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3467	0.3991	0.1361	0.0327	0.0003	0.0020	0.0777	0.0054	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.492	0.955	1.014	0.970	2.259	0.275	0.494	4.682	1.74	1.138

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban interstate Rural										
* File 8, Run 1, Scenario 18.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment: User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 63.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2012										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0522	0.0003	0.0018	0.1240	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.541	1.023	1.080	1.037	2.608	0.474	0.852	8.538	2.36	1.896

* # # # # # # # # # # # # # # # #										
* Urban freeway Rural										
* File 8, Run 1, Scenario 19.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 56.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year: 2012
Month: Jan.
Altitude: Low

Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.524	0.999	1.056	1.014	2.491	0.368	0.661	6.725	2.09	1.384

* * * * *
* Urban principle arterial Rural
* File 8, Run 1, Scenario 20.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1407		0.0240	0.0003	0.0020	0.0570	0.0055	1.0000

Composite Emission Factors (g/ml):	0.489	0.954	1.014	0.969	2.042	0.266	0.477	4.529	1.61	1.028

* * * * *
 * Urban minor arterial Rural
 * File 8, Run 1, Scenario 21.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.483	0.944	1.004	0.959	2.093	0.263	0.471	4.478	1.65	0.942

* # # # # # # # # # # # # # # # # # #

* Urban collector Rural

* File 8, Run 1, Scenario 22.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.484	0.946	1.006	0.961	2.076	0.263	0.472	4.487	1.64	0.920

* # # # # # # # # # # # # # # # #
 * Urban local Rural
 * File 8, Run 1, Scenario 23.
 * # # # # # # # # # # # # # # # #
 *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3582	0.4121	0.1407		0.0240	0.0003	0.0020	0.0572	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.484	0.946	1.006	0.961	2.075	0.263	0.472	4.487	1.64	1.021

```
*****  
** MOBILE6.2.O3 (24-Sep-2003) *****  
** Input file: DAVILP4N.IN (file 28, run 1). *****  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q4  
* File 28, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV  
  
* Reading PM Diesel Zero Mile Levels  
* from the external data file PMDZML.CSV  
  
* Reading the First PM Deterioration Rates  
* from the external data file PMDDR1.CSV  
  
* Reading the Second PM Deterioration Rates  
* from the external data file PMDDR2.CSV  
* Rural interstate mix and speeds  
M615 Comment: User supplied VMT mix.  
M 96 Warning: 68.0 speed reduced to 65 mph maximum  
  
M581 Warning:  
The user supplied freeway average speed of 65.0  
will be used for all hours of the day. 100% of VMT  
has been assigned to the freeway roadway type for  
all hours of the day and all vehicle types.  
M 48 Warning:  
there are no sales for vehicle class HDGV8b  
M 48 Warning:  
there are no sales for vehicle class LDDT12  
  
Calendar Year: 2012  
Month: Jan.  
Altitude: Low  
Minimum Temperature: 44.0 (F)  
Maximum Temperature: 55.9 (F)  
Minimum Rel. Hum.: 61.6 (%)  
Maximum Rel. Hum.: 85.1 (%)  
Barometric Pressure: 30.00 (inches Hg)
```

Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2839	0.3263	0.1113		0.0806	0.0002	0.0016	0.1917	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.680	1.223	1.268	1.234	2.639	0.508	0.914	9.127	2.43	2.708

* * * * *
 * Rural minor arterial TDM Q4
 * File 28, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 51.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.643	1.173	1.219	1.184	2.407	0.321	0.577	5.469	1.90	1.422

* * * * *
* Rural major collector TDM Q4
* File 28, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413	0.0225	0.0003	0.0021	0.0534	0.0056	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.624	1.147	1.195	1.159	2.276	0.278	0.499	4.741	1.75	1.184

* * * * *
* Rural minor collector TDM Q4
* File 28, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1407		0.0239	0.0003	0.0020	0.0567	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.636	1.163	1.210	1.175	2.358	0.302	0.542	5.143	1.82	1.237

* * * * *
* Rural local TDM Q4
* File 28, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0327	0.0003	0.0020	0.0777	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.638	1.166	1.212	1.178	2.374	0.307	0.551	5.228	1.84	1.347

* * * * *

* Urban interstate TDM Q4

* File 28, Run 1, Scenario 6.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1261		0.0522	0.0003	0.0018	0.1240	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.680	1.223	1.267	1.234	2.639	0.508	0.914	9.133	2.43	2.115

* # # # # # # # # # # # # # # # # # #
 * Urban freeway TDM Q4
 * File 28, Run 1, Scenario 7.
 * # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 57.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3429	0.3950	0.1347		0.0355	0.0003	0.0020	0.0843	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.659	1.194	1.239	1.206	2.509	0.381	0.684	6.946	2.13	1.552

* * * * *
 * Urban principle arterial TDM Q4
 * File 28, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

VMT Distribution:  0.3582  0.4123  0.1407  0.1407  0.0240  0.0020  0.0003  0.0570  0.0055  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :    0.614    1.134    1.184    1.147    2.208    0.479    0.267    4.549    1.72    1.177
-----

```

```

* * * * *
* Urban minor arterial TDM Q4
* File 28, Run 1, Scenario 9.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

```

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Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.619	1.140	1.189	1.152	2.242	0.272	0.488	4.631	1.74	1.087

* * * * *
* Urban local TDM Q4
* File 28, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012


```
* * * * * Rural interstate Rural
* * File 28, Run 1, Scenario 12.
* * * * *
* * Reading PM Gas Carbon ZML Levels
* * from the external data file PMGZML.CSV
* *
* * Reading PM Gas Carbon DR1 Levels
* * from the external data file PMGDR1.CSV
* *
* * Reading PM Gas Carbon DR2 Levels
* * from the external data file PMGDR2.CSV
* *
* * Reading PM Diesel Zero Mile Levels
* * from the external data file PMDZML.CSV
* *
* * Reading the First PM Deterioration Rates
* * from the external data file PMDDR1.CSV
* *
* * Reading the Second PM Deterioration Rates
* * from the external data file PMDDR2.CSV
* * Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.
```

M 96 Warning: speed reduced to 65 mph maximum

MS91 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT

has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2839	0.3263	0.1113		0.0806	0.0002	0.0016	0.1917	0.0044	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.680	1.223	1.268	1.234	2.639	0.508	0.914	9.127	2.43	2.708

* * * * *

* Rural principle arterial Rural

* File 28, Run 1, Scenario 13.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3352	0.3859	0.1316		0.0414	0.0003	0.0019	0.0985	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.631	1.156	1.204	1.168	2.325	0.290	0.521	5.400	1.78	1.455

* # # # # # # # # # # # # # # # # # #

* Rural minor arterial Rural

* File 28, Run 1, Scenario 14.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413	0.0225	0.0003	0.0021	0.0534	0.0056	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.624	1.147	1.195	1.159	2.276	0.278	0.499	4.741	1.75	1.184

* # # # # # # # # # # # # # # # #
* Rural minor collector Rural
* File 28, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3585	0.4124	0.1407		0.0239	0.0003	0.0020	0.0567	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.621	1.143	1.192	1.156	2.259	0.275	0.494	4.688	1.74	1.192

GVWR:	<6000	>6000	(All)						
VT Distribution:	0.3467	0.3991	0.1361						

Composite Emission Factors (g/ml):

Composite NOX :	0.621	1.143	1.192	1.156	2.259	0.275	0.494	4.682	1.74	1.282
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* * * * *

* Urban interstate Rural

* File 28, Run 1, Scenario 18.

* * * * *

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						

VMT Distribution:	0.3210	0.3696	0.1261		0.0522	0.0003	0.0018	0.1240	0.0050	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.675	1.216	1.261	1.227	2.608	0.474	0.852	8.538	2.36	2.034
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Urban freeway Rural
 * File 28, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year:	2012
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)

Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.656	1.190	1.236	1.202	2.491	0.368	0.661	6.725	2.09	1.530

* * * * *
 * Urban principle arterial Rural
 * File 28, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 29.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

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December 18, 2009

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

* Urban minor arterial mix and speeds
M615 Comment:

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3683	0.4239	0.1445	-----	0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.611	1.132	1.183	1.145	2.093	0.263	0.471	4.478	1.65	1.095
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban collector Rural

* File 28, Run 1, Scenario 22.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3713	0.4275	0.1458	>6000	0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.613	1.135	1.186	1.148	2.076	0.263	0.472	4.487	1.64	1.075

* * * * *

* Urban local Rural

* File 28, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4121	0.1407		0.0240	0.0003	0.0020	0.0572	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.613	1.135	1.186	1.148	2.075	0.263	0.472	4.487	1.64	1.171

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0803	0.0002	0.0017	0.1923	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.451	0.888	0.956	0.905	1.945	0.357	0.725	6.667	2.59	1.985

* * * * *
 * Rural minor arterial TDM Q1
 * File 9, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 51.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12


```

* * * * * Rural major collector TDM Q1
* * * * * File 9, Run 1, Scenario 3.
* * * * *
* * * * *
* * * * * Reading PM Gas Carbon ZML Levels
* * * * * from the external data file PMGZML.CSV
* * * * *
* * * * * Reading PM Gas Carbon DR1 Levels
* * * * * from the external data file PMGDR1.CSV
* * * * *
* * * * * Reading PM Gas Carbon DR2 Levels
* * * * * from the external data file PMGDR2.CSV
* * * * *
* * * * * Reading PM Diesel Zero Mile Levels
* * * * * from the external data file PMDZML.CSV
* * * * *
* * * * * Reading the First PM Deterioration Rates
* * * * * from the external data file PMDDR1.CSV
* * * * *
* * * * * Reading the Second PM Deterioration Rates
* * * * * from the external data file PMDDR2.CSV
* * * * * Rural major collector mix and speeds
* * * * * M615 Comment:
* * * * * User supplied VMT mix.

```

M583 Warning:

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.405	0.826	0.893	0.843	1.664	0.194	0.392	3.419	1.85	0.859
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* *

* Rural minor collector TDM Q1

* File 9, Run 1, Scenario 4.

* *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 37.1 (F)										
Maximum Temperature: 53.6 (F)										
Minimum Rel. Hum.: 45.8 (%)										
Maximum Rel. Hum.: 75.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										

* * * * *

* Rural local TDM Q1

* File 9, Run 1, Scenario 5.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433	0.0325	0.0021	0.0003	0.0777	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.417	0.841	0.908	0.858	1.738	0.212	0.430	3.757	1.94	0.976

* * * * *
* Urban interstate TDM Q1
* File 9, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1327		0.0520	0.0003	0.0019	0.1242	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.451	0.888	0.956	0.905	1.945	0.357	0.725	6.667	2.59	1.549

* * * * *
* Urban freeway TDM Q1
* File 9, Run 1, Scenario 7.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.

M581 Warning:
    The user supplied freeway average speed of 56.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2014
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 37.1 (F)
    Maximum Temperature: 53.6 (F)
    Minimum Rel. Hum.: 45.8 (%)
    Maximum Rel. Hum.: 75.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000

VMT Distribution: 0.3151 0.4160 0.1417 0.0352 0.0003 0.0021 0.0844 0.0052 1.0000
-----
Composite Emission Factors (g/ml):

```

Composite NOx :	0.433	0.863	0.930	0.880	1.835	0.259	0.525	4.914	2.23	1.119
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban principle arterial TDM Q1										
* File 9, Run 1, Scenario 8.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban principle arterial mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 38.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2014										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 37.1 (F)										
Maximum Temperature: 53.6 (F)										
Minimum Rel. Hum.: 45.8 (%)										
Maximum Rel. Hum.: 75.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3289	0.4343	0.1480	0.0239	0.0003	0.0022	0.0570	0.0054	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.398	0.816	0.885	0.834	1.615	0.187	0.379	3.308	1.82	0.855

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban minor arterial TDM Q1										
* File 9, Run 1, Scenario 9.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 40.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
M 48 Warning: there are no sales for vehicle class LDDT12										
Calendar Year: 2014										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 37.1 (F)										
Maximum Temperature: 53.6 (F)										
Minimum Rel. Hum.: 45.8 (%)										
Maximum Rel. Hum.: 75.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.401 0.820 0.888 0.837 1.638 0.189 0.382 3.341 1.84 0.805

* * * * *
* Urban collector TDM Q1
* File 9, Run 1, Scenario 10.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1535		0.0139	0.0003	0.0022	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.405	0.826	0.893	0.843	1.665	0.194	0.392	3.428	1.85	0.795

* * * * *
* Urban local TDM Q1
* File 9, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate Rural
* File 9, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDRL1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment : User supplied VMT mix.
M581 Warning: The user supplied freeway average speed
will be used for all hours of the day. I
```

has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0803	0.0002	0.0017	0.1923	0.0043	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.451	0.888	0.956	0.905	1.945	0.357	0.725	6.667	2.59	1.985

* * * * *
* Rural principle arterial Rural
* File 9, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.411	0.833	0.901	0.850	1.699	0.200	0.406	3.861	1.87	1.051

* # # # # # # # # # # # # # # # # # #

* Rural minor arterial Rural

* File 9, Run 1, Scenario 14.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.407	0.828	0.896	0.845	1.676	0.196	0.397	3.459	1.86	0.863

* # # # # # # # # # # # # # # # #
* Rural minor collector Rural
* File 9, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3291	0.4344	0.1480		0.0238	0.0003	0.0022	0.0568	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.405	0.826	0.893	0.843	1.664	0.194	0.392	3.426	1.85	0.869

```

* * * * *
* * Rural local Rural
* * File 9, Run 1, Scenario 17.
* * * * *
*
* * Reading PM Gas Carbon ZML Levels
* * from the external data file PMGZML.CSV
*
* * Reading PM Gas Carbon DR1 Levels
* * from the external data file PMGDR1.CSV
*
* * Reading PM Gas Carbon DR2 Levels
* * from the external data file PMGDR2.CSV
*
* * Reading PM Diesel Zero Mile Levels
* * from the external data file PMDZML.CSV
*
* * Reading the First PM Deterioration Rates
* * from the external data file PMDDR1.CSV
*
* * Reading the Second PM Deterioration Rates
* * from the external data file PMDDR2.CSV
* * Rural local mix and speeds
* M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed
      will be used for all hours of the day.
      has been assigned to the arterial/collector
      type for all hours of the day and all vehicle
M 48 Warning:
      there are no sales for vehicle class F
M 48 Warning:
      there are no sales for vehicle class I

```

Calendar Year:	2014
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1327		0.0520	0.0003	0.0019	0.1242	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOx :	0.445	0.879	0.947	0.897	1.909	0.320	0.649	6.004	2.47	1.458

* * * * *
 * Urban freeway Rural
 * File 9, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.433	0.863	0.930	0.880	1.835	0.259	0.525	4.914	2.23	1.119

* * * * *
 * Urban principle arterial Rural
 * File 9, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDLV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3289	0.4343	0.1480		0.0239	0.0003	0.0022	0.0570	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.406	0.829	0.900	0.847	1.494	0.189	0.382	3.336	1.70	0.862

* * * * *
* Urban minor arterial Rural
* File 9, Run 1, Scenario 21.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3380	0.4465	0.1522	-----	0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.397	0.816	0.885	0.833	1.542	0.185	0.375	3.274	1.76	0.797
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban collector Rural

* File 9, Run 1, Scenario 22.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3410	0.4502	0.1535	-----	0.0139	0.0003	0.0022	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.399	0.818	0.887	0.835	1.530	0.185	0.375	3.280	1.74	0.781

* * * * *
* Urban local Rural
* File 9, Run 1, Scenario 23.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.

Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3288	0.4341	0.1479	>6000	0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.399	0.818	0.887	0.835	1.529	0.185	0.375	3.278	1.74	0.852

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: DAV14PIN.IN (file 29, run 1).
*****
** Reading Registration Distributions from the following external
** data file: NCAGE07.PRN
*****
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
** Rural interstate TDM Q1
** File 29, Run 1, Scenario 1.
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*****
** Reading PM Gas Carbon ZML Levels
** from the external data file PMGZML.CSV
*****
** Reading PM Gas Carbon DR1 Levels
** from the external data file PMGDR1.CSV
*****
** Reading PM Gas Carbon DR2 Levels
** from the external data file PMGDR2.CSV
*****
** Reading PM Diesel Zero Mile Levels
** from the external data file PMDZML.CSV
*****
** Reading the First PM Deterioration Rates
** from the external data file PMDDR1.CSV
*****
** Reading the Second PM Deterioration Rates
** from the external data file PMDDR2.CSV
** Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.
M 96 Warning: 68.0 speed reduced to 65 mph maximum
*****
M581 Warning: The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*****
M 48 Warning: there are no sales for vehicle class HDGV8b
*****
M 48 Warning: there are no sales for vehicle class LDDT12
*****
Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)

```

Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2604	0.3437	0.1171		0.0803	0.0002	0.0017	0.1923	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.604	1.116	1.164	1.128	1.945	0.357	0.725	6.667	2.59	2.128

* * * * *
* Rural minor arterial TDM Q1
* File 29, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488	0.0224	0.0003	0.0022	0.0535	0.0055	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.552	1.046	1.097	1.059	1.664	0.392	3.419	1.85	1.034	

* * * * *
* Rural minor collector TDM Q1
* File 29, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0238	0.0003	0.0022	0.0568	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.565	1.063	1.112	1.075	1.738	0.212	0.430	3.760	1.94	1.079

* * * * *
* Rural local TDM Q1
* File 29, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.565	1.063	1.112	1.075	1.738	0.212	0.430	3.757	1.94	1.146
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban interstate TDM Q1

* File 29, Run 1, Scenario 6.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1327		0.0520	0.0003	0.0019	0.1242	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.604	1.116	1.164	1.128	1.945	0.357	0.725	6.667	2.59	1.711

* * * * *
 * Urban freeway TDM Q1
 * File 29, Run 1, Scenario 7.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.

Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.583	1.087	1.136	1.099	1.835	0.259	0.525	4.914	2.23	1.289

* * * * *
 * Urban principle arterial TDM Q1
 * File 29, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

-----
VMT Distribution:  0.3289  0.4343  0.1480  0.0033  0.0022  0.0570  0.0054  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :    0.544    1.036    1.088    1.049    1.615    0.187    0.379    3.308    1.82    1.028
-----

```

```

* * * * *
* Urban minor arterial TDM Q1
* File 29, Run 1, Scenario 9.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

```

Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.547	1.040	1.091	1.053	1.638	0.189	0.382	3.341	1.84	0.983
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------


```

* # # # # # # # # # # # # # # # # #
* Urban collector TDM Q1
* File 29, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3410	0.4502	0.1535		0.0139	0.0003	0.0022	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.552	1.046	1.097	1.059	1.665	0.194	0.392	3.428	1.85	0.976

* * * * *
* Urban local TDM Q1
* File 29, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

Rural interstate mix and speeds
M615 Comment:

M591 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0803	0.0002	0.0017	0.1923	0.0043	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.604	1.116	1.164	1.128	1.945	0.357	0.725	6.667	2.59	2.128

* * * * *
* Rural principle arterial Rural
* File 29, Run 1, Scenario 13.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds
M615 Comment:

M581 Warning:

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP:	14.0 psi
-------------------	----------

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap	I/M Program:	No
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

ATP Program:	Yes
I/M Program:	No

Reformulated Gas: No
 Air Program: No

type: LDGV LDGT1

pe: ≤ 600
TWR: < 600

[illegible]

GVWR:

• **Summary:**

VMT Distribution:

 .HIOCTOCT TCTCTA TMA

Composite Emission Factors (g/mi):

Composite NOX : 0.558

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
---	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

[illegible]

* Rural minor arterial Rural

* File 29, Run 1, Scenario 14.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	8												

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

** from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file `PMDZML.csv`

* Reading the First PM Deterioration Rates

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0238	0.0003	0.0022	0.0568	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.552	1.046	1.097	1.059	1.664	0.194	0.392	3.426	1.85	1.044

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local Rural
* File 29, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VTM Distribution:	0.3183	0.4205	0.1433	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/mi):								
Composite NOX :	0.552	1.046	1.097	1.059	0.392	3.424	1.85	1.103

* #								
* Urban Interstate Rural								
* File 29, Run 1, Scenario 18.								
* #								
* Reading PM Gas Carbon ZML Levels								
* from the external data file PMGZML.CSV								
* Reading PM Gas Carbon DR1 Levels								
* from the external data file PMGDR1.CSV								
* Reading PM Gas Carbon DR2 Levels								
* from the external data file PMGDR2.CSV								
* Reading PM Diesel Zero Mile Levels								
* from the external data file PMDZML.CSV								
* Reading the First PM Deterioration Rates								
* from the external data file PMDDR1.CSV								
* Reading the Second PM Deterioration Rates								
* from the external data file PMDDR2.CSV								
* Urban interstate mix and speeds								
M615 Comment:								
User supplied VMT mix.								
M581 Warning:								
The user supplied freeway average speed of 62.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.								
M 48 Warning:								
there are no sales for vehicle class HDGV8b								
M 48 Warning:								
there are no sales for vehicle class LDDT12								
Calendar Year: 2014								
Month: Jan.								
Altitude: Low								
Minimum Temperature:	37.1 (F)							
Maximum Temperature:	53.6 (F)							
Minimum Rel. Hum.:	45.8 (%)							
Maximum Rel. Hum.:	75.1 (%)							
Barometric Pressure:	30.00 (inches Hg)							
Nominal Fuel RVP:	14.0 psi							
Weathered RVP:	14.0 psi							
Fuel Sulfur Content:	30. ppm							
Exhaust I/M Program:	No							
Evap I/M Program:	No							

ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VTM Distribution:	0.2947	0.3893	0.1327	0.0520	0.0003	0.0019	0.1242	0.0049	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.598	1.107	1.155	1.119	1.909	0.320	0.649	6.004	2.47	1.619

* # # # # # # # # # # # # # # # # # #
* Urban freeway Rural
* File 29, Run 1, Scenario 19.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.583	1.087	1.136	1.099	1.835	0.259	0.525	4.914	2.23	1.289

* * * * *
 * Urban principle arterial Rural
 * File 29, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0239	0.0003	0.0022	0.0570	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.554	1.052	1.107	1.066	1.494	0.189	0.382	3.336	1.70	1.039

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban minor arterial Rural										
* File 29, Run 1, Scenario 21.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 32.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3380	0.4465	0.1522	0.0162	0.0003	0.0022	0.0390	0.0056	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.543	1.036	1.090	1.049	1.542	0.185	0.375	3.274	1.76	0.975

* * * * *
* Urban collector Rural
* File 29, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1535		0.0139	0.0003	0.0022	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.545	1.038	1.092	1.052	1.530	0.185	0.375	3.280	1.74	0.962

* * * * *

* Urban local Rural

* File 29, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.545	1.038	1.092	1.052	1.529	0.185	0.375	3.278	1.74	1.026

```
*****  
* MOBILE6.2.03 (24-Sep-2003) *****  
* Input file: DAVI4P2.IN (file 10, run 1). *****  
*****  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
  
* * * * *  
* Rural interstate TDM Q2  
* File 10, Run 1, Scenario 1.  
* * * * *  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV  
  
* Reading PM Diesel Zero Mile Levels  
* from the external data file PWDZML.CSV  
  
* Reading the First PM Deterioration Rates  
* from the external data file PWDDR1.CSV  
  
* Reading the Second PM Deterioration Rates  
* from the external data file PWDDR2.CSV  
Rural interstate mix and speeds  
M615 Comment: User supplied VMT mix.  
M 96 Warning: 68.0 speed reduced to 65 mph maximum  
  
M581 Warning:  
The user supplied freeway average speed of 65.0  
will be used for all hours of the day. 100% of VMT  
has been assigned to the freeway roadway type for  
all hours of the day and all vehicle types.  
*** I/M credits for Tech1&2 vehicles were read from the following external  
data file: TECH12.D  
M 48 Warning:  
there are no sales for vehicle class HDGV8B  
  
M 48 Warning:  
there are no sales for vehicle class LDDT12  
  
Calendar Year: 2014  
Month: July  
Altitude: Low  
Minimum Temperature: 58.5 (F)  
Maximum Temperature: 77.1 (F)
```

Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.355	0.687	0.720	0.695	1.662	0.342	0.682	5.943	1.98	1.699

* * * * *
* Rural minor arterial TDM Q2
* File 10, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector road way
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.322	0.637	0.671	0.646	1.422	0.186	0.369	3.049	1.42	0.688

* * * * *
* Rural minor collector TDM Q2
* File 10, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.330	0.650	0.683	0.658	1.485	0.203	0.405	3.354	1.49	0.727

* #

* Rural local TDM Q2

* File 10, Run 1, Scenario 5.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.355	0.687	0.720	0.695	1.662	0.342	0.682	5.943	1.98	1.304

* # # # # # # # # # # # # # # # #
* Urban freeway TDM Q2

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

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On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.317	0.630	0.664	0.638	1.380	0.179	0.356	2.951	1.40	0.686

* * * * *
* Urban minor arterial TDM Q2
* File 10, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.319	0.633	0.666	0.641	1.400	0.181	0.360	2.980	1.41	0.639

* # # # # # # # # # # # # # # # #										
* Urban collector TDM Q2										
* File 10, Run 1, Scenario 10.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.322	0.637	0.671	0.646	1.422	0.186	0.369	3.058	1.42	0.630

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban local TDM Q2	#	#	#	#	#	#	#	#	#	#
* File 10, Run 1, Scenario 11.	#	#	#	#	#	#	#	#	#	#
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:										

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.326	0.643	0.676	0.652	1.452	0.192	0.381	3.159	1.44	0.711

* * * * *
* Rural interstate Rural
* File 10, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 65.0

will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:

VMT Distribution:	0.2604	0.3437	0.1171	>6000	0.0802	0.0002	0.0017	0.1924	0.0043	1.0000
-------------------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/ml):

Composite NOX :	0.355	0.687	0.720	0.695	1.662	0.342	0.682	5.943	1.98	1.699
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* * * * *

* Rural principle arterial Rural

* File 10, Run 1, Scenario 13.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.326	0.643	0.676	0.652	1.452	0.192	0.381	3.437	1.44	0.863

* # # # # # # # # # # # # # # # # # #
 * Rural minor arterial Rural
 * File 10, Run 1, Scenario 14.
 * # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)
Barometric Pressure:	30.00 (in)
Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* * * * *
* * Rural major collector Rural
* * File 10, Run 1, Scenario 15.
* * * * *
* * * * *
* * Reading PM Gas Carbon ZML Levels
* * from the external data file PMGZML.CSV
* * * * *
* * Reading PM Gas Carbon DR1 Levels
* * * * *

```

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

1305
Appendix C.3
December 18, 2009

* # # # # # # # # # # # # # # # # # #
* Rural minor collector Rural
* File 10, Run 1, Scenario16.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:
    User supplied VMT mix.

M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2014
    Month: July
    Altitude: Low
    Minimum Temperature: 58.5 (F)
    Maximum Temperature: 77.1 (F)
    Minimum Rel. Hum.: 44.3 (%)
    Maximum Rel. Hum.: 82.0 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 10.1 psi
    Weathered RVP: 10.1 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.3291 0.4344 0.1480
-----
Composite Emission Factors (g/ml):

```

Composite NOX :	0.322	0.637	0.671	0.646	1.422	0.186	0.369	3.056	1.42	0.698
* Rural local Rural										
* File 10, Run 1, Scenario 17.										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year:	2014									
Month:	July									
Altitude:	Low									
Minimum Temperature:	58.5 (F)									
Maximum Temperature:	77.1 (F)									
Minimum Rel. Hum.:	44.3 (%)									
Maximum Rel. Hum.:	82.0 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	10.1 psi									
Weathered RVP:	10.1 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program:	Yes									
Evap I/M Program:	Yes									
ATP Program:	Yes									
Reformulated Gas:	No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3183	0.4205	0.1433	0.0325	0.0003	0.0021	0.0053	1.0000		
Composite Emission Factors (g/mi):										
Composite NOX :	0.322	0.637	0.671	0.646	1.422	0.186	0.369	3.054	1.42	0.758
* * * * *										
* Urban interstate Rural										
* File 10, Run 1, Scenario 18.										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 62.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2014										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.1 psi										
Weathered RVP: 10.1 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.350 0.680 0.714 0.689 1.631 0.307 0.610 5.351 1.89 1.223

* * * * *
* Urban freeway Rural
* File 10, Run 1, Scenario 19.
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.342	0.667	0.700	0.675	1.568	0.248	0.493	4.378	1.71	0.919

* # # # # # # # # # # # # # # # #										
* Urban principle arterial Rural										
* File 10, Run 1, Scenario 20.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban principle arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 28.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector/roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.318	0.630	0.664	0.638	1.318	0.177	0.352	2.921	1.35	0.633

* * * * *
* Urban collector Rural
* File 10, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDDT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.320	0.631	0.666	0.640	1.307	0.178	0.353	2.926	1.34	0.619

* #

* Urban local Rural

* File 10, Run 1, Scenario 23.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.320	0.631	0.666	0.640	1.307	0.178	0.353	2.924	1.34	0.685

```
*****  
** MOBILE6.2.O3 (24-Sep-2003) *****  
** Input file: DAV14P2N.IN (file 30, run 1). *****  
*****  
  
** Reading Registration Distributions from the following external  
** data file: NCAGE07.PRN  
  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
** Rural interstate TDM Q2  
** File 30, Run 1, Scenario 1.  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
** Reading PM Gas Carbon ZML Levels  
** from the external data file PMGZML.CSV  
  
** Reading PM Gas Carbon DR1 Levels  
** from the external data file PMGDR1.CSV  
  
** Reading PM Gas Carbon DR2 Levels  
** from the external data file PMGDR2.CSV  
  
** Reading PM Diesel Zero Mile Levels  
** from the external data file PMDZML.CSV  
  
** Reading the First PM Deterioration Rates  
** from the external data file PMDDR1.CSV  
  
** Reading the Second PM Deterioration Rates  
** from the external data file PMDDR2.CSV  
** Rural interstate mix and speeds  
M615 Comment: User supplied VMT mix.  
M 96 Warning: 68.0 speed reduced to 65 mph maximum  
  
M581 Warning:  
The user supplied freeway average speed of 65.0  
will be used for all hours of the day. 100% of VMT  
has been assigned to the freeway roadway type for  
all hours of the day and all vehicle types.  
  
M 48 Warning:  
there are no sales for vehicle class HDGV8b  
  
M 48 Warning:  
there are no sales for vehicle class LDDT12  
  
Calendar Year: 2014  
Month: July  
Altitude: Low  
Minimum Temperature: 58.5 (F)  
Maximum Temperature: 77.1 (F)  
Minimum Rel. Hum.: 44.3 (%)  
Maximum Rel. Hum.: 82.0 (%)  
Barometric Pressure: 30.00 (inches Hg)
```

Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.475	0.884	0.879	0.883	1.662	0.342	0.682	5.943	1.98	1.817

* * * * *
* Rural minor arterial TDM Q2
* File 30, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

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The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

M 48 Warning:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 mi/h will be used for all hours of the day. 100% of vehicles has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment:

User supplied VMT mix.

M583 Warning:

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3306	0.4367	0.1488	>6000	0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.438	0.827	0.826	0.826	1.422	0.186	0.369	3.049	1.42	0.832

* * * * *
* Rural minor collector TDM Q2
* File 30, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.447	0.841	0.838	0.840	1.485	0.203	0.405	3.354	1.49	0.871

* * * * *
* Rural local TDM Q2
* File 30, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.447	0.841	0.838	0.840	1.485	0.203	0.405	3.351	1.49	0.934
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban interstate TDM Q2

* File 30, Run 1, Scenario 6.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.475	0.884	0.880	0.883	1.662	0.342	0.682	5.943	1.98	1.437

* # # # # # # # # # # # # # # # # # #
 * Urban freeway TDM Q2
 * File 30, Run 1, Scenario 7.
 * # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July

Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.460	0.860	0.857	0.859	1.568	0.248	0.493	4.378	1.71	1.059

* * * * *
 * Urban principle arterial TDM Q2
 * File 30, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VTM Distribution:	0.3289	0.4343	0.1480	0.819	1.380	0.003	0.0022	0.0571	0.0054	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.433	0.819	0.818	0.819	1.380	0.179	0.356	2.951	1.40	0.829
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban minor arterial TDM Q2

* File 30, Run 1, Scenario 9.

* * * * *

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 40.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

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Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.438	0.827	0.826	0.826	1.422	0.186	0.369	3.058	1.42	0.779

* * * * *
* Urban local TDM Q2
* File 30, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.442	0.833	0.832	0.833	1.452	0.192	0.381	3.159	1.44	0.855

* * * * *
 * Rural interstate Rural
 * File 30, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.475	0.884	0.879	0.883	1.662	0.342	0.682	5.943	1.98	1.817

* * * * *
* Rural principle arterial Rural
* File 30, Run 1, Scenario 13.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds
M615 Comment:

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP:	10.1 psi
-------------------	----------

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap	I/M Program:	No
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Evaluated	ATP Program:	Yes	No
1/1	Program:	Yes	No

Reformulated Gas: No
 Air Program: No

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
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GVWR:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

VMT Distribution:

Composite Emission Factors (g/mi):

Composite NOX :	0.442	0.833	0.832	0.833	1.452	0.192	0.381	3.437	1.44	0.997
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[illegible]

* Rural minor arterial Rural

* File 30, Run 1, Scenario 14.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	8												

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.csv

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.csv

* Reading PM Gas Carbon DR2 Levels

** from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.csv

* Reading the First PM Deterioration Rates

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.438	0.827	0.826	0.826	1.422	0.186	0.369	3.056	1.42	0.842

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural local Rural
* File 30, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.470	0.876	0.872	0.875	1.631	0.307	0.610	5.351	1.89	1.356

* # # # # # # # # # # # # # # # # # #										
* Urban freeway Rural										
* File 30, Run 1, Scenario 19.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 56.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										

Calendar Year: 2014										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.3151	0.4160	0.1417	>6000	0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.460	0.860	0.857	0.859	1.568	0.248	0.493	4.378	1.71	1.059

* * * * *
* Urban principle arterial Rural
* File 30, Run 1, Scenario 20.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.444	0.833	0.834	0.833	1.276	0.181	0.359	2.976	1.30	0.840

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban minor arterial Rural										
* File 30, Run 1, Scenario 21.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3380	0.4465	0.1522	>6000	0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.434	0.819	0.820	0.819	1.318	0.177	0.352	2.921	1.35	0.781

* * * * *
* Urban collector Rural
* File 30, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.436	0.821	0.822	0.822	1.307	0.178	0.353	2.926	1.34	0.769

* * * * *
* Urban local Rural
* File 30, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.436	0.821	0.822	0.822	1.307	0.178	0.353	2.924	1.34	0.829

Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.316	0.602	0.632	0.610	1.724	0.342	0.682	5.943	1.66	1.653

* * * * *
 * Rural minor arterial TDM Q3
 * File 11, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 51.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.300	0.574	0.604	0.582	1.573	0.217	0.431	3.568	1.30	0.795

* * * * *
* Rural major collector TDM Q3
* File 11, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3306	0.4367	0.1488	-----	0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.291	0.557	0.588	0.565	1.475	0.186	0.369	3.049	1.19	0.630
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural minor collector TDM Q3

* File 11, Run 1, Scenario 4.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3291	0.4344	0.1480	-----	0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.297	0.568	0.598	0.576	1.541	0.203	0.405	3.354	1.25	0.668

* * * * *
 * Rural local TDM Q3
 * File 11, Run 1, Scenario 5.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.297	0.568	0.598	0.576	1.541	0.203	0.405	3.351	1.25	0.737

* * * * *
* Urban interstate TDM Q3
* File 11, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.316	0.602	0.632	0.610	1.724	0.342	0.682	5.943	1.66	1.249

* # # # # # # # # # # # # # # # #
* Urban freeway TDM Q3
* File 11, Run 1, Scenario 7.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.

M581 Warning:
    The user supplied freeway average speed of 56.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2014
    Month: July
    Altitude: Low
    Minimum Temperature: 68.2 (F)
    Maximum Temperature: 83.1 (F)
    Minimum Rel. Hum.: 56.8 (%)
    Maximum Rel. Hum.: 86.8 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 7.8 psi
    Weathered RVP: 7.7 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.3151 0.4160 0.1417 0.0352 0.0003 0.0021 0.0844 0.0052
-----
Composite Emission Factors (g/ml):

```

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Urban principle arterial TDM Q3  
* File 11, Run 1, Scenario 8.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV  
  
* Reading PM Diesel Zero Mile Levels  
* from the external data file PMDZML.CSV  
  
* Reading the First PM Deterioration Rates  
* from the external data file PMDDR1.CSV  
  
* Reading the Second PM Deterioration Rates  
* from the external data file PMDDR2.CSV  
Urban principle arterial mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
M583 Warning:  
    The user supplied arterial average speed of 38.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the arterial collector roadway  
    type for all hours of the day and all vehicle types.  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b  
M 48 Warning:  
    there are no sales for vehicle class LDDTT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	68.2 (F)
Maximum Temperature:	83.1 (F)
Minimum Rel. Hum.:	56.8 (%)
Maximum Rel. Hum.:	86.8 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.7 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.287	0.551	0.581	0.558	1.432	0.179	0.356	2.951	1.17	0.629

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban minor arterial TDM Q3										
* File 11, Run 1, Scenario 9.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 40.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
	Calendar Year:	2014								
	Month:	July								
	Altitude:	Low								
	Minimum Temperature:	68.2 (F)								
	Maximum Temperature:	83.1 (F)								
	Minimum Rel. Hum.:	56.8 (%)								
	Maximum Rel. Hum.:	86.8 (%)								
	Barometric Pressure:	30.00 (inches Hg)								
	Nominal Fuel RVP:	7.8 psi								
	Weathered RVP:	7.7 psi								
	Fuel Sulfur Content:	30. ppm								

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.288 0.553 0.584 0.561 1.453 0.181 0.360 2.980 1.18 0.580

* * * * *
* Urban collector TDM Q3
* File 11, Run 1, Scenario 10.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.291	0.557	0.587	0.565	1.476	0.186	0.369	3.058	1.19	0.570

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban local TDM Q3										
* File 11, Run 1, Scenario 11.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 45.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000
Composite Emission Factors (g/ml):	0.293	0.563	0.593	0.570	1.507	0.192	0.381	3.159	1.21	0.653

* * * * *
* Rural interstate Rural
* File 11, Run 1, Scenario 12.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT

has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.316	0.602	0.632	0.610	1.724	0.342	0.682	5.943	1.66	1.653

* * * * *
* Rural principle arterial Rural
* File 11, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.293	0.563	0.593	0.570	1.507	0.192	0.381	3.437	1.21	0.809

* # # # # # # # # # # # # # # # # # #

* Rural minor arterial Rural

* File 11, Run 1, Scenario 14.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.293	0.561	0.591	0.569	1.497	0.190	0.377	3.123	1.20	0.743

* # # # # # # # # # # # # # # # # # #
* Rural major collector Rural
* File 11, Run 1, Scenario 15.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.292	0.559	0.589	0.567	1.486	0.188	0.373	3.086	1.20	0.634

* # # # # # # # # # # # # # # # #
* Rural minor collector Rural
* File 11, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.291	0.557	0.587	0.565	1.476	0.186	0.369	3.056	1.19	0.641

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							

VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.312	0.596	0.626	0.604	1.693	0.307	0.610	5.351	1.59	1.169
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Urban freeway Rural
 * File 11, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	68.2 (F)
Maximum Temperature:	83.1 (F)
Minimum Rel. Hum.:	56.8 (%)

Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.305	0.584	0.614	0.592	1.628	0.248	0.493	4.378	1.43	0.862
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Urban principle arterial Rural
 * File 11, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

```

* * * * * Urban minor arterial Rural
* * * * * File 11, Run 1, Scenario 21.
* * * * *
* * * * *
* * * * * Reading PM Gas Carbon ZML Levels
* * * * * from the external data file PMGZML.CSV
* * * * *
* * * * * Reading PM Gas Carbon DR1 Levels
* * * * * from the external data file PMGDR1.CSV
* * * * *
* * * * * Reading PM Gas Carbon DR2 Levels
* * * * * from the external data file PMGDR2.CSV
* * * * *
* * * * * Reading PM Diesel Zero Mile Levels
* * * * * from the external data file PMDZML.CSV
* * * * *
* * * * * Reading the First PM Deterioration Rates
* * * * * from the external data file PMDDR1.CSV
* * * * *
* * * * * Reading the Second PM Deterioration Rates
* * * * * from the external data file PMDDR2.CSV
* * * * * Urban minor arterial mix and speeds
* * * * * M615 Comment:
* * * * * User supplied VMT mix.

```

M583 Warning:

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.290	0.551	0.582	0.559	1.368	0.177	0.352	2.921	1.13	0.576

* * * * *
* Urban collector Rural
* File 11, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.292	0.553	0.584	0.561	1.356	0.178	0.353	2.926	1.12	0.561

* * * * *

* Urban local Rural

* File 11, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July

Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3288	0.4341	0.1479	>6000	0.0239	0.0003	0.0022	0.0574	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.292	0.553	0.584	0.561	1.356	0.178	0.353	2.924	1.12	0.629


```
*****  
** MOBILE6.2.03 (24-Sep-2003) *****  
** Input file: DAV14P3N.IN (file 31, run 1). *****  
*****  
  
** Reading Registration Distributions from the following external  
** data file: NCAGE07.PRN  
  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
** Rural interstate TDM Q3  
** File 31, Run 1, Scenario 1.  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
** Reading PM Gas Carbon ZML Levels  
** from the external data file PMGZML.CSV  
  
** Reading PM Gas Carbon DR1 Levels  
** from the external data file PMGDR1.CSV  
  
** Reading PM Gas Carbon DR2 Levels  
** from the external data file PMGDR2.CSV  
  
** Reading PM Diesel Zero Mile Levels  
** from the external data file PMDZML.CSV  
  
** Reading the First PM Deterioration Rates  
** from the external data file PMDDR1.CSV  
  
** Reading the Second PM Deterioration Rates  
** from the external data file PMDDR2.CSV  
** Rural interstate mix and speeds  
M615 Comment: User supplied VMT mix.  
M 96 Warning: 68.0 speed reduced to 65 mph maximum  
M581 Warning:  
The user supplied freeway average speed of 65.0  
will be used for all hours of the day. 100% of VMT  
has been assigned to the freeway roadway type for  
all hours of the day and all vehicle types.  
M 48 Warning:  
there are no sales for vehicle class HDGV8b  
M 48 Warning:  
there are no sales for vehicle class LDDT12  
  
Calendar Year: 2014  
Month: July  
Altitude: Low  
Minimum Temperature: 68.2 (F)  
Maximum Temperature: 83.1 (F)  
Minimum Rel. Hum.: 56.8 (%)  
Maximum Rel. Hum.: 86.8 (%)  
Barometric Pressure: 30.00 (inches Hg)
```

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.421	0.774	0.772	0.773	1.724	0.342	0.682	5.943	1.66	1.756

* * * * *
* Rural minor arterial TDM Q3
* File 31, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

M593 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3306	0.4367	0.1488	>6000	0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.394	0.723	0.724	0.723	1.475	0.186	0.369	3.049	1.19	0.757

* * * * *
* Rural minor collector TDM Q3
* File 31, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.401	0.736	0.735	0.736	1.541	0.203	0.405	3.354	1.25	0.795

* * * * *
* Rural local TDM Q3
* File 31, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.401	0.736	0.736	0.736	1.541	0.203	0.405	3.351	1.25	0.860

* * * * *

* Urban interstate TDM Q3

* File 31, Run 1, Scenario 6.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.421	0.774	0.772	0.773	1.724	0.342	0.682	5.943	1.66	1.366

* # # # # # # # # # # # # # # # # # #
* Urban freeway TDM Q3
* File 31, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July

Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.410	0.753	0.752	0.753	1.628	0.248	0.493	4.378	1.43	0.984

* * * * *
 * Urban principle arterial TDM Q3
 * File 31, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000
 HDGV HDDV LDDT HDDV MC All Veh

VTM Distribution:	0.3289	0.4343	0.716	0.718	0.717	1.432	0.179	0.356	2.951	0.0571	0.0054	1.0000
-------------------	--------	--------	-------	-------	-------	-------	-------	-------	-------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.391	0.716	0.718	0.717	1.432	0.179	0.356	2.951	0.0571	0.0054	1.0000
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* * * * *

* Urban minor arterial TDM Q3

* File 31, Run 1, Scenario 9.

* * * * *

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* * * * *

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* * * * *

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* * * * *

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* * * * *

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* * * * *

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* * * * *

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 40.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

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Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.394	0.723	0.724	0.723	1.476	0.186	0.369	3.058	1.19	0.701

* * * * *
* Urban local TDM Q3
* File 31, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.397	0.729	0.729	0.729	1.507	0.192	0.381	3.159	1.21	0.780

* * * * *
* Rural interstate Rural
* File 31, Run 1, Scenario 12.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.421	0.774	0.772	0.773	1.724	0.342	0.682	5.943	1.66	1.756

* * * * *
* Rural principle arterial Rural
* File 31, Run 1, Scenario 13.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds
M615 Comment:

M581 Warning:

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.:	86.8 (%)
Minimum Rel. Hum.:	56.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP:	7.8 psi
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Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
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[illegible][illegible]

VMT Distribution:	0.3076	0.4065	0.1386	0.0412	0.0003	0.0020	0.0987	0.0051	1.0000
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[illegible]

Composite Emission Factors (g/mi):

	0.397	0.729	0.729	1.507	0.192	0.381	3.437	1.21	0.928
Composite NOX :	0.397	0.729	0.729	1.507	0.192	0.381	3.437	1.21	0.928

[illegible]

* Rural minor arterial Rural

* File 31, Run 1, Scenario 14.

[illegible]

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading	PM	Gas	Carbon	DR2	Levels
-----------	----	-----	--------	-----	--------

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file `PMDZML.csv`

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.396	0.727	0.728	0.727	1.497	0.190	0.377	3.123	1.20	0.863

* #										
* Rural major collector Rural										
* File 31, Run 1, Scenario 15.										
* #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.394	0.723	0.724	0.723	1.476	0.186	0.369	3.056	1.19	0.767

[illegible]

LDGT
(All)-----

VMT Distribution: 0.3183 0.4205 0.1433 0.0325 0.0003 0.0021 0.0777 0.0053 1.0000

 Composite Emission Factors (g/mi):
 Composite NOx : 0.394 0.723 0.724 0.723 1.476 0.186 0.369 3.054 1.19 0.826

* * * * *
 * Urban Interstate Rural
 * File 31, Run 1, Scenario 18.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban Interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No

ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.418	0.767	0.766	0.767	1.693	0.307	0.610	5.351	1.59	1.285

* # # # # # # # # # # # # # # # # # #										
* Urban freeway Rural										
* File 31, Run 1, Scenario 19.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 56.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										

Calendar Year: 2014										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VTM Distribution:	0.3151	0.4160	0.1417	>6000	0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.410	0.753	0.752	0.753	1.628	0.248	0.493	4.378	1.43	0.984

* * * * *
 * Urban principle arterial Rural
 * File 31, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.406	0.731	0.734	0.732	1.324	0.181	0.359	2.976	1.09	0.768

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban minor arterial Rural										
* File 31, Run 1, Scenario 21.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3380	0.4465	0.1522	>6000	0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.394	0.718	0.720	0.718	1.368	0.177	0.352	2.921	1.13	0.706

* * * * *
* Urban collector Rural
* File 31, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.396	0.720	0.722	0.720	1.356	0.178	0.353	2.926	1.12	0.693

* * * * *

* Urban local Rural

* File 31, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.396	0.720	0.722	0.720	1.356	0.178	0.353	2.924	1.12	0.757

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.378	0.765	0.832	0.782	1.644	0.328	0.661	5.789	2.43	1.716

* * * * *
 * Rural minor arterial TDM Q4
 * File 12, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 51.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDLV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.353	0.731	0.797	0.748	1.499	0.208	0.418	3.470	1.90	0.895

* * * * *
* Rural major collector TDM Q4
* File 12, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3306	0.4367	0.1488	-----	0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.339	0.710	0.776	0.727	1.407	0.178	0.358	2.967	1.74	0.738
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* * * * *

* Rural minor collector TDM Q4

* File 12, Run 1, Scenario 4.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3291	0.4344	0.1480	>6000	0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.349	0.724	0.790	0.741	1.469	0.195	0.393	3.263	1.82	0.777

* * * * *

* Rural local TDM Q4

* File 12, Run 1, Scenario 5.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433	0.0324	0.0021	0.0003	0.0778	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.349	0.724	0.790	0.741	1.469	0.195	0.393	3.260	1.82	0.840

* * * * *
* Urban interstate TDM Q4
* File 12, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1326		0.0519	0.0003	0.0020	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.378	0.765	0.832	0.782	1.644	0.328	0.661	5.789	2.43	1.338

* * * * *
* Urban freeway TDM Q4
* File 12, Run 1, Scenario 7.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.

M581 Warning:
    The user supplied freeway average speed of 56.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2015
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 44.0 (F)
    Maximum Temperature: 55.9 (F)
    Minimum Rel. Hum.: 61.6 (%)
    Maximum Rel. Hum.: 85.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.3151 0.4160 0.1417 0.0352 0.0021 0.0844 0.0052 1.0000
-----
Composite Emission Factors (g/ml):

```

```
* * * * *
* Urban principle arterial TDM Q4
* File 12, Run 1, Scenario 8.
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

```
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
```

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

M615 Comment:

User supplied VMT mix.

The user supplied arterial average speed of 38.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap	I/M	Program:	Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GWR:	<6000	>6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000
Composite Emission Factors (g/mi.):										
Composite NOX :	0.333	0.702	0.768	0.719	1.366	0.172	0.346	2.872	1.71	0.735
* * * * *	* * * * *	* * * * *	* * * * *							
* Urban minor arterial TDM Q4										
* File 12, Run 1, Scenario 9.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment:										
	User supplied VMT mix.									
M583 Warning:										
	The user supplied arterial average speed of 40.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										
	there are no sales for vehicle class HDGV8b									
M 48 Warning:										
	there are no sales for vehicle class LDDTI2									
	Calendar Year:	2015								
	Month:	Jan.								
	Altitude:	Low								
	Minimum Temperature:	44.0 (F)								
	Maximum Temperature:	55.9 (F)								
	Minimum Rel. Hum.:	61.6 (%)								
	Maximum Rel. Hum.:	85.1 (%)								
	Barometric Pressure:	30.00 (inches Hg)								
	Nominal Fuel RVP:	14.0 psi								
	Weathered RVP:	14.0 psi								
	Fuel Sulfur Content:	30. ppm								

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.335 0.705 0.771 0.722 1.385 0.174 0.349 2.900 1.73 0.692

* # # # # # # # # # # # # # # # #
* Urban collector TDM Q4
* File 12, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # #
* # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.339	0.710	0.776	0.727	1.407	0.178	0.358	2.975	1.74	0.684

* * * * *
 * Urban local TDM Q4
 * File 12, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.343	0.717	0.783	0.734	1.436	0.184	0.370	3.074	1.76	0.761

* # # # # # # # # # # # # # # # # # #
* Rural interstate Rural
* File 12, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # #
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment : User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT

has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.378	0.765	0.832	0.782	1.644	0.328	0.661	5.789	2.43	1.716

* * * * *

* Rural principle arterial Rural

* File 12, Run 1, Scenario 13.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.343	0.717	0.783	0.734	1.437	0.184	0.370	3.359	1.76	0.906

* # # # # # # # # # # # # # # # # # #

* Rural minor arterial Rural

* File 12, Run 1, Scenario 14.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.340	0.713	0.778	0.729	1.417	0.180	0.363	3.002	1.75	0.742

* # # # # # # # # # # # # # # # #
* Rural minor collector Rural
* File 12, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.339	0.710	0.776	0.727	1.407	0.178	0.358	2.974	1.74	0.748

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0519	0.0003	0.0020	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.373	0.758	0.825	0.775	1.614	0.294	0.593	5.214	2.32	1.259
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* * * * *
* Urban freeway Rural
* File 12, Run 1, Scenario 19.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.362	0.743	0.809	0.760	1.552	0.238	0.479	4.271	2.09	0.965

* * * * *
 * Urban principle arterial Rural
 * File 12, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.339	0.713	0.781	0.730	1.263	0.173	0.349	2.896	1.60	0.741

* * * * *
* Urban minor arterial Rural
* File 12, Run 1, Scenario 21.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.332	0.701	0.768	0.718	1.304	0.170	0.342	2.843	1.65	0.684
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban collector Rural

* File 12, Run 1, Scenario 22.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3410	0.4502	0.1534	0.720	0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.333	0.703	0.770	0.720	1.293	0.170	0.343	2.848	1.64	0.671

* * * * *

* Urban local Rural

* File 12, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.

Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.333	0.703	0.770	0.720	1.293	0.170	0.343	2.845	1.64	0.732

```
*****  
** MOBILE6.2.03 (24-Sep-2003) *****  
** Input file: DAV14P4N.IN (file 32, run 1). *****  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q4  
* File 32, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV  
  
* Reading PM Diesel Zero Mile Levels  
* from the external data file PMDZML.CSV  
  
* Reading the First PM Deterioration Rates  
* from the external data file PMDDR1.CSV  
  
* Reading the Second PM Deterioration Rates  
* from the external data file PMDDR2.CSV  
* Rural interstate mix and speeds  
M615 Comment: User supplied VMT mix.  
M 96 Warning: 68.0 speed reduced to 65 mph maximum  
M581 Warning:  
The user supplied freeway average speed of 65.0  
will be used for all hours of the day. 100% of VMT  
has been assigned to the freeway roadway type for  
all hours of the day and all vehicle types.  
M 48 Warning:  
there are no sales for vehicle class HDGV8b  
M 48 Warning:  
there are no sales for vehicle class LDDT12  
  
Calendar Year: 2015  
Month: Jan.  
Altitude: Low  
Minimum Temperature: 44.0 (F)  
Maximum Temperature: 55.9 (F)  
Minimum Rel. Hum.: 61.6 (%)  
Maximum Rel. Hum.: 85.1 (%)  
Barometric Pressure: 30.00 (inches Hg)
```

Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.527	0.991	1.038	1.003	1.644	0.328	0.661	5.789	2.43	1.857

* * * * *
* Rural minor arterial TDM Q4
* File 32, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.498	0.951	0.998	0.963	1.499	0.208	0.418	3.470	1.90	1.060

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural major collector TDM Q4										
* File 32, Run 1, Scenario 3.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 42.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3306	0.4367	0.1488	>6000	0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.481	0.928	0.976	0.940	1.407	0.178	0.358	2.967	1.74	0.910

* * * * *
* Rural minor collector TDM Q4
* File 32, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.492	0.943	0.991	0.955	1.469	0.195	0.393	3.263	1.82	0.949

* * * * *
* Rural local TDM Q4
* File 32, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0324	0.0003	0.0021	0.0778	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.492	0.943	0.991	0.955	1.469	0.195	0.393	3.260	1.82	1.007

* * * * *

* Urban interstate TDM Q4

* File 32, Run 1, Scenario 6.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1326		0.0519	0.0003	0.0020	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.527	0.991	1.038	1.003	1.644	0.328	0.661	5.789	2.43	1.497

* * * * *
* Urban freeway TDM Q4
* File 32, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.

Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.508	0.965	1.012	0.977	1.552	0.238	0.479	4.271	2.09	1.132

* * * * *
 * Urban principle arterial TDM Q4
 * File 32, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

-----
VMT Distribution:  0.3289  0.4343  0.1480  0.931  0.968  0.918  0.0238  0.0003  0.0022  0.0571  0.0054  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :  0.474  0.918  0.968  0.931  1.366  0.172  0.346  2.872  1.71  0.904
-----

```

```

* * * * *
* Urban minor arterial TDM Q4
* File 32, Run 1, Scenario 9.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year:  2015
Month:  Jan.
Altitude:  Low
Minimum Temperature:  44.0 (F)
Maximum Temperature:  55.9 (F)
Minimum Rel. Hum.:  61.6 (%)
Maximum Rel. Hum.:  85.1 (%)
Barometric Pressure:  30.00 (inches Hg)
Nominal Fuel RVP:  14.0 psi
Weathered RVP:  14.0 psi
Fuel Sulfur Content:  30. ppm

Exhaust I/M Program:  No

```

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.481	0.928	0.976	0.940	1.407	0.178	0.358	2.975	1.74	0.860

* * * * *
* Urban local TDM Q4
* File 32, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.486	0.935	0.983	0.947	1.436	0.184	0.370	3.074	1.76	0.932

* * * * *
* Rural interstate Rural
* File 32, Run 1, Scenario 12.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/ml):	0.527	0.991	1.038	1.003	1.644	0.328	0.661	5.789	2.43	1.857

* * * * *
* Rural principle arterial Rural
* File 32, Run 1, Scenario 13.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds
M615 Comment:

M581 Warning:

M 48 Warning:

M 48 Warning:

TWR: <600

VMT Distribution:	0.3076	0.4065	0.1386	0.0412	0.0003	0.0020	0.0987	0.0051	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

* * * * *
* Rural minor arterial Rural
* File 32, Run 1, Scenario 14.
* * * * *

* Reading the First PM Deterioration Rates

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low

Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.481	0.927	0.976	0.940	1.407	0.178	0.358	2.974	1.74	0.918

[illegible]

LDGT
(All)-----

VTM Distribution:	0.3183	0.4205	0.1433	0.0324	0.0003	0.0021	0.0778	0.0053	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.481	0.927	0.976	0.940	1.407	0.358	2.972	1.74	0.970

* * * * *	* * * * *	* * * * *	* * * * *						
* Urban Interstate Rural									
* File 32, Run 1, Scenario 18.									
* * * * *	* * * * *	* * * * *	* * * * *						
* * * * *	* * * * *	* * * * *	* * * * *						
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Urban interstate mix and speeds									
M615 Comment:									
User supplied VMT mix.									
M581 Warning:									
The user supplied freeway average speed of 62.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.									
M 48 Warning:									
there are no sales for vehicle class HDGV8b									
M 48 Warning:									
there are no sales for vehicle class LDDT12									
Calendar Year: 2015									
Month: Jan.									
Altitude: Low									
Minimum Temperature:	44.0 (F)								
Maximum Temperature:	55.9 (F)								
Minimum Rel. Hum.:	61.6 (%)								
Maximum Rel. Hum.:	85.1 (%)								
Barometric Pressure:	30.00 (inches Hg)								
Nominal Fuel RVP:	14.0 psi								
Weathered RVP:	14.0 psi								
Fuel Sulfur Content:	30. ppm								
Exhaust I/M Program:	No								
Evap I/M Program:	No								

ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2947	0.3893	0.1326		0.0519	0.0003	0.0020	0.1243	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.521	0.983	1.030	0.995	1.614	0.294	0.593	5.214	2.32	1.417

* # # # # # # # # # # # # # # # #										
* Urban freeway Rural										
* File 32, Run 1, Scenario 19.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 56.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2015										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.508	0.965	1.012	0.977	1.552	0.238	0.479	4.271	2.09	1.132

* * * * *
 * Urban principle arterial Rural
 * File 32, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 28.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.482	0.933	0.985	0.946	1.263	0.173	0.349	2.896	1.60	0.914

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban minor arterial Rural										
* File 32, Run 1, Scenario 21.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3380	0.4465	0.1522	>6000	0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.473	0.918	0.969	0.931	1.304	0.170	0.342	2.843	1.65	0.859

* * * * *
* Urban collector Rural
* File 32, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.474	0.920	0.971	0.933	1.293	0.170	0.343	2.848	1.64	0.848

* * * * *
* Urban local Rural
* File 32, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3288	0.4341	0.1479	>6000	0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.474	0.920	0.971	0.933	1.293	0.170	0.343	2.845	1.64	0.903

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Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* * * * *
* * Rural principle arterial TDM Q1
* *
* * File 13, Run 1, Scenario 2.
* * * * *

```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDRI.CSV
```

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.csv
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

* Rural other principle arterial mix and speeds.

M615 Comment: User supplied VMT mix.

M591 Warning: The user supplied freeway average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```


Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2881	0.4210	0.1436		0.0411	0.0003	0.0021	0.0988	0.0050	1.0000
Composite Emission Factors (g/ml):	0.277	0.604	0.665	0.619	1.022	0.105	0.271	2.428	1.80	0.721

* * * * *
* Rural minor arterial TDM Q1
* File 13, Run 1, Scenario 3.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector/roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2934	0.4287	0.1461		0.0365	0.0003	0.0022	0.0877	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.298	0.633	0.695	0.649	1.149	0.129	0.332	2.610	2.02	0.742

* * * * *
* Rural major collector TDM Q1
* File 13, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.286	0.615	0.677	0.631	1.078	0.110	0.285	2.243	1.85	0.626

* #
* Rural minor collector TDM Q1
* File 13, Run 1, Scenario 5.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0324	0.0003	0.0022	0.0779	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.294	0.627	0.689	0.643	1.126	0.121	0.312	2.456	1.94	0.701

* # # # # # # # # # # # # # # # # # #
* Urban interstate TDM Q1
* File 13, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0518	0.0002	0.0020	0.1245	0.0048	1.0000

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Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.305	0.643	0.706	0.659	1.189	0.147	0.380	3.278	2.23	0.802

* * * * *
* Urban principle arterial TDM Q1
* File 13, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3080	0.4498	0.1533		0.0238	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.280	0.608	0.670	0.624	1.046	0.107	0.275	2.169	1.82	0.622
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban minor arterial TDM Q1

* File 13, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VTM Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.283	0.611	0.673	0.627	1.061	0.107	0.277	2.190	1.84	0.592

* * * * *
 * Urban collector TDM Q1
 * File 13, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590		0.0138	0.0003	0.0023	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.286	0.615	0.677	0.631	1.079	0.110	0.285	2.248	1.85	0.587

* * * * *
* Urban local TDM Q1
* File 13, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4496	0.1533	>6000	0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.290	0.621	0.683	0.636	1.101	0.114	0.294	2.318	1.87	0.643

* * * * *
* Rural interstate Rural

* File 13, Run 1, Scenario 13.

* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

Calendar Year:	2017
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* * * * *
* Rural principle arterial Rural
* File 13, Run 1, Scenario 14.
* * * * *
*
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* * * * *
* Reading PM Diesel Zero Mile Levels

```

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2881	0.4210	0.1436		0.0411	0.0003	0.0021	0.0988	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.290	0.621	0.683	0.636	1.101	0.114	0.294	2.609	1.87	0.756

* # # # # # # # # # # # # # # # # # #

* Rural minor arterial Rural

* File 13, Run 1, Scenario 15.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels


```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT LDGT LDGT LDGT LDGT LDGT LDGT
GVWR: <6000 >6000 (All)

VMT Distribution: 0.3097 0.4523 0.1542 0.0223 0.0003 0.0023 0.0535 0.0054 1.0000
-----
Composite Emission Factors (g/ml):

```


Composite NOX : 0.287 0.617 0.679 0.633 1.086 0.112 0.288 2.269 1.86 0.629

* * * * *
* Rural minor collector Rural
* File 13, Run 1, Scenario 17.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0324	0.0003	0.0022	0.0779	0.0052	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.286 0.615 0.677 0.631 1.078 0.110 0.285 2.244 1.85 0.674

* * * * *
* Urban interstate Rural
* File 13, Run 1, Scenario 19.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0518	0.0002	0.0020	0.1245	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.314	0.656	0.720	0.672	1.237	0.182	0.470	3.969	2.47	1.021

* # # # # # # # # # # # # # # # # # #										
* Urban freeway Rural										
* File 13, Run 1, Scenario 20.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 56.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000
Composite Emission Factors (g/ml):	0.305	0.643	0.706	0.659	1.189	0.147	0.380	3.278	2.23	0.802

* * * * *
* Urban principle arterial Rural
* File 13, Run 1, Scenario 21.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4498	0.1533		0.0238	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.286	0.617	0.681	0.634	0.968	0.107	0.277	2.187	1.70	0.628

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial Rural

* File 13, Run 1, Scenario 22.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.280	0.608	0.670	0.623	0.999	0.105	0.272	2.148	1.76	0.586

* #

* Urban collector Rural

* File 13, Run 1, Scenario 23.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.281	0.609	0.672	0.625	0.991	0.106	0.272	2.151	1.74	0.620

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: DAV17PIN.IN (file 33, run 1).
*****
** Reading Registration Distributions from the following external
** data file: NCAGE07.PRN
**
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
** Rural interstate TDM Q1
** File 33, Run 1, Scenario 1.
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
**
** Reading PM Gas Carbon ZML Levels
** from the external data file PMGZML.CSV
**
** Reading PM Gas Carbon DR1 Levels
** from the external data file PMGDR1.CSV
**
** Reading PM Gas Carbon DR2 Levels
** from the external data file PMGDR2.CSV
**
** Reading PM Diesel Zero Mile Levels
** from the external data file PMDZML.CSV
**
** Reading the First PM Deterioration Rates
** from the external data file PMDDR1.CSV
**
** Reading the Second PM Deterioration Rates
** from the external data file PMDDR2.CSV
** Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.
M 96 Warning:      68.0    speed reduced to 65 mph maximum
M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12
Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)

```

Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2437	0.3561	0.1214		0.0800	0.0002	0.0018	0.1926	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.484	0.921	0.956	0.930	1.260	0.203	0.524	4.393	2.59	1.520

* * * * *
 * Rural principle arterial TDM Q1
 * File 33, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment:

M581 Warning:
 User supplied VMT mix.

The user supplied freeway average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0411	0.0003	0.0021	0.0988	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.432	0.849	0.886	0.859	1.022	0.105	0.271	2.428	1.80	0.901

* * * * *	* * * * *	* * * * *	* * * * *							
* Rural minor arterial TDM Q1										
* File 33, Run 1, Scenario 3.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2934	0.4287	0.1461	>6000	0.0365	0.0003	0.0022	0.0877	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.458	0.884	0.919	0.893	1.149	0.129	0.332	2.610	2.02	0.930

* * * * *
* Rural major collector TDM Q1
* File 33, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.443	0.863	0.899	0.872	1.078	0.110	0.285	2.243	1.85	0.821

* * * * *
* Rural minor collector TDM Q1
* File 33, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.453	0.877	0.912	0.886	1.126	0.121	0.312	2.455	1.94	0.852

* * * * *

* Rural local TDM Q1

* File 33, Run 1, Scenario 6.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0324	0.0003	0.0022	0.0779	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.453	0.877	0.912	0.886	1.126	0.121	0.312	2.456	1.94	0.891

* * * * *
* Urban interstate TDM Q1
* File 33, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2761	0.4032	0.1374		0.0518	0.0002	0.0020	0.1245	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.484	0.921	0.956	0.930	1.260	0.203	0.524	4.390	2.59	1.262

* * * * *
 * Urban freeway TDM Q1
 * File 33, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

VMT Distribution: 0.2950 0.4309 0.1468 0.932 0.897 0.906 1.189 0.147 0.0022 0.0846 0.0051 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx : 0.467 0.897 0.932 0.906 1.189 0.147 0.380 3.278 2.23 0.992
-----

```

```

* * * * *
* Urban principle arterial TDM Q1
* File 33, Run 1, Scenario 9.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

```

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.439	0.858	0.894	0.867	1.061	0.107	0.277	2.190	1.84	0.790

* * * * *
* Urban collector TDM Q1
* File 33, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3192	0.4664	0.1590		0.0138	0.0003	0.0023	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.443	0.863	0.899	0.872	1.079	0.110	0.285	2.248	1.85	0.788

* * * * *
* Urban local TDM Q1
* File 33, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):	0.448	0.869	0.905	0.878	1.101	0.114	0.294	2.318	1.87	0.837

* * * * *
* Rural interstate Rural
* File 33, Run 1, Scenario 13.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment:

M581 Warning:

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.:	75.1 (%)
Maximum Rel. Hum.:	75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP:	14.0 psi
Corrected Fuel RVP:	30.00 (11.3)

NOMINAL FUEL RVP:	14.0 psi
Weathered RVP:	14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap	I/M Program:	No

ATP Program:	Yes
ATP Program:	Yes

Air Program: Yes
 Mutated Gas: No

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:

•

VMT Distribution:

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Composite Emission Factors (g/mi):

Composite NOX : 0.484

[illegible]

* Rural principle arterial Rural

* File 33, Run 1, Scenario 14:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	8												

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

Calendar Year:	2017
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2934	0.4287	0.1461		0.0365	0.0003	0.0022	0.0877	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.446	0.867	0.903	0.876	1.094	0.113	0.291	2.294	1.87	0.886

```
* * * * *
```

Rural major collector Rural

* * File 33, Run 1, Scenario 16.

* * * * *

Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.444	0.865	0.901	0.874	1.086	0.112	0.288	2.269	1.86	0.824

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector Rural
* File 33, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural minor collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VTM Distribution:	0.3080	0.4500	0.1533	0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.443	0.863	0.899	0.872	1.078	0.285	2.244	1.85	0.827

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural local Rural									
* File 33, Run 1, Scenario 18.									
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural local mix and speeds									
M615 Comment:	User supplied VMT mix.								
M583 Warning:	The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.								
M 48 Warning:	there are no sales for vehicle class HDGV8b								
M 48 Warning:	there are no sales for vehicle class LDDT12								
Calendar Year: 2017									
Month: Jan.									
Altitude: Low									
Minimum Temperature:	37.1 (F)								
Maximum Temperature:	53.6 (F)								
Minimum Rel. Hum.:	45.8 (%)								
Maximum Rel. Hum.:	75.1 (%)								
Barometric Pressure:	30.00 (inches Hg)								
Nominal Fuel RVP:	14.0 psi								
Weathered RVP:	14.0 psi								
Fuel Sulfur Content:	30. ppm								
Exhaust I/M Program:	No								
Evap I/M Program:	No								

Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0518	0.0002	0.0020	0.1245	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.479	0.913	0.948	0.922	1.237	0.182	0.470	3.969	2.47	1.202

* # # # # # # # # # # # # # # # # # #										
* Urban freeway Rural										
* File 33, Run 1, Scenario 20.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year: 2017
 Month: Jan.

M583 Warning: The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4498	0.1533	>6000	0.0238	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.444	0.868	0.907	0.878	0.968	0.107	0.277	2.187	1.70	0.824

* * * * *
* Urban minor arterial Rural
* File 33, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.436	0.854	0.892	0.864	0.999	0.105	0.272	2.148	1.76	0.784

* * * * *
* Urban collector Rural
* File 33, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	-----	------	------	----	---------

GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590		0.0138	0.0003	0.0023	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.437	0.856	0.895	0.866	0.991	0.106	0.272	2.154	1.74	0.777
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* * * * *

* Urban local Rural

* File 33, Run 1, Scenario 24.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.437	0.856	0.895	0.866	0.991	0.106	0.272	2.151	1.74	0.814

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.253	0.518	0.553	0.527	1.082	0.196	0.497	3.950	1.98	1.170
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* * * * *
 * Rural principle arterial TDM Q2
 * File 14, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.223	0.470	0.504	0.479	0.878	0.101	0.257	2.177	1.38	0.593

- * Reading PM Gas Carbon ZML Levels
- * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

* Rural minor arterial mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2934	0.4287	0.1461	-----	0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.238	0.494	0.528	0.502	0.987	0.124	0.315	2.350	1.55	0.610
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* * * * *

* Rural major collector TDM Q2

* File 14, Run 1, Scenario 4.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.229	0.479	0.513	0.488	0.926	0.106	0.270	2.019	1.42	0.504

* * * * *

* Rural minor collector TDM Q2

* File 14, Run 1, Scenario 5.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.235	0.489	0.523	0.498	0.967	0.116	0.296	2.210	1.49	0.530

* * * * *
* Rural local TDM Q2
* File 14, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0323	0.0003	0.0022	0.0780	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.235	0.489	0.523	0.498	0.967	0.116	0.296	2.211	1.49	0.573

* # # # # # # # # # # # # # # # # # #
* Urban interstate TDM Q2
* File 14, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

 Composite Emission Factors (g/ml):

Composite NOx :	0.253	0.517	0.553	0.527	1.082	0.196	0.497	3.948	1.98	0.913

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *					
* Urban freeway TDM Q2										
* File 14, Run 1, Scenario 8.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *					
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 56.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year:	2017									
Month:	July									
Altitude:	Low									
Minimum Temperature:	58.5 (F)									
Maximum Temperature:	77.1 (F)									
Minimum Rel. Hum.:	44.3 (%)									
Maximum Rel. Hum.:	82.0 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	10.1 psi									
Weathered RVP:	10.1 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program:	Yes									
Evap I/M Program:	Yes									
ATP Program:	Yes									
Reformulated Gas:	No									

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	58.5
Maximum Temperature:	77.1
Minimum Rel. Hum.:	44.3
Maximum Rel. Hum.:	82.0
Barometric Pressure:	30.00
Nominal Fuel RVP:	10.1
Weathered RVP:	10.1
Fuel Sulfur Content:	30.

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3080	0.4498	0.1533		0.0237	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.226 0.474 0.508 0.482 0.899 0.103 0.261 1.953 1.40 0.502

* * * * *
* Urban minor arterial TDM Q2
* File 14, Run 1, Scenario 10.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.227	0.476	0.510	0.484	0.912	0.104	0.263	1.971	1.41	0.473

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban collector TDM Q2										
* File 14, Run 1, Scenario 11.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 42.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):	0.229	0.479	0.513	0.488	0.927	0.106	0.270	2.023	1.42	0.467

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban local TDM Q2										
* File 14, Run 1, Scenario 12.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT									

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.232	0.484	0.518	0.493	0.946	0.110	0.279	2.087	1.44	0.519

* * * * *
* Rural interstate Rural
* File 14, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.253	0.518	0.553	0.527	1.082	0.196	0.497	3.950	1.98	1.170

* #										
* Rural principle arterial Rural										
* File 14, Run 1, Scenario 14.										
* #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2934	0.4287	0.1461		0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.231	0.482	0.517	0.491	0.940	0.109	0.276	2.065	1.43	0.573

* # # # # # # # # # # # # # # # #
* Rural major collector Rural
* File 14, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # #

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Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.230	0.481	0.515	0.490	0.933	0.107	0.273	2.042	1.43	0.507

* #
* Rural minor collector Rural
* File 14, Run 1, Scenario 17.
* #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12
Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No
Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh

GVWR:	<6000	>6000	(All)						
VT Distribution:	0.3080	0.4500	0.1533						

Composite Emission Factors (g/ml):

Composite NOX :	0.229	0.479	0.513	0.488	0.926	0.106	0.270	2.020	1.42	0.510
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* * * * *

* Rural local Rural

* File 14, Run 1, Scenario 18.

* * * * *

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* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment:

 User supplied VMT mix.

M583 Warning:

 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

 there are no sales for vehicle class HDGV8b

M 48 Warning:

 there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							

VMT Distribution:	0.2981	0.4355	0.1484		0.0323	0.0003	0.0022	0.0780	0.0052	1.0000
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Composite Emission Factors (g/mi):										
Composite NOX :	0.229	0.479	0.513	0.488	0.926	0.106	0.270	2.020	1.42	0.549

* * * * *
 * Urban interstate Rural
 * File 14, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 62.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)

Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.250	0.512	0.548	0.521	1.063	0.175	0.445	3.567	1.89	0.860

* * * * *
 * Urban freeway Rural
 * File 14, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

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- * Reading PM Gas Carbon ZML Levels
- * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDPD1.CSV

User supplied VMT mix.

MS83 Warning:
The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway.

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4498	0.1533	-----	0.0237	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.232	0.482	0.517	0.491	0.831	0.103	0.263	1.969	1.30	0.508
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* * * * *

* Urban minor arterial Rural

* File 14, Run 1, Scenario 22.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3164	0.4625	0.1577	>6000	0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.226	0.473	0.508	0.482	0.859	0.101	0.258	1.933	1.35	0.468

* * * * *

* Urban collector Rural

* File 14, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.227	0.475	0.510	0.484	0.852	0.102	0.258	1.939	1.34	0.460

* * * * *
* Urban local Rural
* File 14, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.227	0.475	0.510	0.484	0.851	0.102	0.258	1.936	1.34	0.501

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: DAV17P2N.IN (file 34, run 1).  
*****  
  
** Reading Registration Distributions from the following external  
** data file: NCAGE07.PRN  
  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
** Rural interstate TDM Q2  
** File 34, Run 1, Scenario 1.  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
** Reading PM Gas Carbon ZML Levels  
** from the external data file PMGZML.CSV  
  
** Reading PM Gas Carbon DR1 Levels  
** from the external data file PMGDR1.CSV  
  
** Reading PM Gas Carbon DR2 Levels  
** from the external data file PMGDR2.CSV  
  
** Reading PM Diesel Zero Mile Levels  
** from the external data file PMDZML.CSV  
  
** Reading the First PM Deterioration Rates  
** from the external data file PMDDR1.CSV  
  
** Reading the Second PM Deterioration Rates  
** from the external data file PMDDR2.CSV  
Rural interstate mix and speeds  
M615 Comment:  
    User supplied VMT mix.  
  
M 96 Warning:      68.0   speed reduced to 65 mph maximum  
  
M581 Warning:  
    The user supplied freeway average speed of 65.0  
    will be used for all hours of the day. 100% of VMT  
    has been assigned to the freeway roadway type for  
    all hours of the day and all vehicle types.  
  
M 48 Warning:  
    there are no sales for vehicle class HDGV8b  
  
M 48 Warning:  
    there are no sales for vehicle class LDDT12  
  
Calendar Year: 2017  
Month: July  
Altitude: Low  
Minimum Temperature: 58.5 (F)  
Maximum Temperature: 77.1 (F)  
Minimum Rel. Hum.: 44.3 (%)  
Maximum Rel. Hum.: 82.0 (%)
```


Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.382	0.738	0.729	0.736	1.082	0.196	0.497	3.950	1.98	1.301

* * * * *
* Rural principle arterial TDM Q2
* File 34, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.346	0.680	0.672	0.678	0.878	0.101	0.257	2.177	1.38	0.741

* * * * *
* Rural minor arterial TDM Q2
* File 34, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2934	0.4287	0.1461		0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.364	0.708	0.699	0.706	0.987	0.124	0.315	2.350	1.55	0.764

* * * * *
* Rural major collector TDM Q2
* File 34, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.:	82.0 (%)
Minimum Rel. Hum.:	11.5 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap	I/M Program:	No
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Evaluated	ATP Program:	Yes	No
1/1	Program:	Yes	No

Reformulated Gas: No
Air Program: No

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:

VMT Distribution:

1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1
24	1
25	1
26	1
27	1
28	1
29	1
30	1
31	1
32	1
33	1
34	1
35	1
36	1
37	1
38	1
39	1
40	1
41	1
42	1
43	1
44	1
45	1
46	1
47	1
48	1
49	1
50	1
51	1
52	1
53	1
54	1
55	1
56	1
57	1
58	1
59	1
60	1
61	1
62	1
63	1
64	1
65	1
66	1
67	1
68	1
69	1
70	1
71	1
72	1
73	1
74	1
75	1
76	1
77	1
78	1
79	1
80	1
81	1
82	1
83	1
84	1
85	1
86	1
87	1
88	1
89	1
90	1
91	1
92	1
93	1
94	1
95	1
96	1
97	1
98	1
99	1
100	1

Composite Emission Factors (g/mi):

Composite NOX : 0.

----- VON 27.02.2009 -----

[illegible]

* Rural minor collector TDM Q2

* File 34, Run 1, Scenario 5.

Category	Item	Value
* COTTON	100	100
	200	200
	300	300
	400	400
	500	500
	600	600
	700	700
	800	800
	900	900
	1000	1000

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file `PMDZML.csv`

* Reading the First PM Deterioration Rates

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.382	0.738	0.729	0.736	1.082	0.196	0.497	3.948	1.98	1.062

```

* * * * *
* Urban freeway TDM Q2
* File 34, Run 1, Scenario 8.
* * * * *

```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.csv
```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.csv

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix:

M581 Warning:

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class 1.DDT12

Calendar Year: 2017
Month: July

Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP:	10.1 psi
-------------------	----------

Weathered RVP: 10.1 psi

Final Sulfur Content: 30 ppm

COMMITTEE: TRAINING

Enph: 4 T/M Decem: NC

EXHAUST I/M PROGRAM:	NO
TEST I/M PROGRAM:	NO

	No
Evap I/M Program:	X

ALP Program:	Yes
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1
24	1
25	1
26	1
27	1
28	1
29	1
30	1
31	1
32	1
33	1
34	1
35	1
36	1
37	1
38	1
39	1
40	1
41	1
42	1
43	1
44	1
45	1
46	1
47	1
48	1
49	1
50	1
51	1
52	1
53	1
54	1
55	1
56	1
57	1
58	1
59	1
60	1
61	1
62	1
63	1
64	1
65	1
66	1
67	1
68	1
69	1
70	1
71	1
72	1
73	1
74	1
75	1
76	1
77	1
78	1
79	1
80	1
81	1
82	1
83	1
84	1
85	1
86	1
87	1
88	1
89	1
90	1
91	1
92	1
93	1
94	1
95	1
96	1
97	1
98	1
99	1
100	1

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:	<6000	>6000	(All)
VT Distribution:	0.2950	0.4309	0.1468
Composite Emission Factors (g/ml):			
Composite NOX :	0.371	0.719	0.710
	0.717	1.022	0.142
	0.0351	0.0003	0.0022
	0.0846	0.0051	1.0000
	2.944	1.71	0.818

* * * * *
* Urban principle arterial TDM Q2
* File 34, Run 1, Scenario 9.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12
Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4498	0.1533		0.0237	0.0003	0.0023	0.0573	0.0053	1.0000

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban minor arterial TDM Q2
* File 34, Run 1, Scenario 10.
```

- * Reading PM Gas Carbon DR1 Levels
- * from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```
M 48 Warning:
      there are no sales for vehicle class LDDT12
```

Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)

Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.351	0.686	0.679	0.684	0.912	0.104	0.263	1.971	1.41	0.636

* * * * *
 * Urban collector TDM Q2
 * File 34, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

On-road Mobile Source Emission Inventory Documentation
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Appendix C.3
December 18, 2009

- * Reading PM Gas Carbon ZML Levels
- * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4496	0.1533	-----	0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.357	0.696	0.688	0.694	0.946	0.110	0.279	2.087	1.44	0.679
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * * Rural interstate Rural

* File 34, Run 1, Scenario 13.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2437	0.3561	0.1214	>6000	0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.382	0.738	0.729	0.736	1.082	0.196	0.497	3.950	1.98	1.301

* * * * *

* Rural principle arterial Rural

* File 34, Run 1, Scenario 14.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.357	0.696	0.688	0.694	0.946	0.110	0.279	2.341	1.44	0.773

* * * * *
 * Rural minor arterial Rural
 * File 34, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 >6000 -----
VMT Distribution: 0.2934 0.4287 0.1461 0.0364 0.0003 0.0022 0.0878 0.0051 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX : 0.356 0.694 0.686 0.692 0.940 0.109 0.276 2.065 1.43 0.726
-----

* * * * *
* Rural major collector Rural
* File 34, Run 1, Scenario 16.
* * * * *
```


* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.354	0.693	0.685	0.691	0.933	0.107	0.273	2.042	1.43	0.667

* * * * *
 * Rural minor collector Rural
 * File 34, Run 1, Scenario 17.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds

M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000
 HDGV HDDV LDDT HDDV MC All Veh

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Redesignation Demonstration and Maintenance Plan

Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0323	0.0003	0.0022	0.0780	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.353	0.691	0.683	0.689	0.926	0.106	0.270	2.020	1.42	0.703

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* Urban interstate Rural										
* File 34, Run 1, Scenario 19.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment: User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 62.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2017										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.379	0.732	0.723	0.730	1.063	0.175	0.445	3.567	1.89	1.008

* * * * *
* Urban freeway Rural
* File 34, Run 1, Scenario 20.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.371	0.719	0.710	0.717	1.022	0.142	0.360	2.944	1.71	0.818

* * * * *
* Urban principle arterial Rural
* File 34, Run 1, Scenario 21.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3080	0.4498	0.1533		0.0237	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):	0.358	0.696	0.690	0.694	0.831	0.103	0.263	1.969	1.30	0.669

* * * * *
* Urban minor arterial Rural
* File 34, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000
Composite Emission Factors (g/mi):	0.350	0.684	0.678	0.683	0.859	0.101	0.258	1.933	1.35	0.632

* * * * *
* Urban collector Rural
* File 34, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.352	0.686	0.680	0.684	0.852	0.102	0.258	1.939	1.34	0.625

* #										
* Urban local Rural										
* File 34, Run 1, Scenario 24.										
* #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.352	0.686	0.680	0.684	0.851	0.102	0.258	1.936	1.34	0.660

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Redesignation Demonstration and Maintenance Plan

Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.226	0.454	0.487	0.463	1.123	0.196	0.497	3.950	1.66	1.135
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* * * * *
 * Rural principle arterial TDM Q3
 * File 15, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.204	0.411	0.442	0.419	0.911	0.101	0.257	2.177	1.16	0.554

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

* Rural minor arterial mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.2934	0.4287	0.1461		0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.214	0.433	0.464	0.441	1.025	0.124	0.315	2.350	1.30	0.567
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural major collector TDM Q3

* File 15, Run 1, Scenario 4.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3097	0.4523	0.1542	-----	0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.208	0.420	0.451	0.428	0.961	0.106	0.270	2.019	1.19	0.460

* * * * *
 * Rural minor collector TDM Q3
 * File 15, Run 1, Scenario 5.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.212	0.428	0.460	0.436	1.004	0.116	0.296	2.210	1.25	0.486

* * * * *
* Rural local TDM Q3
* File 15, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV


```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 >6000 -----
VMT Distribution: 0.2981 0.4355 0.1484 0.0323 1.004 0.116 0.296 2.211 0.0052 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX : 0.212 0.428 0.460 0.436 1.004 0.116 0.296 2.211 1.25 0.530
-----

* * * * *
* Urban interstate TDM Q3
* File 15, Run 1, Scenario 7.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000
Composite Emission Factors (g/ml):										

Composite NOx :	0.226	0.454	0.487	0.463	1.123	0.196	0.497	3.948	1.66	0.871
* Urban freeway TDM Q3										
* File 15, Run 1, Scenario 8.										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 56.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2017										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.2950	0.4309	0.1468	-----	0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.218	0.440	0.472	0.448	1.060	0.142	0.360	2.944	1.43	0.618

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban principle arterial TDM Q3										
* File 15, Run 1, Scenario 9.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban principle arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 38.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2017										
	Month: July									
	Altitude: Low									
	Minimum Temperature: 68.2 (F)									
	Maximum Temperature: 83.1 (F)									
	Minimum Rel. Hum.: 56.8 (%)									
	Maximum Rel. Hum.: 86.8 (%)									
	Barometric Pressure: 30.00 (inches Hg)									
	Nominal Fuel RVP: 7.8 psi									
	Weathered RVP: 7.7 psi									
	Fuel Sulfur Content: 30. ppm									

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4498	0.1533		0.0237	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.205 0.415 0.446 0.423 0.933 0.103 0.261 1.953 1.17 0.459

* # # # # # # # # # # # # # # # #
* Urban minor arterial TDM Q3
* File 15, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # #
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 40.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.206	0.417	0.448	0.424	0.946	0.104	0.263	1.971	1.18	0.428

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban collector TDM Q3										
* File 15, Run 1, Scenario 11.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 42.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.210	0.424	0.455	0.432	0.982	0.110	0.279	2.087	1.21	0.475

* * * * *
* Rural interstate Rural
* File 15, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.226	0.454	0.487	0.463	1.123	0.196	0.497	3.950	1.66	1.135

* # # # # # # # # # # # # # # # # # #

* Rural principle arterial Rural

* File 15, Run 1, Scenario 14.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LBDTL12
```

Exhaust	I/M Program:	Yes
Evap	I/M Program:	Yes
	ATP Program:	Yes
	Reformulated Gas:	No

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2934	0.4287	0.1461	0.0364	0.0003	0.0022	0.0878	0.0051	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.209	0.423	0.454	0.430	0.975	0.109	0.276	2.065	1.20	0.532

* # # # # # # # # # # # # # # # #
* Rural major collector Rural
* File 15, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.208	0.421	0.452	0.429	0.968	0.107	0.273	2.042	1.20	0.463

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution: 0.2981 0.4355 0.1484 0.0323 0.0003 0.0022 0.0780 0.0052 1.0000

Composite Emission Factors (g/mi):

Composite NOX : 0.208 0.420 0.451 0.428 0.961 0.106 0.270 2.020 1.19 0.507

* * * * *
 * Urban interstate Rural
 * File 15, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	68.2 (F)
Maximum Temperature:	83.1 (F)
Minimum Rel. Hum.:	56.8 (%)

Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.223	0.450	0.482	0.458	1.103	0.175	0.445	3.567	1.59	0.819

* * * * *
 * Urban freeway Rural
 * File 15, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

1575
Appendix C.3
December 18, 2009

The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment:

M615 Comment:

User supplied VMT mix.

The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4498	0.1533	-----	0.0237	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.214	0.423	0.456	0.432	0.863	0.103	0.263	1.969	1.09	0.466
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban minor arterial Rural

* File 15, Run 1, Scenario 22.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3164	0.4625	0.1577	>6000	0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.207	0.415	0.447	0.423	0.891	0.101	0.258	1.933	1.13	0.425

* * * * *

* Urban collector Rural

* File 15, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.209	0.416	0.448	0.425	0.884	0.102	0.258	1.939	1.12	0.416

* * * * *
* Urban local Rural
* File 15, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.209	0.416	0.448	0.425	0.883	0.102	0.258	1.936	1.12	0.459

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: DAV17P3N.IN (file 35, run 1).
*****
** Reading Registration Distributions from the following external
** data file: NCAGE07.PRN
*****
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
** Rural interstate TDM Q3
** File 35, Run 1, Scenario 1.
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*****
** Reading PM Gas Carbon ZML Levels
** from the external data file PMGZML.CSV
*****
** Reading PM Gas Carbon DR1 Levels
** from the external data file PMGDR1.CSV
*****
** Reading PM Gas Carbon DR2 Levels
** from the external data file PMGDR2.CSV
*****
** Reading PM Diesel Zero Mile Levels
** from the external data file PMDZML.CSV
*****
** Reading the First PM Deterioration Rates
** from the external data file PMDDR1.CSV
*****
** Reading the Second PM Deterioration Rates
** from the external data file PMDDR2.CSV
** Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.
M 96 Warning: 68.0 speed reduced to 65 mph maximum
*****
M581 Warning: The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*****
M 48 Warning: there are no sales for vehicle class HDGV8b
*****
M 48 Warning: there are no sales for vehicle class LDDTL2
*****
Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)

```

Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.339	0.647	0.641	0.646	1.123	0.196	0.497	3.950	1.66	1.250

* * * * *
 * Rural principle arterial TDM Q3
 * File 35, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural other principle arterial mix and speeds
 M615 Comment:

M581 Warning: User supplied VMT mix.
 The user supplied freeway average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.314	0.596	0.591	0.594	0.911	0.101	0.257	2.177	1.16	0.685

* * * * *	* * * * *	* * * * *	* * * * *							
* Rural minor arterial TDM Q3										
* File 35, Run 1, Scenario 3.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2934	0.4287	0.1461	>6000	0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.326	0.621	0.615	0.619	1.025	0.124	0.315	2.350	1.30	0.703

* * * * *
* Rural major collector TDM Q3
* File 35, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.318	0.605	0.600	0.604	0.961	0.106	0.270	2.019	1.19	0.601

* * * * *
* Rural minor collector TDM Q3
* File 35, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/ml):

Composite NOX :	0.323	0.615	0.610	0.614	1.004	0.116	0.296	2.210	1.25	0.627
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural local TDM Q3

* File 35, Run 1, Scenario 6.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0323	0.0003	0.0022	0.0780	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.323	0.615	0.610	0.614	1.004	0.116	0.296	2.211	1.25	0.667

* * * * *
* Urban interstate TDM Q3
* File 35, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum
 M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.339	0.647	0.641	0.646	1.123	0.196	0.497	3.948	1.66	1.002

* * * * *
 * Urban freeway TDM Q3
 * File 35, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000
 HDGV HDDV LDDT
 MC All Veh

VMT Distribution:	0.2950	0.4309	0.1468	0.0351	0.0003	0.0022	0.0846	0.0051

Composite Emission Factors (g/mi):								
Composite NOx :	0.331	0.630	0.624	0.628	1.060	0.142	0.360	1.43
							2.944	0.755

								1.0000

```

* * * * *
* * Urban principle arterial TDM Q3
* * File 35, Run 1, Scenario 9.

```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

```
M615 Comment:      User supplied VMT mix.
```

The user supplied arterial average speed of 38.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

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Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.317	0.601	0.596	0.600	0.946	0.104	0.263	1.971	1.18	0.572

* * * * *
* Urban collector TDM Q3
* File 35, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.318	0.605	0.600	0.604	0.962	0.106	0.270	2.023	1.19	0.567

* * * * *
* Urban local TDM Q3
* File 35, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):	0.321	0.610	0.605	0.609	0.982	0.110	0.279	2.087	1.21	0.616

* * * * *
* Rural interstate Rural
* File 35, Run 1, Scenario 13.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.339	0.647	0.641	0.646	1.123	0.196	0.497	3.950	1.66	1.250

* # # # # # # # # # # # # # # # # # #
* Rural principle arterial Rural
* File 35, Run 1, Scenario 14.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.321	0.610	0.605	0.609	0.982	0.110	0.279	2.341	1.21	0.714

* #										
* Rural minor arterial Rural										
* File 35, Run 1, Scenario 15.										
* #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.319	0.607	0.602	0.605	0.968	0.107	0.273	2.042	1.20	0.604

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector Rural
* File 35, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural minor collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VTM Distribution:	0.3080	0.4500	0.1533	0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.318	0.605	0.600	0.604	0.961	0.106	0.270	1.19	0.607

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural local Rural									
* File 35, Run 1, Scenario 18.									
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural local mix and speeds									
M615 Comment:	User supplied VMT mix.								
M583 Warning:	The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.								
M 48 Warning:	there are no sales for vehicle class HDGV8b								
M 48 Warning:	there are no sales for vehicle class LDDT12								
Calendar Year: 2017									
Month: July									
Altitude: Low									
Minimum Temperature: 68.2 (F)									
Maximum Temperature: 83.1 (F)									
Minimum Rel. Hum.: 56.8 (%)									
Maximum Rel. Hum.: 86.8 (%)									
Barometric Pressure: 30.00 (inches Hg)									
Nominal Fuel RVP: 7.8 psi									
Weathered RVP: 7.7 psi									
Fuel Sulfur Content: 30. ppm									
Exhaust I/M Program: No									
Evap I/M Program: No									

ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2981	0.4355	0.1484		0.0323	0.0003	0.0022	0.0780	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.318	0.605	0.600	0.604	0.961	0.106	0.270	2.020	1.19	0.643

* # # # # # # # # # # # # # # # #										
* Urban interstate Rural										
* File 35, Run 1, Scenario 19.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 62.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2017										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDVT	HDDV	MC	All Veh
VMT Distribution:	0.2761	0.4032	0.1374	---	0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOx :	0.337	0.642	0.636	0.640	1.103	0.175	0.445	3.567	1.59	0.949

* * * * *
* Urban freeway Rural
* File 35, Run 1, Scenario 20.

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

- * Reading the Second PM Deterioration Rates
- * from the external data file PMDDR2.CSV
- * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.331	0.630	0.624	0.628	1.060	0.142	0.360	2.944	1.43	0.755

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban principle arterial Rural	#	#	#	#	#	#	#	#	#	#
* File 35, Run 1, Scenario 21.	#	#	#	#	#	#	#	#	#	#
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR1 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR2 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Diesel Zero Mile Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the First PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the Second PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Urban principle arterial mix and speeds	#	#	#	#	#	#	#	#	#	#
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 28.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3080	0.4498	0.1533	0.0237	0.0003	0.0023	0.0573	0.0053	1.0000	
Composite Emission Factors (g/ml):										
Composite NOX :	0.328	0.612	0.608	0.611	0.863	0.103	0.263	1.969	1.09	0.609

* * * * *
* Urban minor arterial Rural
* File 35, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.319	0.600	0.596	0.599	0.891	0.101	0.258	1.933	1.13	0.569

* * * * *
* Urban collector Rural
* File 35, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	-----	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3192	0.4664	0.1589	-----	0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.321	0.602	0.598	0.601	0.884	0.102	0.258	1.939	1.12	0.562
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* * * * *

* Urban local Rural

* File 35, Run 1, Scenario 24.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.321	0.602	0.598	0.601	0.883	0.102	0.258	1.936	1.12	0.600

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0803	0.0002	0.0018	0.1923	0.0042	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.266	0.565	0.627	0.581	1.121	0.163	0.463	3.644	2.43	1.144

* # # # # # # # # # # # # # # # #										
* Rural principle arterial TDM Q4										
* File 16, Run 1, Scenario 2.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural other principle arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 35.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2881	0.4210	0.1436		0.0412	0.0003	0.0021	0.0987	0.0050	1.0000
Composite Emission Factors (g/ml):	0.230	0.513	0.571	0.528	0.909	0.084	0.239	1.957	1.69	0.604

* * * * *
* Rural minor arterial TDM Q4
* File 16, Run 1, Scenario 3.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 51.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector road way
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2934	0.4287	0.1462		0.0366	0.0003	0.0021	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.249	0.539	0.598	0.554	1.022	0.103	0.293	2.188	1.90	0.631

* # # # # # # # # # # # # # # # # # #

* Rural major collector TDM Q4

* File 16, Run 1, Scenario 4.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.238	0.523	0.581	0.538	0.959	0.089	0.251	1.872	1.74	0.531

* # # # # # # # # # # # # # # # # # #

* Rural minor collector TDM Q4

* File 16, Run 1, Scenario 5.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low

Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0519	0.0002	0.0020	0.1244	0.0048	1.0000

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3080	0.4498	0.1533		0.0238	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.233	0.517	0.575	0.532	0.931	0.086	0.243	1.809	1.71	0.528
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* * * * *

* Urban minor arterial TDM Q4

* File 16, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.235	0.519	0.577	0.534	0.944	0.086	0.245	1.827	1.73	0.502

* * * * *
 * Urban collector TDM Q4
 * File 16, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590		0.0139	0.0003	0.0023	0.0334	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.238	0.523	0.581	0.538	0.960	0.089	0.251	1.877	1.74	0.499

* * * * *
* Urban local TDM Q4
* File 16, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3080	0.4496	0.1533		0.0239	0.0003	0.0023	0.0573	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.241	0.528	0.587	0.543	0.979	0.092	0.260	1.937	1.76	0.546

* * * * *
* Rural interstate Rural
* File 16, Run 1, Scenario 13.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2437	0.3561	0.1214		0.0803	0.0002	0.0018	0.1923	0.0042	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.266	0.565	0.627	0.581	1.121	0.163	0.463	3.644	2.43	1.144

* # # # # # # # # # # # # # # # # # # #
* Rural principle arterial Rural
* File 16, Run 1, Scenario 14.
* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2881	0.4210	0.1436		0.0412	0.0003	0.0021	0.0987	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.241	0.528	0.587	0.543	0.980	0.092	0.260	2.113	1.76	0.634

* * * * *

* Rural minor arterial Rural

* File 16, Run 1, Scenario 15.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2934	0.4287	0.1462		0.0366	0.0003	0.0021	0.0876	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.240	0.527	0.585	0.541	0.973	0.091	0.257	1.916	1.75	0.595

* # # # # # # # # # # # # # # # # # # #
* Rural major collector Rural
* File 16, Run 1, Scenario 16.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.3097 0.4523 0.1542
-----
Composite Emission Factors (g/ml):

```

Composite NOX :	0.239	0.525	0.583	0.540	0.966	0.090	0.254	1.895	1.75	0.534
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural minor collector Rural										
* File 16, Run 1, Scenario 17.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2018										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0325	0.0003	0.0022	0.0778	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.238	0.523	0.581	0.538	0.959	0.089	0.251	1.873	1.74	0.572

* # # # # # # # # # # # # # # # #										
* Urban interstate Rural										
* File 16, Run 1, Scenario 19.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 62.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year:	2018									
Month:	Jan.									
Altitude:	Low									
Minimum Temperature:	44.0 (F)									
Maximum Temperature:	55.9 (F)									

Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0519	0.0002	0.0020	0.1244	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.263	0.560	0.621	0.575	1.101	0.146	0.415	3.281	2.32	0.861

* # # # # # # # # # # # # # # # # # #										
* Urban freeway Rural										
* File 16, Run 1, Scenario 20.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 56.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

The user supplied arterial average speed of 28.0 will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4498	0.1533		0.0238	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.238	0.525	0.585	0.540	0.861	0.086	0.245	1.824	1.60	0.533

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial Rural

* File 16, Run 1, Scenario 22.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.233	0.516	0.575	0.531	0.889	0.085	0.240	1.791	1.65	0.497

* #

* Urban collector Rural

* File 16, Run 1, Scenario 23.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590	0.0139	0.0003	0.0023	0.0334	0.0055	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.234	0.518	0.576	0.533	0.882	0.085	0.241	1.796	1.64	0.489

* # # # # # # # # # # # # # # # #
* Urban local Rural
* File 16, Run 1, Scenario 24.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.

Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3080	0.4496	0.1533		0.0239	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.234	0.518	0.576	0.533	0.881	0.085	0.241	1.793	1.64	0.526

```
*****  
** MOBILE6.2.O3 (24-Sep-2003) *  
** Input file: DAV17P4N.IN (file 36, run 1). *  
*****  
  
** Reading Registration Distributions from the following external  
** data file: NCAGE07.PRN  
  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
** Rural interstate TDM Q4  
** File 36, Run 1, Scenario 1.  
** # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
** Reading PM Gas Carbon ZML Levels  
** from the external data file PMGZML.CSV  
  
** Reading PM Gas Carbon DR1 Levels  
** from the external data file PMGDR1.CSV  
  
** Reading PM Gas Carbon DR2 Levels  
** from the external data file PMGDR2.CSV  
  
** Reading PM Diesel Zero Mile Levels  
** from the external data file PMDZML.CSV  
  
** Reading the First PM Deterioration Rates  
** from the external data file PMDDR1.CSV  
  
** Reading the Second PM Deterioration Rates  
** from the external data file PMDDR2.CSV  
** Rural interstate mix and speeds  
M615 Comment: User supplied VMT mix.  
M 96 Warning: 68.0 speed reduced to 65 mph maximum  
M581 Warning:  
The user supplied freeway average speed of 65.0  
will be used for all hours of the day. 100% of VMT  
has been assigned to the freeway roadway type for  
all hours of the day and all vehicle types.  
M 48 Warning:  
there are no sales for vehicle class HDGV8b  
M 48 Warning:  
there are no sales for vehicle class LDDT12  
  
Calendar Year: 2018  
Month: Jan.  
Altitude: Low  
Minimum Temperature: 44.0 (F)  
Maximum Temperature: 55.9 (F)  
Minimum Rel. Hum.: 61.6 (%)  
Maximum Rel. Hum.: 85.1 (%)  
Barometric Pressure: 30.00 (inches Hg)
```

Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2437	0.3561	0.1214		0.0803	0.0002	0.0018	0.1923	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.425	0.815	0.848	0.824	1.121	0.163	0.463	3.644	2.43	1.299

* * * * *
* Rural principle arterial TDM Q4
* File 36, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.

M 48 Warning:

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2934	0.4287	0.1462	>6000	0.0366	0.0003	0.0021	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.402	0.781	0.814	0.790	1.022	0.103	0.293	2.188	1.90	0.811

* * * * *
* Rural major collector TDM Q4
* File 36, Run 1, Scenario 4.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.388	0.762	0.795	0.770	0.959	0.089	0.251	1.872	1.74	0.719

* * * * *
* Rural minor collector TDM Q4
* File 36, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4500	0.1533		0.0238	0.0003	0.0023	0.0570	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.397	0.775	0.807	0.783	1.002	0.097	0.276	2.054	1.82	0.746

* #

* Rural local TDM Q4

* File 36, Run 1, Scenario 6.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0325	0.0003	0.0022	0.0778	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.397	0.775	0.807	0.783	1.002	0.097	0.276	2.055	1.82	0.778

* * * * *
* Urban interstate TDM Q4
* File 36, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0519	0.0002	0.0020	0.1244	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.425	0.815	0.848	0.824	1.121	0.163	0.463	3.642	2.43	1.086

* * * * *
 * Urban freeway TDM Q4
 * File 36, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000
 HDGV HDDV LDDT
 MC All Veh

VMT Distribution: 0.2950 0.4309 0.1468 0.826 0.793 0.802 1.058 0.118 0.003 0.0022 0.0845 2.09 1.0000

 Composite Emission Factors (g/mi):
 Composite NOx : 0.410 0.793 0.826 0.802 1.058 0.118 0.336 2.687 2.09 0.860

* * * * *
 * Urban principle arterial TDM Q4
 * File 36, Run 1, Scenario 9.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.384	0.757	0.790	0.765	0.944	0.086	0.245	1.827	1.73	0.693

* * * * *
* Urban collector TDM Q4
* File 36, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3192	0.4664	0.1590		0.0139	0.0003	0.0023	0.0334	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.388	0.762	0.795	0.770	0.960	0.089	0.251	1.877	1.74	0.691

* * * * *
* Urban local TDM Q4
* File 36, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3080	0.4496	0.1533		0.0239	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.392	0.768	0.801	0.776	0.979	0.092	0.260	1.937	1.76	0.733

* * * * *
* Rural interstate Rural
* File 36, Run 1, Scenario 13.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment:

M581 Warning:

M 48 Warning:

M 48 Warning:

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Altitude: Low

Maximum Temperature: 55.9 (F)

Maximum Rel. Hum.: 85.1 (%)

Nominal Fuel RVP:	14.0 psi
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el Sulfur Content: 30. ppm

haust I/M Program: No

Eval	I/M Program	ATP Program	Yes	No
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RETORTED GAS. NO

LDGV
Type: LDGII
VWR: <6000

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Carbon ZML Levels

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nal data file PMGDR1.CSV

Carbon DR2 Levels

nal data file PMDZML.CSV

First PM Deterioration Rate

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2437	0.3561	0.1214		0.0803	0.0002	0.0018	0.1923	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.425	0.815	0.848	0.824	1.121	0.163	0.463	3.644	2.43	1.299

```
* * * * *
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Rural principle arterial Rural

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* * * * *
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File 36, Run 1, Scenario 14.

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* * * * *
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

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Calendar Year:	2018
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2934	0.4287	0.1462	0.0366	0.0003	0.0021	0.0876	0.0051	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.391	0.766	0.799	0.774	0.973	0.091	0.257	1.916	1.75	0.773

```
* * * * *
```

Rural major collector Rural

* * File 36, Run 1, Scenario 16.

* * * * *

Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.389	0.764	0.797	0.772	0.966	0.090	0.254	1.895	1.75	0.722

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor collector Rural
* File 36, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural minor collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VTM Distribution:	0.3080	0.4500	0.1533	0.0238	0.0003	0.0023	0.0570	0.0053	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.388	0.762	0.795	0.770	0.959	0.251	1.873	1.74	0.723

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural local Rural									
* File 36, Run 1, Scenario 18.									
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural local mix and speeds									
M615 Comment:	User supplied VMT mix.								
M583 Warning:	The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.								
M 48 Warning:	there are no sales for vehicle class HDGV8b								
M 48 Warning:	there are no sales for vehicle class LDDT12								
Calendar Year: 2018									
Month: Jan.									
Altitude: Low									
Minimum Temperature:	44.0 (F)								
Maximum Temperature:	55.9 (F)								
Minimum Rel. Hum.:	61.6 (%)								
Maximum Rel. Hum.:	85.1 (%)								
Barometric Pressure:	30.00 (inches Hg)								
Nominal Fuel RVP:	14.0 psi								
Weathered RVP:	14.0 psi								
Fuel Sulfur Content:	30. ppm								
Exhaust I/M Program:	No								
Evap I/M Program:	No								

ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2981	0.4355	0.1484		0.0325	0.0003	0.0022	0.0778	0.0052	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.388 0.762 0.795 0.770 0.959 0.089 0.251 1.873 1.74 0.752

* * * * *
* Urban interstate Rural
* File 36, Run 1, Scenario 19.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0519	0.0002	0.0020	0.1244	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.420	0.808	0.841	0.816	1.101	0.146	0.415	3.281	2.32	1.034

* # # # # # # # # # # # # # # # # #
* Urban freeway Rural
* File 36, Run 1, Scenario 20.
* # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment:

M581 Warning: User supplied VMT mix.

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0352	0.0003	0.0022	0.0845	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.410	0.793	0.826	0.802	1.058	0.118	0.336	2.687	2.09	0.860

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban principle arterial Rural										
* File 36, Run 1, Scenario 21.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban principle arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 28.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3080	0.4498	0.1533		0.0238	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.388	0.766	0.801	0.775	0.861	0.086	0.245	1.824	1.60	0.721

* * * * *
* Urban minor arterial Rural
* File 36, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.381	0.754	0.788	0.763	0.889	0.085	0.240	1.791	1.65	0.688

* * * * *
* Urban collector Rural
* File 36, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.3192	0.4664	0.1590		0.0139	0.0003	0.0023	0.0334	0.0055	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.382	0.756	0.790	0.764	0.882	0.085	0.241	1.796	1.64	0.682
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* * * * *

* Urban local Rural

* File 36, Run 1, Scenario 24.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533		0.0239	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.382	0.756	0.790	0.764	0.881	0.085	0.241	1.793	1.64	0.712

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
 data file: TECH12.D

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
 * from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
 * from the external data file PMNH3SDR.D

Calendar Year: 2021
 Month: Jan.

Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2317	0.3652	0.1245	-----	0.0804	0.0002	0.0018	0.1920	0.0042	1.0000

Composite Emission Factors (g/ml):										

Composite NOx :	0.202	0.464	0.571	0.491	0.873	0.123	0.373	2.540	2.59	0.857
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural principle arterial TDM Q1										
* File 1, Run 1, Scenario 2.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural other principle arterial mix and speeds										
M615 Comment:										
	User supplied VMT mix.									
M581 Warning:										
	The user supplied freeway average speed of 35.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:										
	there are no sales for vehicle class HDGV8b									
M 48 Warning:										
	there are no sales for vehicle class LDDT12									
Calendar Year:	2021									
Month:	Jan.									
Altitude:	Low									
Minimum Temperature:	37.1 (F)									
Maximum Temperature:	53.6 (F)									
Minimum Rel. Hum.:	45.8 (%)									
Maximum Rel. Hum.:	75.1 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	14.0 psi									
Weathered RVP:	14.0 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program:	Yes									
Evap I/M Program:	Yes									
ATP Program:	Yes									
Reformulated Gas:	No									

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	Hdgv	LDDV	LDDT	HDDV	MC	All Vel
GVMR:										
VMT Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.173	0.420	0.520	0.445	0.708	0.064	0.192	1.345	1.80	0.476

* * * * *	# # # # #	# # # # #	# # # # #							
* Rural minor arterial TDM Q1										
* File 1, Run 1, Scenario 3.										
* * * * *	# # # # #	# # # # #	# # # # #							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:										
The user supplied arterial average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2021										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 37.1 (F)										
Maximum Temperature: 53.6 (F)										
Minimum Rel. Hum.: 45.8 (%)										
Maximum Rel. Hum.: 75.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.187 0.440 0.543 0.466 0.791 0.076 0.229 1.484 1.98 0.497

* * * * *
* Rural major collector TDM Q1
* File 1, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.178	0.427	0.528	0.453	0.742	0.066	0.200	1.287	1.85	0.430

* # # # # # # # # # # # # # # # # # #										
* Rural minor collector TDM Q1										
* File 1, Run 1, Scenario 5.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 48.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.185	0.437	0.540	0.463	0.780	0.073	0.222	1.434	1.94	0.452

* * * * *
* Rural local TDM Q1
* File 1, Run 1, Scenario 6.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector road-
way type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDTL2

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.185	0.437	0.540	0.463	0.781	0.073	0.222	1.434	1.94	0.477

* # # # # # # # # # # # # # # # # # #

* Urban interstate TDM Q1

* File 1, Run 1, Scenario 7.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M 96 Warning:

67.0 speed reduced to 65 mph maximum

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.202	0.464	0.571	0.491	0.874	0.123	0.373	2.540	2.59	0.700
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban freeway TDM Q1

* File 1, Run 1, Scenario 8.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2801	0.4419	0.1507		0.0354	0.0003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.192	0.448	0.552	0.475	0.818	0.086	0.260	1.794	2.18	0.527

* # # # # # # # # # # # # # # # # # #
* Urban principle arterial TDM Q1
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Urban minor arterial TDM Q1

File 1, Run 1, Scenario 10.
#####

Reading PM Gas Carbon ZML Levels
from the external data file PMGZML.CSV

Reading PM Gas Carbon DR1 Levels
from the external data file PMGDR1.CSV

Reading PM Gas Carbon DR2 Levels
from the external data file PMGDR2.CSV

Reading PM Diesel Zero Mile Levels
from the external data file PMDZML.CSV

Reading the First PM Deterioration Rates
from the external data file PMDDR1.CSV

Reading the Second PM Deterioration Rates
from the external data file PMDDR2.CSV

Urban minor arterial mix and speeds
#615 Comment: User supplied VMT mix.

#583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2923	0.4612	0.1573		0.0240	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):
 Composite NOX : 0.181 0.431 0.533 0.457 0.758 0.068 0.207 1.335 1.87 0.441

* * * * *
 * Rural interstate Rural
 * File 1, Run 1, Scenario 13.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VTM Distribution:	0.2317	0.3652	0.1245	-----	0.0804	0.0002	0.0018	0.1920	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.202	0.464	0.571	0.491	0.873	0.123	0.373	2.540	2.59	0.857

* * * * *
 * Rural principle arterial Rural
 * File 1, Run 1, Scenario 14.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.182	0.433	0.535	0.459	0.763	0.069	0.209	1.455	1.87	0.500

* * * * *
* Rural minor arterial Rural
* File 1, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 44.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2787	0.4396	0.1499	>6000	0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.181	0.431	0.533	0.457	0.758	0.068	0.207	1.335	1.87	0.475

* * * * *
* Rural major collector Rural
* File 1, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.180	0.430	0.531	0.456	0.753	0.068	0.205	1.319	1.86	0.434

* # # # # # # # # # # # # # # # #
 * Rural minor collector Rural
 * File 1, Run 1, Scenario 17.
 * # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.179	0.428	0.530	0.454	0.748	0.067	0.202	1.305	1.85	0.436

* * * * *

* Rural local Rural

* File 1, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.179	0.428	0.530	0.454	0.748	0.067	0.202	1.305	1.85	0.459

* * * * *
* Urban interstate Rural
* File 1, Run 1, Scenario 19.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.

M581 Warning:
    The user supplied freeway average speed of 62.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2021
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 37.1 (F)
    Maximum Temperature: 53.6 (F)
    Minimum Rel. Hum.: 45.8 (%)
    Maximum Rel. Hum.: 75.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.2620 0.4135 0.1410 0.0521 0.0002 0.0021 0.1243 0.0048 1.0000
-----
Composite Emission Factors (g/ml):

```

Composite NOx :	0.199	0.460	0.565	0.487	0.858	0.110	0.334	2.283	2.47	0.663
* Urban freeway Rural										
* File 1, Run 1, Scenario 20.										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 56.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 37.1 (F)										
Maximum Temperature: 53.6 (F)										
Minimum Rel. Hum.: 45.8 (%)										
Maximum Rel. Hum.: 75.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2801	0.4419	0.1507		0.0354	0.0003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.193	0.450	0.554	0.476	0.824	0.089	0.270	1.859	2.23	0.534

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban principle arterial Rural										
* File 1, Run 1, Scenario 21.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban principle arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
M 48 Warning: there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 37.1 (F)										
Maximum Temperature: 53.6 (F)										
Minimum Rel. Hum.: 45.8 (%)										
Maximum Rel. Hum.: 75.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.178 0.427 0.530 0.453 0.676 0.065 0.196 1.259 1.71 0.430

* * * * *
* Urban minor arterial Rural
* File 1, Run 1, Scenario 22.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.175	0.422	0.524	0.448	0.693	0.064	0.193	1.244	1.76	0.408

* * * * *
 * Urban collector Rural
 * File 1, Run 1, Scenario 23.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.176	0.424	0.525	0.449	0.687	0.064	0.194	1.249	1.74	0.403

* * * * *
* Urban local Rural
* File 1, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2923	0.4612	0.1573		0.0240	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.176	0.424	0.525	0.449	0.687	0.064	0.194	1.247	1.74	0.427

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* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
 * from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
 * from the external data file PMNH3SDR.D

Calendar Year: 2021
 Month: Jan.

Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2317	0.3652	0.1245		0.0804	0.0002	0.0018	0.1920	0.0042	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.383	0.757	0.833	0.776	0.873	0.123	0.373	2.540	2.59	1.038

* * * * *
 * Rural principle arterial TDM Q1
 * File 1, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VTM Distribution:	0.2738	0.4318	0.1472	0.714	0.708	0.064	0.0022	0.0985	0.0050	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.342	0.695	0.770	0.714	0.708	0.064	0.192	1.345	1.80	0.678
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* * * * *

* Rural minor arterial TDM Q1

* File 1, Run 1, Scenario 3.

* * * * *

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* * * * *

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* * * * *

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* * * * *

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* * * * *

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* * * * *

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* * * * *

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.361 0.723 0.797 0.742 0.791 0.076 0.229 1.484 1.98 0.707

* * * * *
* Rural major collector TDM Q1
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.349	0.705	0.780	0.724	0.742	0.066	0.200	1.287	1.85	0.649

* * * * *
* Rural minor collector TDM Q1
* File 1, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.359	0.719	0.793	0.738	0.780	0.073	0.222	1.434	1.94	0.673

* * * * *
* Rural local TDM Q1
* File 1, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000
Composite Emission Factors (g/ml):	0.359	0.719	0.794	0.738	0.781	0.073	0.222	1.434	1.94	0.691

* * * * *
* Urban interstate TDM Q1
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M 96 Warning:

67.0 speed reduced to 65 mph maximum

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.383	0.757	0.833	0.776	0.874	0.123	0.373	2.540	2.59	0.905

* # # # # # # # # # # # # # # # # # #

* Urban freeway TDM Q1

* File 1, Run 1, Scenario 8.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.346	0.701	0.776	0.720	0.731	0.065	0.196	1.265	1.83	0.647

* # # # # # # # # # # # # # # # #
* Urban minor arterial TDM Q1
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.346	0.701	0.776	0.720	0.731	0.065	0.196	1.264	1.83	0.634

GVWR:	<6000	>6000	(All)
VTM Distribution:	0.3031	0.4782	0.1631
Composite Emission Factors (g/ml):			
Composite NOX :	0.349	0.705	0.780
	0.724	0.742	0.066
	0.200	1.290	0.0024
	0.0003	0.0335	0.0055
	0.0139	0.0000	1.0000

* * * * *
* Urban local TDM Q1
* File 1, Run 1, Scenario 12.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12
Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						

VMT Distribution:	0.2923	0.4612	0.1573		0.0240	0.0003	0.0023	0.0573	0.0053	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.353	0.711	0.785	0.730	0.758	0.068	0.207	1.335	1.87	0.660
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* * * * *
* Rural interstate Rural
* File 1, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2317	0.3652	0.1245		0.0804	0.0002	0.0018	0.1920	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.383	0.757	0.833	0.776	0.873	0.123	0.373	2.540	2.59	1.038

* * * * *
 * Rural principle arterial Rural
 * File 1, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

[illegible]

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2787	0.4396	0.1499	-----	0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.353	0.711	0.785	0.730	0.758	0.068	0.207	1.335	1.87	0.683
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural major collector Rural

* File 1, Run 1, Scenario 16.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2941	0.4639	0.1582	>6000	0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.352	0.709	0.784	0.728	0.753	0.068	0.205	1.319	1.86	0.654

* * * * *
 * Rural minor collector Rural
 * File 1, Run 1, Scenario 17.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:

	0.2926	0.4614	0.1574	>6000	0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
--	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.350	0.707	0.782	0.726	0.748	0.067	0.202	1.305	1.85	0.654
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural local Rural
* File 1, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.350	0.707	0.782	0.726	0.748	0.067	0.202	1.305	1.85	0.670

* * * * *
 * Urban interstate Rural
 * File 1, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.

Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.379	0.750	0.826	0.769	0.858	0.110	0.334	2.283	2.47	0.867

* #
 * Urban freeway Rural
 * File 1, Run 1, Scenario 20.
 * #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VTMT Distribution:	0.2801	0.4419	0.1507	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/mi):							
Composite NOX :	0.370	0.736	0.811	0.755	0.824	0.089	0.270 1.859 2.23 0.749

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	
* Urban principle arterial Rural							
* File 1, Run 1, Scenario 21.							
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	
* Reading PM Gas Carbon ZML Levels							
* from the external data file PMGZML.CSV							
* Reading PM Gas Carbon DR1 Levels							
* from the external data file PMGDR1.CSV							
* Reading PM Gas Carbon DR2 Levels							
* from the external data file PMGDR2.CSV							
* Reading PM Diesel Zero Mile Levels							
* from the external data file PMDZML.CSV							
* Reading the First PM Deterioration Rates							
* from the external data file PMDDR1.CSV							
* Reading the Second PM Deterioration Rates							
* from the external data file PMDDR2.CSV							
* Urban principle arterial mix and speeds							
M615 Comment:	User supplied VMT mix.						
M583 Warning:	The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.						
M 48 Warning:	there are no sales for vehicle class HDGV8b						
M 48 Warning:	there are no sales for vehicle class LDDT12						

Calendar Year:	2021						
Month:	Jan.						
Altitude:	Low						
Minimum Temperature:	37.1 (F)						
Maximum Temperature:	53.6 (F)						
Minimum Rel. Hum.:	45.8 (%)						
Maximum Rel. Hum.:	75.1 (%)						
Barometric Pressure:	30.00 (inches Hg)						
Nominal Fuel RVP:	14.0 psi						
Weathered RVP:	14.0 psi						
Fuel Sulfur Content:	30. ppm						
Exhaust I/M Program:	No						

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.345	0.700	0.775	0.719	0.693	0.064	0.193	1.244	1.76	0.631

* * * * *
* Urban collector Rural
* File 1, Run 1, Scenario 23.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

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On-road Mobile Source Emission Inventory Documentation
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Redesignation Demonstration and Maintenance Plan

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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2923	0.4612	0.1573		0.0240	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.346	0.701	0.777	0.721	0.687	0.064	0.194	1.247	1.74	0.644

```
*****  
** MOBILE6.2.03 (24-Sep-2003) *****  
** Input file: DAV21P2.IN (file 1, run 1). *****  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q2  
* File 1, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/ml):

Composite NOx : 0.164 0.370 0.439 0.388 0.756 0.119 0.358 2.326 1.98 0.744

* * * * *
* Rural principle arterial TDM Q2
* File 1, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2738	0.4318	0.1472	0.0412	0.0002	0.0022	0.0986	0.0050	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.143	0.333	0.398	0.350	0.613	0.062	0.185	1.228	1.38	0.395
* * * * *										
* Rural minor arterial TDM Q2										
* File 1, Run 1, Scenario 3.										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment :										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 50.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.1 psi										
Weathered RVP: 10.1 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.153 0.351 0.416 0.367 0.685 0.073 0.220 1.361 1.52 0.412

* * * * *
* Rural major collector TDM Q2
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.147	0.339	0.404	0.356	0.642	0.064	0.192	1.181	1.42	0.350

* # # # # # # # # # # # # # # # # # #										
* Rural minor collector TDM Q2										
* File 1, Run 1, Scenario 5.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 48.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

- * Reading PM Gas Carbon DR2 Levels
- * from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

M615 Comment: User supplied VMT mix.

ng:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.151	0.348	0.414	0.365	0.676	0.071	0.213	1.315	1.49	0.394

* #

* Urban interstate TDM Q2

* File 1, Run 1, Scenario 7.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M 96 Warning: 67.0 speed reduced to 65 mph maximum
M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.164	0.370	0.439	0.388	0.756	0.119	0.358	2.326	1.98	0.597

* # # # # # # # # # # # # # # # # # #										
* Urban freeway TDM Q2										
* File 1, Run 1, Scenario 8.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0353	0.0003	0.0022	0.0844	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.156	0.357	0.424	0.374	0.709	0.083	0.250	1.641	1.67	0.438

* # # # # # # # # # # # # # # # # # #
* Urban principle arterial TDM Q2
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* # # # # # # # # # # #
* Urban minor arterial TDM Q2

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Redesignation Demonstration and Maintenance Plan

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Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
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```
* * * * *
* Urban local TDM Q2
* File 1, Run 1, Scenario 12.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
```

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

* Urban local mix and speeds

M615 Comment :

User supplied VMT mix.

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

	Altitude:	Low
Minimum Temperature:	58.5	(F)
Maximum Temperature:	77.1	(F)
Minimum Rel. Hum.:	44.3	(%)
Maximum Rel. Hum.:	82.0	(%)

Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2923	0.4612	0.1573		0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.149	0.343	0.408	0.360	0.657	0.066	0.199	1.224	1.43	0.360
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Rural interstate Rural
 * File 1, Run 1, Scenario 13.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.164	0.370	0.439	0.388	0.756	0.119	0.358	2.326	1.98	0.744

* * * * *
 * Rural principle arterial Rural
 * File 1, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2738	0.4318	0.1472		0.0412	0.0002	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.149	0.344	0.410	0.361	0.661	0.067	0.201	1.330	1.44	0.416

* * * * *
* Rural minor arterial Rural
* File 1, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 44.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2787	0.4396	0.1499	>6000	0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.149	0.343	0.408	0.360	0.657	0.066	0.199	1.225	1.43	0.393

* * * * *
* Rural major collector Rural
* File 1, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.148	0.342	0.407	0.358	0.652	0.066	0.196	1.210	1.43	0.354

* # # # # # # # # # # # # # # # #
 * Rural minor collector Rural
 * File 1, Run 1, Scenario 17.
 * # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.147	0.341	0.406	0.357	0.647	0.065	0.194	1.197	1.42	0.356

* * * * *

* Rural local Rural

* File 1, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.147	0.341	0.406	0.357	0.647	0.065	0.194	1.197	1.42	0.378

* * * * *
* Urban interstate Rural
* File 1, Run 1, Scenario 19.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.

M581 Warning:
    The user supplied freeway average speed of 62.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2021
    Month: July
    Altitude: Low
    Minimum Temperature: 58.5 (F)
    Maximum Temperature: 77.1 (F)
    Minimum Rel. Hum.: 44.3 (%)
    Maximum Rel. Hum.: 82.0 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 10.1 psi
    Weathered RVP: 10.1 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.2620 0.4135 0.1410 0.0520 0.0002 0.0021 0.1244 0.0048 1.0000
-----
Composite Emission Factors (g/ml):

```

Composite NOx :	0.161	0.366	0.435	0.384	0.743	0.107	0.321	2.090	1.89	0.564
* Urban freeway Rural										
* File 1, Run 1, Scenario 20.										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 56.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.1 psi										
Weathered RVP: 10.1 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.2801	0.4419	0.1507	-----	0.0353	0.0003	0.0022	0.0844	0.0051	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.157	0.358	0.425	0.375	0.714	0.086	0.259	1.700	1.71	0.445

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban principle arterial Rural										
* File 1, Run 1, Scenario 21.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban principle arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
M 48 Warning: there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.1 psi										
Weathered RVP: 10.1 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.148 0.340 0.406 0.357 0.585 0.063 0.188 1.155 1.31 0.352

* * * * *
* Urban minor arterial Rural
* File 1, Run 1, Scenario 22.
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.145	0.336	0.401	0.353	0.600	0.062	0.186	1.141	1.35	0.330

* * * * *
 * Urban collector Rural
 * File 1, Run 1, Scenario 23.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.146	0.337	0.402	0.354	0.595	0.062	0.186	1.146	1.34	0.326

* * * * *
* Urban local Rural
* File 1, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector road way
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2923	0.4612	0.1573	-----	0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.146	0.337	0.402	0.354	0.595	0.062	0.186	1.144	1.34	0.349

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: DAV21P2N.IN (file 1, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q2  
* File 1, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
 * from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
 * from the external data file PMNH3SDR.D

Calendar Year: 2021
 Month: July

Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.305	0.616	0.640	0.622	0.756	0.119	0.358	2.326	1.98	0.892

* * * * *
 * Rural principle arterial TDM Q2
 * File 1, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VTM Distribution:	0.2738	0.4318	0.1472	0.571	0.613	0.062	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.277	0.566	0.589	0.571	0.613	0.062	0.185	1.228	1.38	0.560

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural minor arterial TDM Q2										
* File 1, Run 1, Scenario 3.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 50.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.1 psi										
Weathered RVP: 10.1 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.281	0.573	0.596	0.579	0.642	0.064	0.192	1.181	1.42	0.529

* * * * *
* Rural minor collector TDM Q2
* File 1, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.288	0.585	0.608	0.591	0.676	0.071	0.213	1.315	1.49	0.549

* * * * *
* Rural local TDM Q2
* File 1, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.288	0.585	0.608	0.591	0.676	0.071	0.213	1.315	1.49	0.568

* * * * *
* Urban interstate TDM Q2
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.279	0.570	0.593	0.576	0.633	0.063	0.188	1.160	1.40	0.528

* # # # # # # # # # # # # # # # #
* Urban minor arterial TDM Q2
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.279	0.570	0.593	0.576	0.633	0.063	0.188	1.160	1.40	0.514

* #												
* Urban collector TDM Q2												
* File 1, Run 1, Scenario 11.												
* #												
* Reading PM Gas Carbon ZML Levels												
* from the external data file PMGZML.CSV												
* Reading PM Gas Carbon DR1 Levels												
* from the external data file PMGDR1.CSV												
* Reading PM Gas Carbon DR2 Levels												
* from the external data file PMGDR2.CSV												
* Reading PM Diesel Zero Mile Levels												
* from the external data file PMDZML.CSV												
* Reading the First PM Deterioration Rates												
* from the external data file PMDDR1.CSV												
* Reading the Second PM Deterioration Rates												
* from the external data file PMDDR2.CSV												
* Urban collector mix and speeds												
M615 Comment:												
User supplied VMT mix.												
M583 Warning:												
The user supplied arterial average speed of 41.0												
will be used for all hours of the day. 100% of VMT												
has been assigned to the arterial/collector roadway												
type for all hours of the day and all vehicle types.												
M 48 Warning:												
there are no sales for vehicle class HDGV8b												
M 48 Warning:												
there are no sales for vehicle class LDDT12												
Calendar Year: 2021												
Month: July												
Altitude: Low												
Minimum Temperature: 58.5 (F)												
Maximum Temperature: 77.1 (F)												
Minimum Rel. Hum.: 44.3 (%)												
Maximum Rel. Hum.: 82.0 (%)												
Barometric Pressure: 30.00 (inches Hg)												
Nominal Fuel RVP: 10.1 psi												
Weathered RVP: 10.1 psi												
Fuel Sulfur Content: 30. ppm												
Exhaust I/M Program: No												
Evap I/M Program: No												
ATP Program: Yes												
Reformulated Gas: No												
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh		

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Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2923	0.4612	0.1573		0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.284	0.578	0.601	0.584	0.657	0.066	0.199	1.224	1.43	0.538

* * * * *	* * * * *	* * * * *	* * * * *							
* Rural interstate Rural										
* File 1, Run 1, Scenario 13.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural interstate mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:										
	The user supplied freeway average speed of 65.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:										
	there are no sales for vehicle class HDGV8b									
M 48 Warning:										
	there are no sales for vehicle class LDDT12									
Calendar Year:	2021									
Month:	July									
Altitude:	Low									
Minimum Temperature:	58.5 (F)									
Maximum Temperature:	77.1 (F)									
Minimum Rel. Hum.:	44.3 (%)									

Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.305	0.616	0.640	0.622	0.756	0.119	0.358	2.326	1.98	0.892

* * * * *
 * Rural principle arterial Rural
 * File 1, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

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December 18, 2009

- * Reading PM Gas Carbon ZML Levels
- * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

* Rural minor arterial mix and speeds
M615 Comment:

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.284	0.578	0.601	0.584	0.657	0.066	0.199	1.225	1.43	0.563

* * * * * # # # # # # # # # # # # # # # #

* Rural major collector Rural

* File 1, Run 1, Scenario 16.

* * * * * # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2941	0.4639	0.1582	>6000	0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.283	0.577	0.600	0.583	0.652	0.066	0.196	1.210	1.43	0.533

* * * * *

* Rural minor collector Rural

* File 1, Run 1, Scenario 17.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.282	0.575	0.598	0.581	0.647	0.065	0.194	1.197	1.42	0.534

* * * * *
* Rural local Rural
* File 1, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: -----
VMT Distribution: 0.2832 0.4466 0.1523 0.0325 0.0003 0.0022 0.0777 0.0052 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX : 0.282 0.575 0.598 0.581 0.647 0.065 0.194 1.197 1.42 0.550
-----

* * * * *
* Urban interstate Rural
* File 1, Run 1, Scenario 19.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July

Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.302	0.611	0.634	0.617	0.743	0.107	0.321	2.090	1.89	0.730

* * * * *
 * Urban freeway Rural
 * File 1, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000
 HDGV HDDV LDDT HDDV MC All Veh

VMT Distribution:	0.2801	0.4419	0.1507	0.600	0.622	0.605	0.714	0.086	0.0022	0.0844	0.0051	1.0000
-------------------	--------	--------	--------	-------	-------	-------	-------	-------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOx :	0.296	0.600	0.622	0.605	0.714	0.086	0.259	1.700	1.71	0.620
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban principle arterial Rural

* File 1, Run 1, Scenario 21.

* * * * *

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* * * * *

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* * * * *

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* * * * *

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* * * * *

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* * * * *

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.284 0.576 0.600 0.582 0.585 0.063 0.188 1.155 1.31 0.531

* * * * *
* Urban minor arterial Rural
* File 1, Run 1, Scenario 22.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.280	0.570	0.593	0.576	0.600	0.062	0.186	1.141	1.35	0.512

* * * * *
 * Urban collector Rural
 * File 1, Run 1, Scenario 23.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.281	0.571	0.595	0.577	0.595	0.062	0.186	1.146	1.34	0.510

* * * * *
* Urban local Rural
* File 1, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2923	0.4612	0.1573		0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.281	0.571	0.595	0.577	0.595	0.062	0.186	1.144	1.34	0.526

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: DAV2LP3.IN (file 1, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q3  
* File 1, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.147	0.326	0.387	0.342	0.785	0.119	0.358	2.326	1.66	0.719
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural principle arterial TDM Q3										
* File 1, Run 1, Scenario 2.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural other principle arterial mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 35.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year:	2021									
Month:	July									
Altitude:	Low									
Minimum Temperature:	68.2 (F)									
Maximum Temperature:	83.1 (F)									
Minimum Rel. Hum.:	56.8 (%)									
Maximum Rel. Hum.:	86.8 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	7.8 psi									
Weathered RVP:	7.7 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program:	Yes									
Evap I/M Program:	Yes									
ATP Program:	Yes									
Reformulated Gas:	No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2738	0.4318	0.1472	0.0412	0.0002	0.0022	0.0986	0.0050	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.133	0.293	0.350	0.307	0.637	0.062	0.185	1.228	1.16	0.368
* # # # # # # # # # # # # # # # # # #										
* Rural minor arterial TDM Q3										
* File 1, Run 1, Scenario 3.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment :										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 50.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.139 0.308 0.367 0.323 0.711 0.073 0.220 1.361 1.27 0.382

* * * * *
* Rural major collector TDM Q3
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.135	0.298	0.356	0.313	0.667	0.064	0.192	1.181	1.19	0.319

* # # # # # # # # # # # # # # # # # #										
* Rural minor collector TDM Q3										
* File 1, Run 1, Scenario 5.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 48.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

ng:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDTL2

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.138	0.306	0.365	0.321	0.701	0.071	0.213	1.315	1.25	0.363

* * * * *
* Urban interstate TDM Q3
* File 1, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M 96 Warning:

67.0 speed reduced to 65 mph maximum

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

GVWR:	0.2620	<6000	>6000	(All)	0.0520	0.0002	0.0021	0.1244	0.0048	1.0000
-------	--------	-------	-------	-------	--------	--------	--------	--------	--------	--------

VMT Distribution: 0.2620 0.4135 0.1410

Composite Emission Factors (g/mi):

Composite NOX :	0.147	0.326	0.387	0.342	0.785	0.119	0.358	2.326	1.66	0.567
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban freeway TDM Q3

* File 1, Run 1, Scenario 8.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 55.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0353	0.0003	0.0022	0.0844	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.142	0.314	0.374	0.329	0.735	0.083	0.250	1.641	1.40	0.407

* # # # # # # # # # # # # # # # # # #
 * Urban principle arterial TDM Q3
 * File 1, Run 1, Scenario 9.
 * # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

[illegible]

File 1, Run 1, Scenario 10.

```

#####
Reading PM Gas Carbon ZML Levels
from the external data file PMGZML.CSV

Reading PM Gas Carbon DR1 Levels
from the external data file PMGDR1.CSV

Reading PM Gas Carbon DR2 Levels
from the external data file PMGDR2.CSV

Reading PM Diesel Zero Mile Levels
from the external data file PMDZML.CSV

Reading the First PM Deterioration Rates
from the external data file PMDDR1.CSV

Reading the Second PM Deterioration Rates
from the external data file PMDDR2.CSV

Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: ----->6000 <6000 >6000
VMT Distribution: 0.3006 0.4743 0.1617
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3006	0.4743	0.1617	>6000	0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2923	0.4612	0.1573		0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):
 Composite NOX : 0.136 0.301 0.359 0.316 0.681 0.066 0.199 1.224 1.20 0.329

* * * * *
 * Rural interstate Rural
 * File 1, Run 1, Scenario 13.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.147	0.326	0.387	0.342	0.785	0.119	0.358	2.326	1.66	0.719

* * * * *
 * Rural principle arterial Rural
 * File 1, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2738	0.4318	0.1472		0.0412	0.0002	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.137	0.303	0.361	0.317	0.686	0.067	0.201	1.330	1.21	0.387

* * * * *
* Rural minor arterial Rural
* File 1, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 44.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2787	0.4396	0.1499	>6000	0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.136	0.301	0.359	0.316	0.681	0.066	0.199	1.225	1.20	0.363

* * * * * * * * * * * * * * * * * * * *

* Rural major collector Rural

* File 1, Run 1, Scenario 16.

* * * * * * * * * * * * * * * * * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.136	0.300	0.358	0.315	0.677	0.066	0.196	1.210	1.20	0.323

* # # # # # # # # # # # # # # # # #
 * Rural minor collector Rural
 * File 1, Run 1, Scenario 17.
 * # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.135	0.299	0.357	0.314	0.672	0.065	0.194	1.197	1.19	0.325

* * * * *

* Rural local Rural

* File 1, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.135	0.299	0.357	0.314	0.672	0.065	0.194	1.197	1.19	0.348

* # # # # # # # # # # # # # # # # # # #
* Urban interstate Rural
* File 1, Run 1, Scenario 19.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.

M581 Warning:
    The user supplied freeway average speed of 62.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2021
    Month: July
    Altitude: Low
    Minimum Temperature: 68.2 (F)
    Maximum Temperature: 83.1 (F)
    Minimum Rel. Hum.: 56.8 (%)
    Maximum Rel. Hum.: 86.8 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 7.8 psi
    Weathered RVP: 7.7 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.2620 0.4135 0.1410 0.0520 0.0002 0.0021 0.1244 0.0048 1.0000
-----
Composite Emission Factors (g/ml):

```

Composite NOx :	0.146	0.323	0.383	0.338	0.771	0.107	0.321	2.090	1.59	0.534

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban freeway Rural										
* File 1, Run 1, Scenario 20.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 56.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
VMT Distribution:	0.2801	0.4419	0.1507	-----	0.0353	0.0003	0.0022	0.0844	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.143	0.315	0.375	0.331	0.741	0.086	0.259	1.700	1.43	0.413

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban principle arterial Rural										
* File 1, Run 1, Scenario 21.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban principle arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
M 48 Warning: there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.139 0.300 0.358 0.315 0.607 0.063 0.188 1.155 1.10 0.322

* * * * *
* Urban minor arterial Rural
* File 1, Run 1, Scenario 22.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.135	0.296	0.353	0.310	0.622	0.062	0.186	1.141	1.13	0.299

* * * * *
 * Urban collector Rural
 * File 1, Run 1, Scenario 23.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

MS83 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector road way
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2923	0.4612	0.1573		0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.136	0.297	0.355	0.311	0.617	0.062	0.186	1.144	1.12	0.319

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: DAV21P3N.IN (file 1, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q3  
* File 1, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
 * from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
 * from the external data file PMNH3SDR.D

Calendar Year: 2021
 Month: July

Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.272	0.541	0.564	0.547	0.785	0.119	0.358	2.326	1.66	0.848

* * * * *
 * Rural principle arterial TDM Q3
 * File 1, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000
 HDGV HDDV LDDT HDDV MC All Veh

VMT Distribution:		0.2738	0.4318	0.1472	-----	-----	-----	-----	-----	-----
Composite Emission Factors (g/mi):										
Composite NOX :		0.253	0.496	0.518	0.502	0.637	0.062	0.185	1.228	1.16

* * * * *										
* Rural minor arterial TDM Q3										
* File 1, Run 1, Scenario 3.										
* * * * *										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PWDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 50.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										

Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.261 0.516 0.538 0.522 0.711 0.073 0.220 1.361 1.27 0.533

* * * * *
* Rural major collector TDM Q3
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.255	0.503	0.525	0.509	0.667	0.064	0.192	1.181	1.19	0.476

* * * * *
* Rural minor collector TDM Q3
* File 1, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.260	0.514	0.535	0.519	0.701	0.071	0.213	1.315	1.25	0.496

* * * * *
* Rural local TDM Q3
* File 1, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000
Composite Emission Factors (g/ml):	0.260	0.514	0.536	0.519	0.701	0.071	0.213	1.315	1.25	0.516

* * * * *
* Urban interstate TDM Q3
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M 96 Warning:

67.0 speed reduced to 65 mph maximum

M581 Warning:

The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.272	0.541	0.564	0.547	0.785	0.119	0.358	2.326	1.66	0.713

* # # # # # # # # # # # # # # # # # #

* Urban freeway TDM Q3

* File 1, Run 1, Scenario 8.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.254	0.500	0.522	0.506	0.657	0.063	0.188	1.160	1.18	0.476

* # # # # # # # # # # # # # # # #
* Urban minor arterial TDM Q3
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.254	0.500	0.522	0.506	0.657	0.063	0.188	1.160	1.18	0.461

* #												
* Urban collector TDM Q3												
* File 1, Run 1, Scenario 11.												
* #												
* Reading PM Gas Carbon ZML Levels												
* from the external data file PMGZML.CSV												
* Reading PM Gas Carbon DR1 Levels												
* from the external data file PMGDR1.CSV												
* Reading PM Gas Carbon DR2 Levels												
* from the external data file PMGDR2.CSV												
* Reading PM Diesel Zero Mile Levels												
* from the external data file PMDZML.CSV												
* Reading the First PM Deterioration Rates												
* from the external data file PMDDR1.CSV												
* Reading the Second PM Deterioration Rates												
* from the external data file PMDDR2.CSV												
* Urban collector mix and speeds												
M615 Comment:												
User supplied VMT mix.												
M583 Warning:												
The user supplied arterial average speed of 41.0												
will be used for all hours of the day. 100% of VMT												
has been assigned to the arterial/collector roadway												
type for all hours of the day and all vehicle types.												
M 48 Warning:												
there are no sales for vehicle class HDGV8b												
M 48 Warning:												
there are no sales for vehicle class LDDT12												
Calendar Year: 2021												
Month: July												
Altitude: Low												
Minimum Temperature: 68.2 (F)												
Maximum Temperature: 83.1 (F)												
Minimum Rel. Hum.: 56.8 (%)												
Maximum Rel. Hum.: 86.8 (%)												
Barometric Pressure: 30.00 (inches Hg)												
Nominal Fuel RVP: 7.8 psi												
Weathered RVP: 7.7 psi												
Fuel Sulfur Content: 30. ppm												
Exhaust I/M Program: No												
Evap I/M Program: No												
ATP Program: Yes												
Reformulated Gas: No												
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh		

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Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2923	0.4612	0.1573		0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.257	0.508	0.529	0.513	0.681	0.066	0.199	1.224	1.20	0.486

* * * * *	* * * * *	* * * * *	* * * * *							
* Rural interstate Rural										
* File 1, Run 1, Scenario 13.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural interstate mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year:	2021									
Month:	July									
Altitude:	Low									
Minimum Temperature:	68.2 (F)									
Maximum Temperature:	83.1 (F)									
Minimum Rel. Hum.:	56.8 (%)									

Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.272	0.541	0.564	0.547	0.785	0.119	0.358	2.326	1.66	0.848
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* * * * *
 * Rural principle arterial Rural
 * File 1, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2738	0.4318	0.1472		0.0412	0.0002	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.257	0.509	0.531	0.514	0.686	0.067	0.201	1.330	1.21	0.534

* * * * *	* * * * *	* * * * *	* * * * *							
* Rural minor arterial Rural										
* File 1, Run 1, Scenario 15.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway									

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.257	0.508	0.529	0.513	0.681	0.066	0.199	1.225	1.20	0.513

* * * * *
* Rural major collector Rural
* File 1, Run 1, Scenario 16.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021		Month: July		Altitude: Low							
Minimum Temperature: 68.2 (F)		Maximum Temperature: 83.1 (F)		Minimum Rel. Hum.: 56.8 (%)							
Maximum Rel. Hum.: 86.8 (%)		Barometric Pressure: 30.00 (inches Hg)		Nominal Fuel RVP: 7.8 psi							
Weathered RVP: 7.7 psi		Fuel Sulfur Content: 30. ppm		Exhaust I/M Program: No							
Evap I/M Program: No		ATP Program: Yes		Reformulated Gas: No							
Vehicle Type:		LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:		0.2941	0.4639	0.1582	0.0223	0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):											
Composite NOX :		0.256	0.506	0.528	0.512	0.677	0.066	0.196	1.210	1.20	0.480

* * * * *

* Rural minor collector Rural

* File 1, Run 1, Scenario 17.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.256	0.505	0.526	0.510	0.672	0.065	0.194	1.197	1.19	0.481

* * * * *
* Rural local Rural
* File 1, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: -----
VMT Distribution: 0.2832 0.4466 0.1523 0.0325 0.0003 0.0022 0.0777 0.0052 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX : 0.256 0.505 0.527 0.510 0.672 0.065 0.194 1.197 1.19 0.499
-----

* * * * *
* Urban interstate Rural
* File 1, Run 1, Scenario 19.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 62.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.270	0.536	0.559	0.542	0.771	0.107	0.321	2.090	1.59	0.680

* #
 * Urban freeway Rural
 * File 1, Run 1, Scenario 20.
 * #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000
 HDGV HDDV LDDT HDDV MC All Veh

VTMT Distribution:	0.2801	0.4419	0.1507	0.0353	0.0003	0.0022	0.0844	0.0051	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.265	0.526	0.548	0.532	0.741	0.086	0.259	1.700	1.43	0.567
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* * * * *

* Urban principle arterial Rural

* File 1, Run 1, Scenario 21.

* * * * *

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* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* * * * *

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* * * * *

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* * * * *

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* * * * *

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* * * * *

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.262	0.507	0.530	0.513	0.607	0.063	0.188	1.155	1.10	0.481

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* Urban minor arterial Rural										
* File 1, Run 1, Scenario 22.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year:	2021									
Month:	July									
Altitude:	Low									
Minimum Temperature:	68.2 (F)									
Maximum Temperature:	83.1 (F)									
Minimum Rel. Hum.:	56.8 (%)									
Maximum Rel. Hum.:	86.8 (%)									

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.256	0.501	0.523	0.506	0.622	0.062	0.186	1.141	1.13	0.460

* * * * *
 * Urban collector Rural
 * File 1, Run 1, Scenario 23.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.258	0.502	0.525	0.508	0.617	0.062	0.186	1.146	1.12	0.457

* * * * *
* Urban local Rural
* File 1, Run 1, Scenario 24.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2923	0.4612	0.1573		0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.258	0.502	0.525	0.508	0.617	0.062	0.186	1.144	1.12	0.476

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
 data file: TECH12.D

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
 * from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
 * from the external data file PMNH3SDR.D

Calendar Year: 2022
 Month: Jan.

Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2317	0.3652	0.1245	-----	0.0804	0.0002	0.0018	0.1920	0.0042	1.0000

Composite Emission Factors (g/ml):										

Composite NOx : 0.179 0.412 0.511 0.437 0.746 0.109 0.344 2.221 2.43 0.753

* * * * *
* Rural principle arterial TDM Q4
* File 1, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2738	0.4318	0.1472	0.0413	0.0002	0.0985	0.0022	0.0050	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.153	0.370	0.463	0.394	0.605	0.056	0.178	1.196	1.69	0.421
* # # # # # # # # # # # # # # # # # #										
* Rural minor arterial TDM Q4										
* File 1, Run 1, Scenario 3.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
M 48 Warning: there are no sales for vehicle class LDDT12										
Calendar Year: 2022										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.166	0.389	0.485	0.414	0.675	0.067	0.212	1.289	1.86	0.438
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* * * * *
* Rural major collector TDM Q4
* File 1, Run 1, Scenario 4.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.158	0.377	0.470	0.401	0.633	0.059	0.185	1.121	1.74	0.380

* * * * *
* Rural minor collector TDM Q4
* File 1, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

ng:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.164	0.387	0.482	0.411	0.666	0.065	0.205	1.247	1.82	0.421

* * * * *
* Urban interstate TDM Q4
* File 1, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 67.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.179	0.412	0.511	0.437	0.746	0.109	0.344	2.221	2.43	0.617
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* #

* Urban freeway TDM Q4

* File 1, Run 1, Scenario 8.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

User supplied VMT mix.

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

there are no sales for vehicle class LDDT12

Altitude: Low

Maximum Temperature: 55.9 (F)

Maximum Rel. Hum.: 85.1 (%)

Nominal Fuel RVP:	14.0 psi
-------------------	----------

Fuel Sulfur Content: 30 ppm

Exhaust T/M Program:	Yes
----------------------	-----

Evap	I/M	Program:	Yes

Reformulated Gas: No

GVWR:

Distribution:

[illegible]

Composite NOx :

—

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ng PM Gas Carb

Appendix C.3
December 18, 2009

[illegible]

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

1840
Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

On-road Mobile Source Emission Inventory Documentation 1842
Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Appendix C.3
Redesignation Demonstration and Maintenance Plan December 18, 2009

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	>6000								
VMT Distribution:	0.2923	0.4612	0.1573		0.0240	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.161	0.381	0.475	0.405	0.647	0.061	0.191	1.162	1.75	0.389
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* * * * *
* Rural interstate Rural
* File 1, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 65.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDLV	LDLT	HDDV	MC	All Veh
VMT Distribution:	0.2317	0.3652	0.1245	---	0.0804	0.0002	0.0018	0.1920	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.179	0.412	0.511	0.437	0.746	0.109	0.344	2.221	2.43	0.753

```

* * * * *
* Rural principle arterial Rural
* File 1, Run 1, Scenario 14.
* * * * *

```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDRI1.CSV
```

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.csv
```

* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

```
M 48 Warning:
      there are no sales for vehicle class HDGV8b
```

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.161	0.382	0.477	0.406	0.652	0.061	0.193	1.291	1.76	0.443

* * * * *
* Rural minor arterial Rural
* File 1, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 44.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2787	0.4396	0.1499	>6000	0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.161	0.381	0.475	0.405	0.647	0.061	0.191	1.162	1.75	0.418

* * * * *
* Rural major collector Rural
* File 1, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.160	0.380	0.474	0.404	0.643	0.060	0.189	1.148	1.75	0.384

* # # # # # # # # # # # # # # # # # # #
 * Rural minor collector Rural
 * File 1, Run 1, Scenario 17.
 * # # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.159	0.378	0.472	0.402	0.638	0.059	0.187	1.136	1.74	0.385

* * * * *
* Rural local Rural
* File 1, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

Composite NOx :	0.177	0.407	0.506	0.432	0.732	0.098	0.308	2.001	2.32	0.585
* Urban freeway Rural										
* File 1, Run 1, Scenario 20.										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban freeway mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 56.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2022										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
VMT Distribution:	0.2801	0.4419	0.1507	-----	0.0354	0.0003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.171	0.398	0.495	0.423	0.704	0.079	0.249	1.637	2.09	0.473

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban principle arterial Rural										
* File 1, Run 1, Scenario 21.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban principle arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
M 48 Warning: there are no sales for vehicle class LDDT12										
Calendar Year: 2022										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.157 0.377 0.472 0.401 0.577 0.057 0.181 1.097 1.61 0.379

* * * * *
* Urban minor arterial Rural
* File 1, Run 1, Scenario 22.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.155	0.373	0.466	0.396	0.591	0.057	0.179	1.084	1.65	0.360

* * * * *
 * Urban collector Rural
 * File 1, Run 1, Scenario 23.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.156	0.374	0.468	0.397	0.586	0.057	0.179	1.088	1.64	0.356

* * * * *
* Urban local Rural
* File 1, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2923	0.4612	0.1573		0.0240	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.156	0.374	0.468	0.397	0.586	0.057	0.179	1.086	1.64	0.377

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: DAV21P4N.IN (file 1, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q4
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M 96 Warning: 68.0 speed reduced to 65 mph maximum

M581 Warning: The user supplied freeway average speed of 65.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
 * from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
 * from the external data file PMNH3SDR.D

Calendar Year: 2022
 Month: Jan.

Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2317	0.3652	0.1245		0.0804	0.0002	0.0018	0.1920	0.0042	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.351	0.688	0.759	0.706	0.746	0.109	0.344	2.221	2.43	0.924

* * * * *
 * Rural principle arterial TDM Q4
 * File 1, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

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Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.330 0.656 0.725 0.673 0.675 0.067 0.212 1.289 1.86 0.637

* * * * *
* Rural major collector TDM Q4
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.319	0.639	0.707	0.656	0.633	0.059	0.185	1.121	1.74	0.586

* * * * *
* Rural minor collector TDM Q4
* File 1, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VT Distribution:	0.2926	0.4614	0.1574	0.0238	0.0003	0.0023	0.0569	0.0053	1.0000	
Composite Emission Factors (g/ml):										
Composite NOX :	0.328	0.652	0.721	0.670	0.666	0.065	0.205	1.247	1.82	0.607

* * * * *
* Rural local TDM Q4
* File 1, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000
Composite Emission Factors (g/ml):	0.328	0.652	0.721	0.670	0.666	0.065	0.205	1.247	1.82	0.622

* * * * *
* Urban interstate TDM Q4
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2801	0.4419	0.1507		0.0354	0.0003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.337	0.666	0.736	0.684	0.698	0.076	0.240	1.581	2.05	0.669

* # # # # # # # # # # # # # # # #
* Urban principle arterial TDM Q4
* File 1, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.316	0.635	0.704	0.653	0.624	0.058	0.181	1.101	1.72	0.584

* # # # # # # # # # # # # # # # #
* Urban minor arterial TDM Q4
* File 1, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.316	0.635	0.704	0.653	0.624	0.058	0.181	1.101	1.72	0.573

* #												
* Urban collector TDM Q4												
* File 1, Run 1, Scenario 11.												
* #												
* Reading PM Gas Carbon ZML Levels												
* from the external data file PMGZML.CSV												
* Reading PM Gas Carbon DR1 Levels												
* from the external data file PMGDR1.CSV												
* Reading PM Gas Carbon DR2 Levels												
* from the external data file PMGDR2.CSV												
* Reading PM Diesel Zero Mile Levels												
* from the external data file PMDZML.CSV												
* Reading the First PM Deterioration Rates												
* from the external data file PMDDR1.CSV												
* Reading the Second PM Deterioration Rates												
* from the external data file PMDDR2.CSV												
* Urban collector mix and speeds												
M615 Comment:												
User supplied VMT mix.												
M583 Warning:												
The user supplied arterial average speed of 41.0												
will be used for all hours of the day. 100% of VMT												
has been assigned to the arterial/collector roadway												
type for all hours of the day and all vehicle types.												
M 48 Warning:												
there are no sales for vehicle class HDGV8b												
M 48 Warning:												
there are no sales for vehicle class LDDT12												
Calendar Year: 2022												
Month: Jan.												
Altitude: Low												
Minimum Temperature: 44.0 (F)												
Maximum Temperature: 55.9 (F)												
Minimum Rel. Hum.: 61.6 (%)												
Maximum Rel. Hum.: 85.1 (%)												
Barometric Pressure: 30.00 (inches Hg)												
Nominal Fuel RVP: 14.0 psi												
Weathered RVP: 14.0 psi												
Fuel Sulfur Content: 30. ppm												
Exhaust I/M Program: No												
Evap I/M Program: No												
ATP Program: Yes												
Reformulated Gas: No												
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh		

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Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							

VMT Distribution:	0.2923	0.4612	0.1573		0.0240	0.0003	0.0023	0.0573	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

 Composite Emission Factors (g/mi):
 Composite NOX : 0.323 0.644 0.713 0.662 0.647 0.061 0.191 1.162 1.75 0.596

* * * * *
 * Rural interstate Rural
 * File 1, Run 1, Scenario 13.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 65.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2317	0.3652	0.1245		0.0804	0.0002	0.0018	0.1920	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.351	0.688	0.759	0.706	0.746	0.109	0.344	2.221	2.43	0.924

* * * * *
 * Rural principle arterial Rural
 * File 1, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.324	0.646	0.715	0.664	0.652	0.061	0.193	1.291	1.76	0.636

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.2787	0.4396	0.1499	0.0366	0.0003	0.0022	0.0876	0.0051	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/ml):

Composite NOX :	0.323	0.644	0.713	0.662	0.647	0.061	0.191	1.162	1.75	0.615
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural major collector Rural

* File 1, Run 1, Scenario 16.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2941	0.4639	0.1582	>6000	0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.321	0.643	0.711	0.660	0.643	0.060	0.189	1.148	1.75	0.591

* * * * *

* Rural minor collector Rural

* File 1, Run 1, Scenario 17.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:

	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.320	0.641	0.709	0.658	0.638	0.059	0.187	1.136	1.74	0.590
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural local Rural
* File 1, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 >6000 -----
VMT Distribution: 0.2832 0.4466 0.1523 0.0325 0.0003 0.0022 0.0777 0.0052 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX : 0.320 0.641 0.709 0.658 0.638 0.059 0.187 1.136 1.74 0.603
-----

* * * * *
* Urban interstate Rural
* File 1, Run 1, Scenario 19.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.347	0.682	0.752	0.699	0.732	0.098	0.308	2.001	2.32	0.777

* #
 * Urban freeway Rural
 * File 1, Run 1, Scenario 20.
 * #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.2801	0.4419	0.669	0.738	0.686	0.704	0.079	0.003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/mi):												
Composite NOX :	0.339	0.669	0.738	0.738	0.686	0.704	0.079	0.003	0.0022	0.0843	2.09	0.676

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban principle arterial Rural												
* File 1, Run 1, Scenario 21.												
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels												
* from the external data file PMGZML.CSV												
* Reading PM Gas Carbon DR1 Levels												
* from the external data file PMGDR1.CSV												
* Reading PM Gas Carbon DR2 Levels												
* from the external data file PMGDR2.CSV												
* Reading PM Diesel Zero Mile Levels												
* from the external data file PWDZML.CSV												
* Reading the First PM Deterioration Rates												
* from the external data file PMDDR1.CSV												
* Reading the Second PM Deterioration Rates												
* from the external data file PMDDR2.CSV												
* Urban principle arterial mix and speeds												
M615 Comment: User supplied VMT mix.												
M583 Warning:												
The user supplied arterial average speed of 29.0												
will be used for all hours of the day. 100% of VMT												
has been assigned to the arterial/collector roadway												
type for all hours of the day and all vehicle types.												
M 48 Warning:												
there are no sales for vehicle class HDGV8b												
M 48 Warning:												
there are no sales for vehicle class LDDT12												
Calendar Year: 2022												
Month: Jan.												
Altitude: Low												
Minimum Temperature: 44.0 (F)												
Maximum Temperature: 55.9 (F)												
Minimum Rel. Hum.: 61.6 (%)												
Maximum Rel. Hum.: 85.1 (%)												
Barometric Pressure: 30.00 (inches Hg)												
Nominal Fuel RVP: 14.0 psi												
Weathered RVP: 14.0 psi												
Fuel Sulfur Content: 30. ppm												
Exhaust I/M Program: No												

Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.319	0.640	0.711	0.658	0.577	0.057	0.181	1.097	1.61	0.586
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Urban minor arterial Rural
* File 1, Run 1, Scenario 22.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.315	0.634	0.703	0.651	0.591	0.057	0.179	1.084	1.65	0.570

* * * * *
* Urban collector Rural
* File 1, Run 1, Scenario 23.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.316	0.635	0.705	0.653	0.586	0.057	0.179	1.088	1.64	0.568

* * * * *
* Urban local Rural
* File 1, Run 1, Scenario 24.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2923	0.4612	0.1573		0.0240	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.316	0.635	0.705	0.653	0.586	0.057	0.179	1.086	1.64	0.581

GUI08P1.TXT

* MOBIL6.2.03 (24-Sep-2003) *
* Input file: GUI08P1.IN (file 1, run 1). *

* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN

M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	1.00	MYR sum not = 1. (will normalize)
M 49 Warning:	1.00	MYR sum not = 1. (will normalize)
M 49 Warning:	0.996	MYR sum not = 1. (will normalize)
M 49 Warning:	0.996	MYR sum not = 1. (will normalize)
M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	0.999	MYR sum not = 1. (will normalize)
M 49 Warning:	0.998	MYR sum not = 1. (will normalize)
M 49 Warning:	1.00	MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q1
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

```

* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D
M 48 Warning:
there are no sales for vehicle class HDGV8b

* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D
M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT LDGT HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000 (All)
VMT Distribution: 0.3148 0.3030 0.1033 0.0799 0.0003 0.0016 0.1925 0.0046 1.0000
-----
Composite Emission Factors (g/ml):

```


Composite NOx :	0.821	1.396	1.325	1.378	3.429	1.111	1.207	11.185	2.39	3.259
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* * * * *
* Rural principle arterial TDM Q1
* File 1, Run 1, Scenario 2.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural other principle arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.3721	0.3583	0.1221		0.0410	0.0004	0.0019	0.0988	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.778	1.336	1.269	1.319	3.142	0.791	0.858	8.188	1.92	1.873

* # # # # # # # # # # # # # # # # # # #
* Rural minor arterial TDM Q1
* File 1, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3787	0.3648	0.1244	0.0364	0.0004	0.0019	0.0879	0.0055	1.0000	

Composite Emission Factors (g/mi):

Composite NOX :	0.765	1.319	1.252	1.302	3.054	0.744	0.806	6.929	1.87	1.659
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural major collector TDM Q1
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3997	0.3849	0.1312		0.0223	0.0004	0.0020	0.0537	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.774	1.332	1.264	1.315	3.119	0.776	0.841	7.237	1.90	1.459

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural minor collector TDM Q1	#	#	#	#	#	#	#	#	#	#
* File 1, Run 1, Scenario 5.	#	#	#	#	#	#	#	#	#	#
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 47.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0236	0.0004	0.0020	0.0569	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.778	1.336	1.269	1.319	3.141	0.791	0.858	7.371	1.92	1.493

* * * * *
* Rural local TDM Q1
* File 1, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3848	0.3706	0.1263		0.0324	0.0004	0.0020	0.0779	0.0056	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.765	1.319	1.253	1.302	3.053	0.744	0.806	6.927	1.87	1.592

* * * * *
* Urban interstate TDM Q1
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3564	0.3431	0.1170		0.0516	0.0004	0.0018	0.1245	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.804	1.372	1.302	1.354	3.317	0.945	1.026	9.639	2.19	2.294

* # # # # # # # # # # # # # # # #
* Urban freeway TDM Q1
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.3807 0.3667 0.1249 0.0351 0.0004 0.0019 0.0847 0.0055 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX : 0.790 1.354 1.285 1.336 3.230 0.857 0.930 8.810 2.03 1.831
-----

* * * * *
* Urban principle arterial TDM Q1
* File 1, Run 1, Scenario 9.

```



```

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 39.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 37.1 (F)
    Maximum Temperature: 53.6 (F)
    Minimum Rel. Hum.: 45.8 (%)
    Maximum Rel. Hum.: 75.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT34 LDGT34 LDGT34 LDGT34 LDGT34 LDGT34
GVWR: <6000 >6000 >6000 >6000 >6000 >6000 >6000 >6000 >6000 >6000
VMT Distribution: 0.3978 0.3828 0.1305 0.1305 0.0237 0.0044 0.0020 0.0571 0.0057 1.0000
-----

```

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4087	0.3936	0.1342	0.0161	0.0004	0.0021	0.0390	0.0059	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.748	1.296	1.231	1.280	2.920	0.707	0.766	6.584	1.82	1.297

* * * * *
 * Urban collector TDM Q1
 * File 1, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 37.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)

Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3974	0.3827	0.1305		0.0238	0.0004	0.0020	0.0575	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.744	1.292	1.228	1.276	2.851	0.700	0.759	6.518	1.79	1.405

GUI08P1N.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: GUI08P1N.IN (file 21, run 1).
*****
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q1
* File 21, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3030	0.1033		0.0799	0.0003	0.0016	0.1925	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.930	1.548	1.486	1.532	3.429	1.111	1.207	11.185	2.39	3.356

* # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q1
* File 21, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0410	0.0004	0.0019	0.0988	0.0054	1.0000

Composite Emission Factors (g/ml):
Composite NOX : 0.884 1.487 1.429 1.472 3.142 0.791 0.858 8.188 1.92 1.986


```

* * * * *
* Rural minor arterial TDM Q1
* File 21, Run 1, Scenario 3.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 37.1 (F)
    Maximum Temperature: 53.6 (F)
    Minimum Rel. Hum.: 45.8 (%)
    Maximum Rel. Hum.: 75.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV HDDV LDDT HDDV MC All Veh

```

GVWR:	<6000	>6000	(All)						
VT Distribution:	0.3787	0.3648	0.1244						

Composite Emission Factors (g/ml):									
Composite NOX :	0.871	1.469	1.413	1.455	3.054	0.744	0.0019	0.0879	1.87

* # # # # # # # # # # # # # # # #									
* Rural major collector TDM Q1									
* File 21, Run 1, Scenario 4.									
* # # # # # # # # # # # # # # # #									
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural major collector mix and speeds									
M615 Comment:									
	User supplied VMT mix.								
M583 Warning:									
	The user supplied arterial average speed of 46.0								
	will be used for all hours of the day. 100% of VMT								
	has been assigned to the arterial/collector roadway								
	type for all hours of the day and all vehicle types.								
M 48 Warning:									
	there are no sales for vehicle class HDGV8b								
M111 Warning:									
	The input dIesel sulfur level of 43.0 ppm exceeds								
	the 2007 HDD Rule diesel sulfur limit of 15 ppm.								
Calendar Year: 2008									
	Month: Jan.								
	Altitude: Low								
	Minimum Temperature: 37.1 (F)								
	Maximum Temperature: 53.6 (F)								
	Minimum Rel. Hum.: 45.8 (%)								
	Maximum Rel. Hum.: 75.1 (%)								
	Barometric Pressure: 30.00 (inches Hg)								
	Nominal Fuel RVP: 14.0 psi								
	Weathered RVP: 14.0 psi								
	Fuel Sulfur Content: 30. ppm								

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312	0.0223	0.0004	0.0020	0.0537	0.0058	1.0000	

Composite Emission Factors (g/mi):
Composite NOX : 0.881 1.482 1.425 1.468 3.119 0.776 0.841 7.237 1.90 1.581

* * * * *
* Rural minor collector TDM Q1
* File 21, Run 1, Scenario 5.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.
Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0236	0.0004	0.0020	0.0569	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.884	1.487	1.429	1.472	3.141	0.791	0.858	7.371	1.92	1.614

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural local TDM Q1	#	#	#	#	#	#	#	#	#	#
* File 21, Run 1, Scenario 6.	#	#	#	#	#	#	#	#	#	#
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M111 Warning:										

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263	0.0324	0.0004	0.0020	0.0779	0.0056		1.0000

Composite Emission Factors (g/ml):	0.871	1.469	1.413	1.455	3.053	0.744	0.806	6.927	1.87	1.709

* * * * *
* Urban interstate TDM Q1
* File 21, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0516	0.0004	0.0018	0.1245	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.911	1.523	1.462	1.508	3.317	0.945	1.026	9.639	2.19	2.403

* * * * *
 * Urban freeway TDM Q1
 * File 21, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3807	0.3667	0.1249		0.0351	0.0004	0.0019	0.0847	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.898	1.505	1.445	1.489	3.230	0.857	0.930	8.810	2.03	1.947

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q1

* File 21, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)	(All)							
VMT Distribution:	0.3978	0.3828	0.1305	0.0237	0.0004	0.0020	0.0571	0.0057	1.0000		
Composite Emission Factors (g/mi):											
Composite NOX :	0.858	1.453	1.398	1.439	2.962	0.714	0.773	6.644	1.84	1.542	

* * * * *

* Urban minor arterial TDM Q1

* File 21, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.4087	0.3936	0.1342		0.0161	0.0004	0.0021	0.0390	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.853	1.446	1.393	1.433	2.920	0.707	0.766	6.584	1.82	1.421

* #
* Urban collector TDM Q1
* File 21, Run 1, Scenario 11.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
VMT Distribution:	0.4121	0.3969	0.1353	-----	0.0138	0.0004	0.0021	0.0334	0.0060	1.0000
Composite Emission Factors (g/mi.):										
Composite NOX :	0.853	1.446	1.393	1.433	2.919	0.707	0.766	6.591	1.82	1.387
* * * * *	# # # # #	# # # # #	# # # # #	---	---	---	---	---	---	---
* Urban local TDM Q1	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* File 21, Run 1, Scenario 12.	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* * * * *	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* Reading PM Gas Carbon ZML Levels	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* from the external data file PMGZML.CSV	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* Reading PM Gas Carbon DR1 Levels	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* from the external data file PMGDR1.CSV	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* Reading PM Gas Carbon DR2 Levels	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* from the external data file PMGDR2.CSV	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* Reading PM Diesel Zero Mile Levels	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* from the external data file PMDZML.CSV	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* Reading the First PM Deterioration Rates	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* from the external data file PMDDR1.CSV	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* Reading the Second PM Deterioration Rates	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* from the external data file PMDDR2.CSV	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* Urban local mix and speeds	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
M615 Comment:	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
User supplied VMT mix.										
M583 Warning:	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
there are no sales for vehicle class HDGV8b										
M111 Warning:	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2008										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 37.1 (F)										
Maximum Temperature: 53.6 (F)										
Minimum Rel. Hum.: 45.8 (%)										
Maximum Rel. Hum.: 75.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										

Composite NOX :	0.850	1.443	1.390	1.429	2.851	0.700	0.759	6.518	1.79	1.526
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI08P2.IN (file 2, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q2  
* File 2, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0797	0.0003	0.0016	0.1927	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.639	1.072	0.989	1.051	2.819	1.059	1.122	9.957	1.84	2.782

* # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q2
* File 2, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0409	0.0004	0.0019	0.0989	0.0054	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.608	1.025	0.946	1.005	2.583	0.754	0.798	7.266	1.48	1.543
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

```

* * * * *
* Rural minor arterial TDM Q2
* File 2, Run 1, Scenario 3.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```


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Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3997	0.3849	0.1312		0.0222	0.0004	0.0020	0.0538	0.0058	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.605	1.022	0.943	1.002	2.564	0.740	0.783	6.472	1.46	1.174
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q2
* File 2, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0236	0.0004	0.0020	0.0569	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.608	1.025	0.946	1.005	2.582	0.754	0.798	6.592	1.48	1.205

* * * * *	* * * * *	* * * * *	* * * * *							
* Rural local TDM Q2										
* File 2, Run 1, Scenario 6.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3848	0.3706	0.1263		0.0323	0.0004	0.0020	0.0780	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.599	1.012	0.934	0.992	2.509	0.709	0.750	6.193	1.43	1.297

* * * * *
* Urban interstate TDM Q2
* File 2, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3564	0.3431	0.1170		0.0515	0.0004	0.0018	0.1246	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.627	1.053	0.972	1.033	2.727	0.901	0.954	8.569	1.68	1.917

* * * * *
* Urban freeway TDM Q2
* File 2, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3828	0.1305		0.0237	0.0004	0.0020	0.0571	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.590	0.999	0.922	0.979	2.435	0.681	0.720	5.939	1.41	1.144

* * * * *
* Urban minor arterial TDM Q2
* File 2, Run 1, Scenario 10.

```

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 37.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: July
    Altitude: Low
    Minimum Temperature: 58.5 (F)
    Maximum Temperature: 77.1 (F)
    Minimum Rel. Hum.: 44.3 (%)
    Maximum Rel. Hum.: 82.0 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 10.1 psi
    Weathered RVP: 10.1 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.4087 0.3936 0.1342 0.0161 0.0004 0.0021 0.0390 0.0059 1.0000
-----

```


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The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)
Barometric Pressure:	30.00 (in)

Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDVT	HDDV	MC	All Veh
VMT Distribution:	0.3974	0.3827	0.1305	-----	0.0238	0.0004	0.0020	0.0575	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.585	0.991	0.916	0.972	2.344	0.668	0.706	5.826	1.38	1.132

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI08P2N.IN (file 22, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q2  
* File 22, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3030	0.1033		0.0797	0.0003	0.0016	0.1927	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.723	1.206	1.108	1.181	2.819	1.059	1.122	9.957	1.84	2.862

* # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q2
* File 22, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0409	0.0004	0.0019	0.0989	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.690	1.158	1.064	1.134	2.583	0.754	0.798	7.266	1.48	1.636

```

* * * * *
* Rural minor arterial TDM Q2
* File 22, Run 1, Scenario 3.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: July
    Altitude: Low
    Minimum Temperature: 58.5 (F)
    Maximum Temperature: 77.1 (F)
    Minimum Rel. Hum.: 44.3 (%)
    Maximum Rel. Hum.: 82.0 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 10.1 psi
    Weathered RVP: 10.1 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV HDDV LDDT HDDV MC All Veh

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Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312	0.0222	0.0004	0.0020	0.0538	0.0058	1.0000	

Composite Emission Factors (g/mi):
Composite NOX : 0.688 1.154 1.061 1.131 2.564 0.740 0.783 6.472 1.46 1.274

* * * * *
* Rural minor collector TDM Q2
* File 22, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.
Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.3978	0.3829	0.1306		0.0236	0.0004	0.0020	0.0569	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.690	1.158	1.064	1.134	2.582	0.754	0.798	6.592	1.48	1.304

* * * * *
 * Rural local TDM Q2
 * File 22, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3848	0.3706	0.1263		0.0323	0.0004	0.0020	0.0780	0.0056	1.0000

Composite Emission Factors (g/ml):	0.681	1.144	1.052	1.121	2.509	0.709	0.750	6.193	1.43	1.393

* * * * *
* Urban interstate TDM Q2
* File 22, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008		Month: July		Altitude: Low							
Minimum Temperature: 58.5 (F)		Maximum Temperature: 77.1 (F)		Minimum Rel. Hum.: 44.3 (%)							
Maximum Rel. Hum.: 82.0 (%)		Barometric Pressure: 30.00 (inches Hg)		Nominal Fuel RVP: 10.1 psi							
Weathered RVP: 10.1 psi		Fuel Sulfur Content: 30. ppm		Exhaust I/M Program: No							
Evap I/M Program: No		ATP Program: Yes		Reformulated Gas: No							
Vehicle Type:		LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	>6000							
VMT Distribution:		0.3564	0.3431	0.1170		0.0515	0.0004	0.0018	0.1246	0.0052	1.0000

Composite Emission Factors (g/mi):											
Composite NOX :		0.710	1.187	1.090	1.162	2.727	0.901	0.954	8.569	1.68	2.007

* * * * *

* Urban freeway TDM Q2

* File 22, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3807	0.3667	0.1249		0.0350	0.0004	0.0019	0.0848	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.700	1.172	1.077	1.148	2.655	0.817	0.865	7.825	1.56	1.598

* #

* Urban principle arterial TDM Q2

* File 22, Run 1, Scenario 9.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	>6000	(All)						
VMT Distribution:	0.3978	0.3828	0.1305	0.1305	0.0237	0.0004	0.0020	0.0571	0.0057	1.0000	1.0000
Composite Emission Factors (g/mi):											
Composite NOX :	0.672	1.131	1.041	1.108	2.435	0.681	0.720	5.939	1.41	1.243	

* * * * *

* Urban minor arterial TDM Q2

* File 22, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 37.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0161	0.0004	0.0021	0.0390	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.668	1.126	1.037	1.103	2.400	0.674	0.713	5.885	1.40	1.134

* #
* Urban collector TDM Q2
* File 22, Run 1, Scenario 11.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.4121	0.3969	0.1353		0.0138	0.0004	0.0021	0.0334	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.668	1.126	1.037	1.103	2.400	0.674	0.713	5.892	1.40	1.103

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban local TDM Q2										
* File 22, Run 1, Scenario 12.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:										
	User supplied VMT mix.									
M583 Warning:										
	The user supplied arterial average speed of 34.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										
	there are no sales for vehicle class HDGV8b									
M111 Warning:										
	The input diesel sulfur level of 43.0 ppm exceeds									
	the 2007 HDD Rule diesel sulfur limit of 15 ppm.									
Calendar Year: 2008										
	Month: July									
	Altitude: Low									
	Minimum Temperature: 58.5 (F)									
	Maximum Temperature: 77.1 (F)									
	Minimum Rel. Hum.: 44.3 (%)									
	Maximum Rel. Hum.: 82.0 (%)									
	Barometric Pressure: 30.00 (inches Hg)									
	Nominal Fuel RVP: 10.1 psi									
	Weathered RVP: 10.1 psi									

Composite NOX :	0.667	1.123	1.035	1.101	2.344	0.668	0.706	5.826	1.38	1.231
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GUI08P3.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: GUI08P3.IN (file 3, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.996 MYR sum not = 1. (will normalize)
M 49 Warning: 0.996 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q3
* File 3, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0797	0.0003	0.0016	0.1927	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.571	0.941	0.868	0.922	2.908	1.059	1.122	9.957	1.54	2.714

* # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q3
* File 3, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0409	0.0004	0.0019	0.0989	0.0054	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.546	0.899	0.831	0.882	2.665	0.754	0.798	7.266	1.24	1.463
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural minor arterial TDM Q3										
* File 3, Run 1, Scenario 3.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:										
	User supplied VMT mix.									
M583 Warning:										
	The user supplied arterial average speed of 43.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										
	there are no sales for vehicle class HDGV8b									
M111 Warning:										
	The input diesel sulfur level of 43.0 ppm exceeds									
	the 2007 HDD Rule diesel sulfur limit of 15 ppm.									
Calendar Year:	2008									
Month:	July									
Altitude:	Low									
Minimum Temperature:	68.2 (F)									
Maximum Temperature:	83.1 (F)									
Minimum Rel. Hum.:	56.8 (%)									
Maximum Rel. Hum.:	86.8 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	7.8 psi									
Weathered RVP:	7.7 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program:	Yes									
Evap I/M Program:	Yes									
ATP Program:	Yes									
Reformulated Gas:	No									

On-road Mobile Source Emission Inventory Documentation 1949
Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Appendix C.3
Redesignation Demonstration and Maintenance Plan December 18, 2009

Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3997	0.3849	0.1312		0.0222	0.0004	0.0020	0.0538	0.0058	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.544	0.896	0.828	0.879	2.646	0.740	0.783	6.472	1.23	1.087
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* * * * *
* Rural minor collector TDM Q3
* File 3, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0236	0.0004	0.0020	0.0569	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.546	0.899	0.831	0.882	2.664	0.754	0.798	6.592	1.24	1.117

* * * * *	* * * * *	* * * * *	* * * * *							
* Rural local TDM Q3										
* File 3, Run 1, Scenario 6.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3848	0.3706	0.1263		0.0323	0.0004	0.0020	0.0780	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.539	0.887	0.820	0.870	2.589	0.709	0.750	6.193	1.20	1.215

* * * * *
* Urban interstate TDM Q3
* File 3, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3564	0.3431	0.1170		0.0515	0.0004	0.0018	0.1246	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.561	0.924	0.853	0.906	2.814	0.901	0.954	8.569	1.41	1.839

* * * * *
* Urban freeway TDM Q3
* File 3, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3807	0.3667	0.1249	0.0350	0.0004	0.0019	0.0848	0.0055	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.553	0.912	0.842	0.894	2.740	0.817	0.865	7.825	1.31	1.419

* # # # # # # # # # # # # # # # #
* Urban principle arterial TDM Q3
* File 3, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3828	0.1305		0.0237	0.0004	0.0020	0.0571	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.532	0.876	0.810	0.859	2.512	0.681	0.720	5.939	1.19	1.060

* # # # # # # # # # # # # # # # #
* Urban minor arterial TDM Q3
* File 3, Run 1, Scenario 10.

```

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 37.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: July
    Altitude: Low
    Minimum Temperature: 68.2 (F)
    Maximum Temperature: 83.1 (F)
    Minimum Rel. Hum.: 56.8 (%)
    Maximum Rel. Hum.: 86.8 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 7.8 psi
    Weathered RVP: 7.7 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.4087 0.3936 0.1342 0.0161 0.0004 0.0021 0.0390 0.0059 1.0000
-----

```

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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Appendix C.3
December 18, 2009

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Minimum Temperature:	68.2 (F)
Maximum Temperature:	83.1 (F)
Minimum Rel. Hum.:	56.8 (%)
Maximum Rel. Hum.:	86.8 (%)
Barometric Pressure:	30.00 (in)

Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.7 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDVT	HDDV	MC	All Veh
VMT Distribution:	0.3974	0.3827	0.1305		0.0238	0.0004	0.0020	0.0575	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.530	0.870	0.805	0.853	2.418	0.668	0.706	5.826	1.15	1.049

GUI08P3N.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: GUI08P3N.IN (file 23, run 1).
*****
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q3
* File 23, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3030	0.1033		0.0797	0.0003	0.0016	0.1927	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.645	1.058	0.973	1.037	2.908	1.059	1.122	9.957	1.54	2.784

* # # # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q3
* File 23, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0409	0.0004	0.0019	0.0989	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.619	1.016	0.935	0.995	2.665	0.754	0.798	7.266	1.24	1.545

```

* * * * *
* Rural minor arterial TDM Q3
* File 23, Run 1, Scenario 3.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: July
    Altitude: Low
    Minimum Temperature: 68.2 (F)
    Maximum Temperature: 83.1 (F)
    Minimum Rel. Hum.: 56.8 (%)
    Maximum Rel. Hum.: 86.8 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 7.8 psi
    Weathered RVP: 7.7 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh

```

GVWR:	<6000	>6000	(All)						
VTM Distribution:	0.3787	0.3648	0.1244						

Composite Emission Factors (g/ml):

Composite NOX :	0.612	1.003	0.924	0.983	2.590	0.709	0.750	6.195	1.20	1.360
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural major collector TDM Q3

* File 23, Run 1, Scenario 4.

* * * * *

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312	0.0222	0.0004	0.0020	0.0538	0.0058	1.0000	

Composite Emission Factors (g/mi):
Composite NOX : 0.617 1.012 0.932 0.992 2.646 0.740 0.783 6.472 1.23 1.175

* * * * *
* Rural minor collector TDM Q3
* File 23, Run 1, Scenario 5.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.
Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.3978	0.3829	0.1306		0.0236	0.0004	0.0020	0.0569	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.619	1.016	0.935	0.995	2.664	0.754	0.798	6.592	1.24	1.204

* * * * *
* Rural local TDM Q3
* File 23, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263	0.0323	0.0004	0.0020	0.0780	0.0056	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.612	1.003	0.924	0.983	2.589	0.709	0.750	6.193	1.20	1.299

* * * * *
* Urban interstate TDM Q3
* File 23, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0515	0.0004	0.0018	0.1246	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.634	1.041	0.958	1.020	2.814	0.901	0.954	8.569	1.41	1.917

* * * * *
 * Urban freeway TDM Q3
 * File 23, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3807	0.3667	0.1249		0.0350	0.0004	0.0019	0.0848	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.626	1.028	0.946	1.007	2.740	0.817	0.865	7.825	1.31	1.502

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q3

* File 23, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)								
VMT Distribution:	0.3978	0.3828	0.1305	0.0237	0.0004	0.0020	0.0571	0.0057	1.0000		
Composite Emission Factors (g/mi):											
Composite NOX :	0.605	0.992	0.914	0.972	2.512	0.681	0.720	5.939	1.19	1.147	

* * * * *

* Urban minor arterial TDM Q3

* File 23, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.4087	0.3936	0.1342		0.0161	0.0004	0.0021	0.0390	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.603	0.988	0.911	0.968	2.476	0.674	0.713	5.885	1.17	1.036

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.4121	0.3969	0.1353	-----	0.0138	0.0004	0.0021	0.0334	0.0060	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.603	0.988	0.910	0.968	2.476	0.674	0.713	5.892	1.17	1.004

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban local TDM Q3										
* File 23, Run 1, Scenario 12.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 34.0									
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M111 Warning:	The input diesel sulfur level of 43.0 ppm exceeds									
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2008										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										

Composite NOx :	0.604	0.986	0.909	0.966	2.418	0.668	0.706	5.826	1.15	1.137
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GUI08P4.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: GUI08P4.IN (file 4, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.996 MYR sum not = 1. (will normalize)
M 49 Warning: 0.996 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)

* * * * *
* Rural interstate TDM Q4
* File 4, Run 1, Scenario 1.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3148	0.3031	0.1033	>6000	0.0798	0.0003	0.0016	0.1926	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.696	1.226	1.158	1.208	2.973	0.808	1.010	9.802	2.25	2.847

* # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q4
* File 4, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3584	0.1221		0.0409	0.0004	0.0018	0.0989	0.0054	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.658	1.172	1.108	1.156	2.724	0.574	0.716	7.098	1.81	1.625
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* * * * *
* Rural minor arterial TDM Q4
* File 4, Run 1, Scenario 3.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

On-road Mobile Source Emission Inventory Documentation 1979
Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Appendix C.3
Redesignation Demonstration and Maintenance Plan December 18, 2009

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3997	0.3850	0.1312		0.0222	0.0004	0.0020	0.0538	0.0058	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.655	1.168	1.104	1.152	2.705	0.563	0.702	6.371	1.79	1.271
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q4
* File 4, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3978	0.3830	0.1306		0.0236	0.0004	0.0020	0.0569	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.658	1.172	1.108	1.156	2.724	0.574	0.716	6.491	1.81	1.301

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural local TDM Q4										
* File 4, Run 1, Scenario 6.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3848	0.3707	0.1263		0.0324	0.0004	0.0019	0.0779	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.646	1.157	1.094	1.141	2.647	0.540	0.673	6.091	1.75	1.387

* * * * *
* Urban interstate TDM Q4
* File 4, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3565	0.3432	0.1170	0.0516	0.0003	0.0018	0.1245	0.0052	1.0000	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.681	1.204	1.138	1.187	2.877	0.687	0.858	8.407	2.06	1.997

* * * * *
* Urban freeway TDM Q4
* File 4, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1305		0.0237	0.0004	0.0020	0.0571	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.635	1.142	1.080	1.126	2.568	0.518	0.645	5.835	1.73	1.236

* * * * *
* Urban minor arterial TDM Q4
* File 4, Run 1, Scenario 10.

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

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Reformulated Gas: No

Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3974	0.3828	0.1305		0.0238	0.0004	0.0020	0.0575	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.628	1.132	1.072	1.117	2.472	0.508	0.633	5.722	1.68	1.222

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI08P4N.IN (file 24, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q4  
* File 24, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```


* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3584	0.1221		0.0409	0.0004	0.0018	0.0989	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.767	1.331	1.267	1.315	2.724	0.574	0.716	7.098	1.81	1.742

```

* * * * *
* Rural minor arterial TDM Q4
* File 24, Run 1, Scenario 3.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2009
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 44.0 (F)
    Maximum Temperature: 55.9 (F)
    Minimum Rel. Hum.: 61.6 (%)
    Maximum Rel. Hum.: 85.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV HDDV LDDT HDDV MC All Veh

```

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Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3850	0.1312	0.0222	0.0004	0.0020	0.0538	0.0058	1.0000	

Composite Emission Factors (g/mi):
Composite NOX : 0.764 1.327 1.263 1.311 2.705 0.563 0.702 6.371 1.79 1.396

* * * * *
* Rural minor collector TDM Q4
* File 24, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3978	0.3830	0.1306		0.0236	0.0004	0.0020	0.0569	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.767	1.331	1.267	1.315	2.724	0.574	0.716	6.491	1.81	1.426

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural local TDM Q4										
* File 24, Run 1, Scenario 6.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M111 Warning:										

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3848	0.3707	0.1263		0.0324	0.0004	0.0019	0.0779	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.755	1.315	1.253	1.300	2.647	0.540	0.673	6.091	1.75	1.508

* * * * *
* Urban interstate TDM Q4
* File 24, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3565	0.3432	0.1170		0.0516	0.0003	0.0018	0.1245	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.791	1.364	1.296	1.347	2.877	0.687	0.858	8.407	2.06	2.110

* * * * *
 * Urban freeway TDM Q4
 * File 24, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3807	0.3668	0.1249		0.0351	0.0004	0.0019	0.0847	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.779	1.348	1.281	1.331	2.801	0.623	0.777	7.659	1.91	1.710

* # # # # # # # # # # # # # # # # # #
* Urban principle arterial TDM Q4
* File 24, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm

aust	I/M Program:	No
Evap	I/M Program:	No
	ATP Program:	Yes
Reformulated Gas:		No

Composite Emission Factors (g/mi):

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.4121	0.3970	0.1353		0.0138	0.0004	0.0020	0.0334	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.739	1.295	1.235	1.279	2.531	0.513	0.639	5.788	1.71	1.225

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban local TDM Q4										
* File 24, Run 1, Scenario 12.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 34.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2009										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										


```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GULLP1.IN (file 5, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q1  
* File 5, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2838	0.3263	0.1113		0.0797	0.0003	0.0017	0.1926	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.587	1.102	1.019	1.081	2.302	0.497	0.716	6.910	2.35	2.166

* * * * *
* Rural principle arterial TDM Q1
* File 5, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3352	0.3859	0.1316		0.0409	0.0003	0.0020	0.0990	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.559	1.063	0.984	1.043	2.137	0.370	0.532	5.201	1.95	1.340

* # # # # # # # # # # # # # # # #
* Rural minor arterial TDM Q1
* File 5, Run 1, Scenario 3.

* #

- * Reading PM Gas Carbon ZML Levels
- * from the external data file PMGZML.CSV
- * Reading PM Gas Carbon DR1 Levels
- * from the external data file PMGDR1.CSV
- * Reading PM Gas Carbon DR2 Levels
- * from the external data file PMGDR2.CSV
- * Reading PM Diesel Zero Mile Levels
- * from the external data file PMDZML.CSV
- * Reading the First PM Deterioration Rates
- * from the external data file PMDDR1.CSV
- * Reading the Second PM Deterioration Rates
- * from the external data file PMDDR2.CSV
- * Rural minor arterial mix and speeds
- M615 Comment: User supplied VMT mix.
- M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
- M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3413	0.3929	0.1340		0.0364	0.0003	0.0020	0.0878	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.544	1.043	0.966	1.023	2.047	0.337	0.484	4.381	1.86	1.195

* * * * *
* Rural major collector TDM Q1
* File 5, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3602	0.4146	0.1413	-----	0.0222	0.0003	0.0021	0.0537	0.0056	1.0000

Composite Emission Factors (g/mi):
Composite NOx : 0.554 1.056 0.978 1.036 2.107 0.356 0.512 4.637 1.90 1.083

* * * * *
* Rural minor collector TDM Q1
* File 5, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

 User supplied VMT mix.
M583 Warning:

 The user supplied arterial average speed of 47.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

 Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3585	0.4124	0.1406	0.0236	0.0003	0.0021	0.0570	0.0055	1.0000	

Composite Emission Factors (g/mi):	0.556	1.060	0.981	1.040	2.122	0.363	0.522	4.736	1.92	1.106
Composite NOX :										

```

* * * * *
* Rural local TDM Q1
* File 5, Run 1, Scenario 6.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes

```

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3467	0.3991	0.1361	0.0323	0.0020	0.0781	0.0054	1.0000		
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--	--

Composite Emission Factors (g/mi):

Composite NOX :	0.544	1.043	0.966	1.023	2.047	0.337	0.484	4.383	1.86	1.156
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Urban interstate TDM Q1
* File 5, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3210	0.3696	0.1260	0.0515	0.0003	0.0019	0.1247	0.0050	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.576	1.087	1.006	1.066	2.241	0.435	0.626	6.076	2.19	1.599

* * * * *
* Urban freeway TDM Q1
* File 5, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)

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```

* * * * *
* * Urban principle arterial TDM Q1
* *
* * File 5, Run 1, Scenario 9.
* * * * *

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
```

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

User supplied VMT mix.

The user supplied arterial average speed of 39.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3582	0.4123	0.1406		0.0237	0.0003	0.0021	0.0573	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.536	1.033	0.958	1.014	2.001	0.327	0.470	4.254	1.84	1.055

* * * * *
* Urban minor arterial TDM Q1
* File 5, Run 1, Scenario 10.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0161	0.0003	0.0021	0.0391	0.0057	1.0000
Composite Emission Factors (g/ml):	0.533	1.028	0.954	1.009	1.972	0.324	0.465	4.212	1.82	0.978

* * * * *
* Urban collector TDM Q1
* File 5, Run 1, Scenario 11.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1457		0.0138	0.0003	0.0022	0.0335	0.0057	1.0000

Composite Emission Factors (g/ml):	0.533	1.028	0.953	1.009	1.972	0.324	0.465	4.212	1.82	0.956

* * * * *
 * Urban local TDM Q1
 * File 5, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406		0.0237	0.0003	0.0021	0.0575	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.530	1.025	0.951	1.006	1.925	0.321	0.461	4.172	1.79	1.042

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GULLPIN.IN (file 25, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q1  
* File 25, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2838	0.3263	0.1113		0.0797	0.0003	0.0017	0.1926	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.720	1.296	1.195	1.270	2.302	0.497	0.716	6.910	2.35	2.286

* * * * *
* Rural principle arterial TDM Q1
* File 25, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

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```
M 48 Warning:
there are no sales for vehicle class HDGV8b
```

Exhaust	I/M Program:	No
Evap	I/M Program:	No
	ATP Program:	Yes
Reformulated Gas:		No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3602	0.4146	0.1413		0.0222	0.0003	0.0021	0.0537	0.0056	1.0000
Composite Emission Factors (g/mi):										

Composite NOx :	0.684	1.247	1.152	1.223	2.107	0.356	0.512	4.637	1.90	1.234

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Rural minor collector TDM Q1										
* File 25, Run 1, Scenario 5.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 47.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 37.1 (F)										
Maximum Temperature: 53.6 (F)										
Minimum Rel. Hum.: 45.8 (%)										
Maximum Rel. Hum.: 75.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

-----
VMT Distribution:  0.3585  0.4124  0.1406  -----  0.0236  0.0003  0.0021  0.0570  0.0055  -----  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :    0.687    1.250    1.155    1.226    2.122    0.363    0.522    4.736    1.92    1.256
-----

```

```

* * * * *
* Rural local TDM Q1
* File 25, Run 1, Scenario 6.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```


Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1260		0.0515	0.0003	0.0019	0.1247	0.0050	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.709 1.280 1.180 1.254 2.241 0.435 0.626 6.076 2.19 1.734

* * * * *
* Urban freeway TDM Q1
* File 25, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3429	0.3950	0.1347	0.0351	0.0003	0.0020	0.0847	0.0053	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.697	1.265	1.167	1.240	2.182	0.394	0.566	5.522	2.03	1.452

* * * * *
* Urban principle arterial TDM Q1
* File 25, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0237	0.0003	0.0021	0.0573	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.665	1.223	1.133	1.200	2.001	0.327	0.470	4.254	1.84	1.204

* * * * *
* Urban minor arterial TDM Q1
* File 25, Run 1, Scenario 10.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0161	0.0003	0.0021	0.0391	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.661	1.218	1.129	1.195	1.972	0.324	0.465	4.212	1.82	1.131

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban collector TDM Q1										
* File 25, Run 1, Scenario 11.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT									

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1457		0.0138	0.0003	0.0022	0.0335	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.661	1.218	1.129	1.195	1.972	0.324	0.465	4.212	1.82	1.111

* * * * *
* Urban local TDM Q1
* File 25, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3582	0.4121	0.1406		0.0237	0.0003	0.0021	0.0575	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.659	1.215	1.127	1.193	1.925	0.321	0.461	4.172	1.79	1.192

GUI11P2.TXT

 * MOBILE6.2.03 (24-Sep-2003) *
 * Input file: GUI11P2.IN (file 6, run 1). *

 * Reading Registration Distributions from the following external
 * data file: GUIAGE07.PRN
 M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
 M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
 M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
 M 49 Warning: 0.996 MYR sum not = 1. (will normalize)
 M 49 Warning: 0.996 MYR sum not = 1. (will normalize)
 M 49 Warning:

```

0.999      MYR sum not = 1. (will normalize)
M 49 Warning:
0.999      MYR sum not = 1. (will normalize)
M 49 Warning:
0.999      MYR sum not = 1. (will normalize)
M 49 Warning:
0.999      MYR sum not = 1. (will normalize)
M 49 Warning:
0.999      MYR sum not = 1. (will normalize)
M 49 Warning:
0.999      MYR sum not = 1. (will normalize)
M 49 Warning:
0.999      MYR sum not = 1. (will normalize)
M 49 Warning:
0.999      MYR sum not = 1. (will normalize)
M 49 Warning:
0.999      MYR sum not = 1. (will normalize)
M 49 Warning:
0.998      MYR sum not = 1. (will normalize)
M 49 Warning:
1.00       MYR sum not = 1. (will normalize)

* * * * *
* Rural interstate TDM Q2
* File 6, Run 1, Scenario 1.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D
M 48 Warning:

```

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2838	0.3263	0.1113		0.0795	0.0003	0.0017	0.1928	0.0044	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.457	0.845	0.761	0.824	1.877	0.471	0.665	5.852	1.81	1.777

* * * * *
* Rural principle arterial TDM Q2
* File 6, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 48.0

will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3352	0.3859	0.1316		0.0408	0.0003	0.0020	0.0991	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.437	0.814	0.733	0.793	1.742	0.351	0.494	4.402	1.49	1.073

* * * * *
* Rural minor arterial TDM Q2
* File 6, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3413	0.3929	0.1340		0.0363	0.0003	0.0020	0.0879	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.426	0.798	0.719	0.778	1.668	0.320	0.450	3.715	1.43	0.951

* * * * *

* Rural major collector TDM Q2

* File 6, Run 1, Scenario 4.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3602	0.4146	0.1413		0.0222	0.0003	0.0021	0.0537	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.433	0.809	0.728	0.788	1.718	0.338	0.475	3.932	1.46	0.853

* * * * *
 * Rural minor collector TDM Q2
 * File 6, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 47.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3585	0.4124	0.1406		0.0235	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.435	0.811	0.731	0.791	1.730	0.345	0.485	4.016	1.48	0.872

* * * * *

* Rural Local TDM Q2

* File 6, Run 1, Scenario 6.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV


```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT34 LDGT34 LDGT34 LDGT34 LDGT34 LDGT34
GVWR: <6000 >6000 (All)
VMT Distribution: 0.3467 0.3991 0.1361 0.0322 0.0003 0.0020 0.0782 0.0054 1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.426 0.798 0.719 0.778 1.669 0.320 0.450 3.716 1.43 0.917

* * * * *
* Urban interstate TDM Q2
* File 6, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1260		0.0514	0.0003	0.0019	0.1248	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.449	0.833	0.750	0.812	1.827	0.412	0.581	5.144	1.68	1.292

* * * * *
* Urban freeway TDM Q2
* File 6, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:

<6000

>6000

0.3429

0.3950

0.1347

0.0350

0.0020

0.0003

0.0848

0.0053

1.0000

Composite Emission Factors (g/ml):

Composite NOX : 0.442

0.822

0.740

0.801

1.779

0.374

0.526

* * * * *
* Urban principle arterial TDM Q2
* File 6, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:
M583 Warning:
The user supplied VMT mix.
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0236	0.0003	0.0021	0.0574	0.0055	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite NOx :    0.421    0.791    0.712    0.771    1.631    0.311    0.436    3.607    1.41    0.831
-----

* * * * *
* Urban minor arterial TDM Q2
* File 6, Run 1, Scenario 10.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.

M583 Warning:
    The user supplied arterial average speed of 37.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3683	0.4239	0.1445	0.0161	0.0003	0.0021	0.0391	0.0057	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.419	0.787	0.709	0.767	1.607	0.308	0.432	3.572	1.40	0.765

* * * * *
* Urban collector TDM Q2
* File 6, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1457		0.0138	0.0003	0.0022	0.0335	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.419	0.787	0.709	0.767	1.608	0.308	0.432	3.572	1.40	0.746

* * * * *
* Urban local TDM Q2
* File 6, Run 1, Scenario 12.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi

Composite Emission Factors (g/mi):


```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUILLP2N.IN (file 26, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q2  
* File 26, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2838	0.3263	0.1113		0.0795	0.0003	0.0017	0.1928	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.560	1.013	0.892	0.983	1.877	0.471	0.665	5.852	1.81	1.875

* * * * *
* Rural principle arterial TDM Q2
* File 26, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3413	0.3929	0.1340		0.0363	0.0003	0.0020	0.0879	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.527	0.963	0.849	0.934	1.668	0.320	0.450	3.715	1.43	1.068

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Appendix C.3
December 18, 2009

```
M 48 Warning:
there are no sales for vehicle class HDGV8b
```

Reformulated Gas: No

Composite Emission Factors (g/mi):

Composite NOx :	0.534	0.974	0.858	0.945	1.718	0.338	0.475	3.932	1.46	0.976

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural minor collector TDM Q2										
* File 26, Run 1, Scenario 5.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 47.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.1 psi										
Weathered RVP: 10.1 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

VMT Distribution: 0.3585 0.4124 0.1406 0.0235 0.0021 0.0571 0.0055 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx : 0.536 0.977 0.861 0.947 1.730 0.345 0.485 4.016 1.48 0.995
-----

```

```

* * * * *
* Rural local TDM Q2
* File 26, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3467	0.3991	0.1361		0.0322	0.0003	0.0020	0.0782	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.527	0.963	0.849	0.934	1.669	0.320	0.450	3.716	1.43	1.036
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban interstate TDM Q2

* File 26, Run 1, Scenario 7.

* * * * *

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* * * * *

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* * * * *

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* * * * *

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* * * * *

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* * * * *

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1260		0.0514	0.0003	0.0019	0.1248	0.0050	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.552	1.000	0.881	0.970	1.827	0.412	0.581	5.144	1.68	1.403
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Urban freeway TDM Q2
* File 26, Run 1, Scenario 8.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347	0.0350	0.0003	0.0020	0.0848	0.0053	1.0000	
Composite Emission Factors (g/ml):										
Composite NOX :	0.544	0.988	0.870	0.958	1.779	0.374	0.526	4.674	1.56	1.162

* * * * *
* Urban principle arterial TDM Q2
* File 26, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0236	0.0003	0.0021	0.0574	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.522	0.955	0.843	0.926	1.631	0.311	0.436	3.607	1.41	0.953

* * * * *
* Urban minor arterial TDM Q2
* File 26, Run 1, Scenario 10.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0161	0.0003	0.0021	0.0391	0.0057	1.0000
Composite Emission Factors (g/ml):	0.519	0.951	0.839	0.923	1.607	0.308	0.432	3.572	1.40	0.890

* * * * *
* Urban collector TDM Q2
* File 26, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1457		0.0138	0.0003	0.0022	0.0335	0.0057	1.0000
Composite Emission Factors (g/ml):	0.519	0.951	0.839	0.923	1.608	0.308	0.432	3.572	1.40	0.873

* * * * *
* Urban local TDM Q2
* File 26, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406	0.0237	0.0003	0.0021	0.0575	0.0055	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.518	0.949	0.838	0.921	1.570	0.305	0.428	3.537	1.38	0.944

GUI11P3.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: GUI11P3.IN (file 7, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

* * * * *
* Rural interstate TDM Q3
* File 7, Run 1, Scenario 1.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2838	0.3263	0.1113		0.0795	0.0003	0.0017	0.1928	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.408	0.740	0.667	0.722	1.948	0.471	0.665	5.852	1.52	1.723

Rural principle arterial TDM Q3
File 7, Run 1, Scenario 2.

*
Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 48.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3352	0.3859	0.1316		0.0408	0.0003	0.0020	0.0991	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.392	0.713	0.643	0.695	1.808	0.351	0.494	4.402	1.25	1.008

* # # # # # # # # # # # # # # # #
* Rural minor arterial TDM Q3
* File 7, Run 1, Scenario 3.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:

<6000

>6000

0.3413

0.3929

0.1340

0.0363

0.0020

0.0003

0.0879

0.0053

1.0000

Composite Emission Factors (g/mi):

Composite NOX : 0.384

0.698

0.630

0.681

1.732

3.715

1.20

* * * * *
* Rural major collector TDM Q3
* File 7, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3602	0.4146	0.1413	-----	0.0222	0.0003	0.0021	0.0537	0.0056	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite NOx :    0.389    0.708    0.638    0.690    1.783    0.338    0.475    3.932    1.23    0.783
-----

* * * * *
* Rural minor collector TDM Q3
* File 7, Run 1, Scenario 5.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural minor collector mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 47.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b

      Calendar Year: 2011
      Month: July
      Altitude: Low
      Minimum Temperature: 68.2 (F)
      Maximum Temperature: 83.1 (F)
      Minimum Rel. Hum.: 56.8 (%)
      Maximum Rel. Hum.: 86.8 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 7.8 psi
      Weathered RVP: 7.7 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: Yes
      Evap I/M Program: Yes
      ATP Program: Yes
      Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:				(All)						
VTM Distribution:	0.3585	0.4124	0.1406		0.0235	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.391	0.710	0.640	0.692	1.795	0.345	0.485	4.016	1.24	0.802

* * * * *
* Rural local TDM Q3
* File 7, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3467	0.3991	0.1361	0.0322	0.0003	0.0020	0.0782	0.0054	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.384	0.698	0.630	0.681	1.732	0.320	0.450	3.716	1.20	0.851

* * * * *
* Urban interstate TDM Q3
* File 7, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3210	0.3696	0.1260		0.0514	0.0003	0.0019	0.1248	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.402	0.730	0.658	0.711	1.896	0.412	0.581	5.144	1.41	1.229

* * * * *
 * Urban freeway TDM Q3
 * File 7, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning: The user supplied freeway average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0350	0.0003	0.0020	0.0848	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.396	0.720	0.649	0.702	1.846	0.374	0.526	4.674	1.31	0.977

* * * * *
* Urban principle arterial TDM Q3
* File 7, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4123	0.1406		0.0236	0.0003	0.0021	0.0574	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.380	0.691	0.624	0.674	1.693	0.311	0.436	3.607	1.19	0.763

* * * * *
* Urban minor arterial TDM Q3
* File 7, Run 1, Scenario 10.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0161	0.0003	0.0021	0.0391	0.0057	1.0000
Composite Emission Factors (g/ml):	0.378	0.688	0.621	0.671	1.668	0.308	0.432	3.572	1.17	0.695

* * * * *
* Urban collector TDM Q3
* File 7, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1457		0.0138	0.0003	0.0022	0.0335	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.378	0.688	0.621	0.671	1.668	0.308	0.432	3.572	1.17	0.676

* # # # # # # # # # # # # # # # # #
* Urban local TDM Q3
* File 7, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406		0.0237	0.0003	0.0021	0.0575	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.378	0.686	0.620	0.670	1.629	0.305	0.428	3.537	1.15	0.755

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GULLP3N.IN (file 27, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q3  
* File 27, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2838	0.3263	0.1113		0.0795	0.0003	0.0017	0.1928	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.499	0.887	0.783	0.861	1.948	0.471	0.665	5.852	1.52	1.809

* * * * *
* Rural principle arterial TDM Q3
* File 27, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

M 48 Warning: The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types. there are no sales for vehicle class HDGV8b

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3413	0.3929	0.1340	0.0363	0.0003	0.0020	0.0879	0.0053	1.0000	
Composite Emission Factors (g/ml):										
Composite NOX :	0.474	0.842	0.745	0.818	1.732	0.320	0.450	3.715	1.20	0.989

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M 48 Warning:
there are no sales for vehicle class HDGV8b
```

Composite Emission Factors (g/mj):

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3602	0.4146	0.1413		0.0222	0.0003	0.0021	0.0537	0.0056	1.0000

Composite Emission Factors (g/mi):

Composite NOx :	0.479	0.852	0.753	0.827	1.783	0.338	0.475	3.932	1.23	0.891

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Rural minor collector TDM Q3										
* File 27, Run 1, Scenario 5.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 47.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type: LDGV	LDGT12	LDGT34	LDGT	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

```

VMT Distribution:    0.3585    0.4124    0.1406    0.0235    0.0003    0.0021    0.0571    0.0055    1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX :    0.481    0.855    0.755    0.830    1.795    0.345    0.485    4.016    1.24    0.910
-----

* * * * *
* Rural local TDM Q3
* File 27, Run 1, Scenario 6.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.

M583 Warning:
      The user supplied arterial average speed of 42.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.

M 48 Warning:
      there are no sales for vehicle class HDGV8b

      Calendar Year: 2011
      Month: July
      Altitude: Low
      Minimum Temperature: 68.2 (F)
      Maximum Temperature: 83.1 (F)
      Minimum Rel. Hum.: 56.8 (%)
      Maximum Rel. Hum.: 86.8 (%)
      Barometric Pressure: 30.00 (inches Hg)
      Nominal Fuel RVP: 7.8 psi
      Weathered RVP: 7.7 psi
      Fuel Sulfur Content: 30. ppm

      Exhaust I/M Program: No
      Evap I/M Program: No
      ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution: 0.3467 0.3991 0.1361 0.0322 0.0003 0.0020 0.0782 0.0054 1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.474 0.842 0.745 0.818 1.732 0.320 0.450 3.716 1.20 0.956

* * * * *
* Urban interstate TDM Q3
* File 27, Run 1, Scenario 7.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* * * * *
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1260		0.0514	0.0003	0.0019	0.1248	0.0050	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.492 0.876 0.773 0.850 1.896 0.412 0.581 5.144 1.41 1.327

* * * * *
* Urban freeway TDM Q3
* File 27, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 51.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0350	0.0003	0.0020	0.0848	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.486	0.865	0.764	0.839	1.846	0.374	0.526	4.674	1.31	1.081

* * * * *
* Urban principle arterial TDM Q3
* File 27, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0236	0.0003	0.0021	0.0574	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.470	0.835	0.739	0.811	1.693	0.311	0.436	3.607	1.19	0.871

* * * * *
* Urban minor arterial TDM Q3
* File 27, Run 1, Scenario 10.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0161	0.0003	0.0021	0.0391	0.0057	1.0000
Composite Emission Factors (g/ml):	0.468	0.832	0.736	0.808	1.668	0.308	0.432	3.572	1.17	0.806

* * * * *
* Urban collector TDM Q3
* File 27, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1457		0.0138	0.0003	0.0022	0.0335	0.0057	1.0000
Composite Emission Factors (g/ml):	0.468	0.832	0.736	0.808	1.668	0.308	0.432	3.572	1.17	0.787

* * * * *
* Urban local TDM Q3
* File 27, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406		0.0237	0.0003	0.0021	0.0575	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.469	0.831	0.735	0.806	1.629	0.305	0.428	3.537	1.15	0.863

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GULLP4.IN (file 8, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q4  
* File 8, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```


* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 48.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3352	0.3859	0.1316		0.0409	0.0003	0.0019	0.0990	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.465	0.938	0.823	0.909	1.728	0.280	0.439	4.325	1.83	1.136

* * * * *
 * Rural minor arterial TDM Q4
 * File 8, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

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Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:	-----	<6000	>6000	(All)	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3602	0.4146	0.1413		0.0222	0.0003	0.0021	0.0537	0.0056	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.461	0.932	0.817	0.903	1.704	0.270	0.422	3.885	1.79	0.925
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q4
* File 8, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1406		0.0236	0.0003	0.0021	0.0570	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.463	0.935	0.820	0.906	1.716	0.275	0.431	3.966	1.81	0.945

* * * * *
 * Rural local TDM Q4
 * File 8, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3467	0.3991	0.1361		0.0323	0.0003	0.0020	0.0781	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.452	0.920	0.807	0.891	1.655	0.256	0.400	3.673	1.75	0.985

* * * * *
* Urban interstate TDM Q4
* File 8, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1260		0.0516	0.0003	0.0019	0.1246	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.481	0.960	0.842	0.930	1.812	0.330	0.516	5.050	2.06	1.349

* * * * *

* Urban freeway TDM Q4

* File 8, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

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* * * * *
* * Urban principle arterial TDM Q4
* * File 8, Run 1, Scenario 9.
* * * * *
*
* * Reading PM Gas Carbon ZML Levels
* * from the external data file PMGZML.CSV
*
* * Reading PM Gas Carbon DR1 Levels
* * from the external data file PMGDR1.CSV
*
* * Reading PM Gas Carbon DR2 Levels
* * from the external data file PMGDR2.CSV
*
* * Reading PM Diesel Zero Mile Levels
* * from the external data file PMDZML.CSV
*
* * Reading the First PM Deterioration Rates

```


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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1457		0.0138	0.0003	0.0022	0.0335	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.443	0.908	0.796	0.879	1.595	0.246	0.384	3.532	1.71	0.819

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local TDM Q4
* File 8, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution:	0.3582	0.4121	0.1406	0.0238	0.0003	0.0021	0.0574	0.0055	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.440	0.905	0.793	0.876	1.557	0.243	0.380	3.499	1.68
									0.890

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUILLP4N.IN (file 28, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q4  
* File 28, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2839	0.3263	0.1113		0.0797	0.0002	0.0016	0.1926	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.622	1.165	1.022	1.129	1.862	0.377	0.591	5.741	2.21	1.935

* * * * *
* Rural principle arterial TDM Q4
* File 28, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year: 2012										
Month: Jan.	Low									
Altitude:										
Minimum Temperature:	44.0 (F)									
Maximum Temperature:	55.9 (F)									
Minimum Rel. Hum.:	61.6 (%)									
Maximum Rel. Hum.:	85.1 (%)									
Barometric Pressure:	30.00 (inches Hg)									
Nominal Fuel RVP:	14.0 psi									
Weathered RVP:	14.0 psi									
Fuel Sulfur Content:	30. ppm									
Exhaust I/M Program:	No									
Evap I/M Program:	No									
ATP Program:	Yes									
Reformulated Gas:	No									
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDGT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3352	0.3859	0.1316		0.0409	0.0003	0.0019	0.0990	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.594	1.127	0.990	1.092	1.728	0.280	0.439	4.325	1.83	1.273

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Calendar Year:	2012
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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Composite Emission Factors (g/mi):
Composite NOx :    0.580    1.108    0.974    1.074    1.655    0.256    0.400    3.672    1.75    1.156
-----

* * * * *
* Rural major collector TDM Q4
* File 28, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2012
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 44.0 (F)
    Maximum Temperature: 55.9 (F)
    Minimum Rel. Hum.: 61.6 (%)
    Maximum Rel. Hum.: 85.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3602	0.4146	0.1413		0.0222	0.0003	0.0021	0.0537	0.0056	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.589	1.120	0.984	1.086	1.704	0.270	0.422	3.885	1.79	1.073
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural minor collector TDM Q4

* File 28, Run 1, Scenario 5.

* * * * *

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* * * * *

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* * * * *

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* * * * *

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* * * * *

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* * * * *

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3585	0.4124	0.1406	0.0236	0.0003	0.0021	0.0570	0.0055	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.592	1.124	0.987	1.089	1.716	0.275	0.431	3.966	1.81	1.092

* * * * *
* Rural local TDM Q4
* File 28, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low

Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0323	0.0003	0.0020	0.0781	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.580	1.108	0.973	1.074	1.655	0.256	0.400	3.673	1.75	1.126

* * * * *
* Urban interstate TDM Q4
* File 28, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1260		0.0516	0.0003	0.0019	0.1246	0.0050	1.0000
Composite Emission Factors (g/ml):	0.611	1.150	1.009	1.114	1.812	0.330	0.516	5.050	2.06	1.483

* * * * *
 * Urban freeway TDM Q4
 * File 28, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0351	0.0003	0.0020	0.0847	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.601	1.137	0.998	1.101	1.765	0.299	0.467	4.591	1.91	1.252

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q4

* File 28, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0237	0.0003	0.0021	0.0573	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.573	1.099	0.966	1.065	1.618	0.248	0.388	3.567	1.73	1.047

* # # # # # # # # # # # # # # # # #
 * Urban minor arterial TDM Q4
 * File 28, Run 1, Scenario 10.
 * # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1457		0.0138	0.0003	0.0022	0.0335	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.569	1.094	0.962	1.061	1.595	0.246	0.384	3.532	1.71	0.970

* # # # # # # # # # # # # # # # #
* Urban local TDM Q4

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

2117
Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan


```
*****  
** MOBILE6.2.03 (24-Sep-2003) *  
** Input file: GUII4PI.IN (file 9, run 1). *  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q1  
* File 9, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0796	0.0002	0.0017	0.1930	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.398	0.831	0.710	0.800	1.324	0.253	0.428	3.857	2.31	1.333

* # # # # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q1
* File 9, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 50.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.

Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3076	0.4065	0.1385		0.0409	0.0003	0.0021	0.0990	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.382	0.809	0.691	0.779	1.253	0.201	0.339	3.083	1.99	0.910

* * * * *
* Rural minor arterial TDM Q1
* File 9, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

VMT Distribution:      0.3134      0.4138      0.1410      0.0363      0.0003      0.0021      0.0879      0.0052      1.0000
-----
Composite Emission Factors (g/mi.):
Composite NOx :      0.371      0.795      0.678      0.765      1.201      0.181      0.306      2.609      1.87      0.824
-----

* * * * *
* Rural major collector TDM Q1
* File 9, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

```

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3306	0.4367	0.1488	0.0222	0.0003	0.0022	0.0537	0.0055	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.375	0.800	0.682	0.770	1.219	0.187	0.316	2.691	1.90	0.757
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q1
* File 9, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3291	0.4344	0.1480		0.0236	0.0003	0.0022	0.0570	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.377	0.802	0.684	0.772	1.228	0.191	0.322	2.753	1.92	0.771

* * * * *
* Rural local TDM Q1
* File 9, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0322	0.0003	0.0021	0.0780	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.375	0.800	0.682	0.770	1.219	0.187	0.316	2.696	1.90	0.814

* * * * *
* Urban interstate TDM Q1
* File 9, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0515	0.0003	0.0020	0.1247	0.0049	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.394	0.826	0.705	0.795	1.306	0.237	0.401	3.615	2.23	1.061

* * * * *
* Urban freeway TDM Q1
* File 9, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:

M581 Warning:

M 48 Warning:

M 48 Warning:

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Month: Jan.

Minimum Temperature: 37.1

Maximum Temperature:	55.0 (F)
Minimum Rel Hum :	45.8 (%)

Maximum Ret. Hum.: 73.1 (%)
Barometric Pressure: 30.00 (in)

Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust	I/M Program:	Yes
Exhaust	I/M Program:	Yes

ATP Program: Yes

WR: <6000

on: 0.3151 0.4160

on Factors (g/mi):

.....

##

all cellat IDM QT
scenario 9

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Carbon ZML Levels

al data file PMGDR1.CSV

Carbon DR2 Levels

al data file PMDZML.CSV

Fast PM Deterioration Rate

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3151	0.4160	0.1417		0.0349	0.0003	0.0021	0.0847	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.382	0.809	0.691	0.779	1.253	0.201	0.339	3.088	1.99	0.871

```
* * * * *
* Urban principle arterial TDM Q1
* File 9, Run 1, Scenario 9.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* Reading PM Gas Carbon DR2 Levels

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0138	0.0003	0.0023	0.0334	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.360	0.779	0.664	0.750	1.141	0.170	0.287	2.451	1.82	0.684

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local TDM Q1
* File 9, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution:	0.3288	0.4341	0.1479	0.0237	0.0003	0.0022	0.0576	0.0054	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.358	0.777	0.662	0.748	1.115	0.169	0.285	2.427	1.79
									0.729

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI14PIN.IN (file 29, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q1  
* File 29, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```


* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0796	0.0002	0.0017	0.1930	0.0043	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.546	1.053	0.896	1.013	1.324	0.253	0.428	3.857	2.31	1.469
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* * * * *
* Rural principle arterial TDM Q1
* File 29, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2014
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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Appendix C.3
December 18, 2009

-----Composite Emission Factors (g/mi):									
Composite NOX :	0.515	1.011	0.861	0.973	1.201	0.181	0.306	2.609	1.87

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector TDM Q1									
* File 29, Run 1, Scenario 4.									
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural major collector mix and speeds									
M615 Comment:									
User supplied VMT mix.									
M583 Warning:									
The user supplied arterial average speed of 46.0									
will be used for all hours of the day. 100% of VMT									
has been assigned to the arterial/collector roadway									
type for all hours of the day and all vehicle types.									
M 48 Warning:									
there are no sales for vehicle class HDGV8b									
M 48 Warning:									
there are no sales for vehicle class LDDT12									
Calendar Year: 2014									
Month: Jan.									
Altitude: Low									
Minimum Temperature: 37.1 (F)									
Maximum Temperature: 53.6 (F)									
Minimum Rel. Hum.: 45.8 (%)									
Maximum Rel. Hum.: 75.1 (%)									
Barometric Pressure: 30.00 (inches Hg)									
Nominal Fuel RVP: 14.0 psi									
Weathered RVP: 14.0 psi									
Fuel Sulfur Content: 30. ppm									
Exhaust I/M Program: No									
Evap I/M Program: No									
ATP Program: Yes									

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3306	0.4367	0.1488		0.0222	0.0003	0.0022	0.0537	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.520	1.017	0.866	0.978	1.219	0.187	0.316	2.691	1.90	0.927

* * * * *
 * Rural minor collector TDM Q1
 * File 29, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 47.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3291	0.4344	0.1480	0.0236	0.0003	0.0022	0.0570	0.0054	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.522	1.020	0.868	0.981	1.228	0.191	0.322	2.753	1.92	0.940

* * * * *
* Rural local TDM Q1
* File 29, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
M 48 Warning:
M 48 Warning:

Calendar Year: 2014
Month: Jan.
Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0322	0.0003	0.0021	0.0780	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.520	1.017	0.866	0.978	1.219	0.187	0.316	2.696	1.90	0.977

* * * * *
* Urban interstate TDM Q1
* File 29, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0515	0.0003	0.0020	0.1247	0.0049	1.0000
Composite Emission Factors (g/ml):	0.541	1.046	0.891	1.007	1.306	0.237	0.401	3.615	2.23	1.215

* * * * *
 * Urban freeway TDM Q1
 * File 29, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0349	0.0003	0.0021	0.0847	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.528	1.028	0.875	0.989	1.253	0.201	0.339	3.088	1.99	1.034

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q1

* File 29, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0237	0.0003	0.0022	0.0572	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.505	0.998	0.850	0.960	1.158	0.172	0.290	2.474	1.84	0.905

* # # # # # # # # # # # # # # # # # #
 * Urban minor arterial TDM Q1
 * File 29, Run 1, Scenario 10.
 * # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0138	0.0003	0.0023	0.0334	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.502	0.994	0.847	0.957	1.141	0.170	0.287	2.451	1.82	0.857

* # # # # # # # # # # # # # # # #
* Urban local TDM Q1

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Composite Emission Factors (g/mi):										
Composite NOX :	0.500	0.992	0.845	0.954	1.115	0.169	0.285	2.427	1.79	0.896

GUI14P2.TXT

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0795	0.0002	0.0017	0.1931	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.312	0.641	0.535	0.614	1.089	0.241	0.402	3.311	1.78	1.098

* # # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q2
* File 10, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 50.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	>6000								
VMT Distribution:	0.3076	0.4065	0.1385		0.0408	0.0003	0.0021	0.0991	0.0051	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.301	0.624	0.520	0.597	1.031	0.191	0.319	2.644	1.53	0.731
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor arterial TDM Q2
* File 10, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

[illegible]

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3306	0.4367	0.1488		0.0222	0.0003	0.0022	0.0537	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.296	0.616	0.513	0.590	1.002	0.178	0.296	2.314	1.46	0.598
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q2
* File 10, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3291	0.4344	0.1480		0.0235	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.297	0.618	0.515	0.592	1.010	0.181	0.302	2.367	1.48	0.610

* * * * *
* Rural local TDM Q2
* File 10, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0322	0.0003	0.0021	0.0780	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.296	0.616	0.513	0.590	1.003	0.178	0.296	2.318	1.46	0.648

* * * * *
* Urban interstate TDM Q2
* File 10, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0514	0.0003	0.0020	0.1248	0.0049	1.0000

Composite Emission Factors (g/ml):	0.309	0.637	0.532	0.610	1.074	0.225	0.376	3.103	1.71	0.861

* * * * *

* Urban freeway TDM Q2

* File 10, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

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* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0236	0.0003	0.0022	0.0573	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.287	0.602	0.501	0.576	0.952	0.163	0.272	2.127	1.41	0.583

* #										
* Urban minor arterial TDM Q2										
* File 10, Run 1, Scenario 10.										
* #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0138	0.0003	0.0023	0.0334	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.285	0.599	0.499	0.573	0.939	0.162	0.270	2.108	1.40	0.535

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local TDM Q2
* File 10, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution:	0.3288	0.4341	0.1479	0.0237	0.0003	0.0022	0.0576	0.0054	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.284	0.597	0.497	0.572	0.917	0.160	0.267	2.086	1.38
									0.576

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: GUI14P2N.IN (file 30, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q2
* File 30, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0795	0.0002	0.0017	0.1931	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.427	0.832	0.676	0.792	1.089	0.241	0.402	3.311	1.78	1.210

* * * * *
* Rural principle arterial TDM Q2
* File 30, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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-----Composite Emission Factors (g/mi):-----										
Composite NOX :	0.406	0.798	0.648	0.760	0.988	0.172	0.287	2.243	1.44	0.790

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector TDM Q2										
* File 30, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 46.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2014										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.1 psi										
Weathered RVP: 10.1 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3306	0.4367	0.1488		0.0222	0.0003	0.0022	0.0537	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.409	0.802	0.651	0.764	1.002	0.178	0.296	2.314	1.46	0.738
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Rural minor collector TDM Q2
 * File 30, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 47.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.3291	0.4344	0.1480		0.0235	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.410 0.805 0.653 0.766 1.010 0.181 0.302 2.367 1.48 0.749

* * * * *
 * Rural local TDM Q2
 * File 30, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12
 Calendar Year: 2014
 Month: July
 Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0322	0.0003	0.0021	0.0780	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.409	0.802	0.651	0.764	1.003	0.178	0.296	2.318	1.46	0.782

* * * * *
* Urban interstate TDM Q2
* File 30, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0514	0.0003	0.0020	0.1248	0.0049	1.0000

Composite Emission Factors (g/ml):	0.424	0.826	0.672	0.787	1.074	0.225	0.376	3.103	1.71	0.987

* * * * *
 * Urban freeway TDM Q2
 * File 30, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0349	0.0003	0.0021	0.0847	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.414	0.811	0.659	0.773	1.031	0.191	0.319	2.649	1.53	0.831

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q2

* File 30, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0236	0.0003	0.0022	0.0573	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.399	0.787	0.639	0.749	0.952	0.163	0.272	2.127	1.41	0.720

* # # # # # # # # # # # # # # # # # #
 * Urban minor arterial TDM Q2
 * File 30, Run 1, Scenario 10.
 * # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low

Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3380	0.4465	0.1521		0.0161	0.0003	0.0023	0.0391	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.398	0.786	0.637	0.748	0.946	0.163	0.271	2.119	1.41	0.689

* * * * *
 * Urban collector TDM Q2
 * File 30, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0138	0.0003	0.0023	0.0334	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.397	0.784	0.636	0.746	0.939	0.162	0.270	2.108	1.40	0.678

* # # # # # # # # # # # # # # # #
* Urban local TDM Q2

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI14P3.IN (file 11, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q3  
* File 11, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0795	0.0002	0.0017	0.1931	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.279	0.562	0.470	0.538	1.130	0.241	0.402	3.311	1.49	1.057

* # # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q3
* File 11, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 50.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July

Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3076	0.4065	0.1385		0.0408	0.0003	0.0021	0.0991	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.270	0.546	0.456	0.523	1.070	0.191	0.319	2.644	1.28	0.681

* * * * *
 * Rural minor arterial TDM Q3
 * File 11, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.3134	0.4138	0.1410	0.513	1.026	0.0003	0.0021	0.0880	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.264	0.535	0.447	0.513	1.026	0.172	0.287	2.243	1.21	0.609

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector TDM Q3										
* File 11, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 46.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
M 48 Warning: there are no sales for vehicle class LDDT12										
Calendar Year: 2014										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.3306	0.4367	0.1488	0.0222	0.0003	0.0022	0.0537	0.0055	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.266	0.539	0.450	0.516	1.040	0.178	0.296	2.314	1.23	0.545
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q3
* File 11, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3291	0.4344	0.1480		0.0235	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.267	0.541	0.452	0.518	1.048	0.181	0.302	2.367	1.24	0.557

* * * * *
* Rural local TDM Q3
* File 11, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0322	0.0003	0.0021	0.0780	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.266	0.539	0.450	0.516	1.041	0.178	0.296	2.318	1.23	0.597

* * * * *
* Urban interstate TDM Q3
* File 11, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0514	0.0003	0.0020	0.1248	0.0049	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.277	0.558	0.467	0.535	1.115	0.225	0.376	3.103	1.44	0.813

* * * * *

* Urban freeway TDM Q3

* File 11, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment :

M581 Warning:

M 48 Warning:

M 48 Warning:

```
* * * * *
* Urban principle arterial TDM Q3
* File 11, Run 1, Scenario 9.
* * * * *
```

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0236	0.0003	0.0022	0.0573	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.260	0.526	0.439	0.504	0.988	0.163	0.272	2.127	1.19	0.531

* # # # # # # # # # # # # # # # # # #										
* Urban minor arterial TDM Q3										
* File 11, Run 1, Scenario 10.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan


```
M 48 Warning:
      there are no sales for vehicle class HDGV8b

M 48 Warning:
      there are no sales for vehicle class LDDT12
```

	Altitude:	Low
Minimum Temperature:	68.2	(F)
Maximum Temperature:	83.1	(F)
Minimum Rel. Hum.:	56.8	(%)
Maximum Rel. Hum.:	86.8	(%)
Barometric Pressure:	30.00	(in)
Nominal Fuel RVP:	7.8	psi
Weathered RVP:	7.7	psi
Fuel Sulfur Content:	30.	ppm

Exhaust	I/M Program:	Yes
Evap	I/M Program:	Yes
	ATP Program:	Yes
Reformulated Gas:		No

Composite Emission Factors (g/mi):

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local TDM Q3
* File 11, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							

VMT Distribution:	0.3288	0.4341	0.1479	0.0237	0.0003	0.0022	0.0576	0.0054	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.258	0.522	0.436	0.500	0.160	0.267	2.086	1.15	0.526

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI14P3N.IN (file 31, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q3  
* File 31, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0795	0.0002	0.0017	0.1931	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.380	0.728	0.594	0.694	1.130	0.241	0.402	3.311	1.49	1.155

* * * * *
* Rural principle arterial TDM Q3
* File 31, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 50.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3076	0.4065	0.1385		0.0408	0.0003	0.0021	0.0991	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.371	0.710	0.579	0.677	1.070	0.191	0.319	2.644	1.28	0.796

* #

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	68.2 (F)
Maximum Temperature:	83.1 (F)
Minimum Rel. Hum.:	56.8 (%)
Maximum Rel. Hum.:	86.8 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.7 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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Appendix C.3
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-----Composite Emission Factors (g/mi):-----									
Composite NOX :	0.365	0.698	0.569	0.665	1.026	0.172	0.287	2.243	1.21

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector TDM Q3									
* File 31, Run 1, Scenario 4.									
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural major collector mix and speeds									
M615 Comment:									
User supplied VMT mix.									
M583 Warning:									
The user supplied arterial average speed of 46.0									
will be used for all hours of the day. 100% of VMT									
has been assigned to the arterial/collector roadway									
type for all hours of the day and all vehicle types.									
M 48 Warning:									
there are no sales for vehicle class HDGV8b									
M 48 Warning:									
there are no sales for vehicle class LDDT12									
Calendar Year: 2014									
Month: July									
Altitude: Low									
Minimum Temperature: 68.2 (F)									
Maximum Temperature: 83.1 (F)									
Minimum Rel. Hum.: 56.8 (%)									
Maximum Rel. Hum.: 86.8 (%)									
Barometric Pressure: 30.00 (inches Hg)									
Nominal Fuel RVP: 7.8 psi									
Weathered RVP: 7.7 psi									
Fuel Sulfur Content: 30. ppm									
Exhaust I/M Program: No									
Evap I/M Program: No									
ATP Program: Yes									

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3306	0.4367	0.1488		0.0222	0.0003	0.0022	0.0537	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.367	0.702	0.572	0.669	1.040	0.178	0.296	2.314	1.23	0.668

* * * * *
 * Rural minor collector TDM Q3
 * File 31, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 47.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.3291	0.4344	0.1480		0.0235	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.368 0.704 0.574 0.671 1.048 0.181 0.302 2.367 1.24 0.679

* * * * *
 * Rural local TDM Q3
 * File 31, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0322	0.0003	0.0021	0.0780	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.367	0.702	0.572	0.669	1.041	0.178	0.296	2.318	1.23	0.715

* * * * *
* Urban interstate TDM Q3
* File 31, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0514	0.0003	0.0020	0.1248	0.0049	1.0000

Composite Emission Factors (g/ml):	0.378	0.723	0.590	0.690	1.115	0.225	0.376	3.103	1.44	0.924

* * * * *
 * Urban freeway TDM Q3
 * File 31, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0349	0.0003	0.0021	0.0847	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.371	0.710	0.579	0.677	1.070	0.191	0.319	2.649	1.28	0.763

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q3

* File 31, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0236	0.0003	0.0022	0.0573	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.360	0.689	0.561	0.656	0.988	0.163	0.272	2.127	1.19	0.653

* # # # # # # # # # # # # # # # # # #
 * Urban minor arterial TDM Q3
 * File 31, Run 1, Scenario 10.
 * # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0138	0.0003	0.0023	0.0334	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.359	0.686	0.558	0.653	0.974	0.162	0.270	2.108	1.17	0.608

* # # # # # # # # # # # # # # # #
* Urban local TDM Q3

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On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

GUI14P4.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: GUI14P4.IN (file 12, run 1).
*****
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q4
* File 12, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0796	0.0002	0.0017	0.1930	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.331	0.716	0.603	0.688	1.087	0.226	0.378	3.289	2.17	1.134

* # # # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q4
* File 12, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

 M581 Warning:
 The user supplied freeway average speed of 50.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

 M 48 Warning:
 there are no sales for vehicle class HDGV8b

 M 48 Warning:
 there are no sales for vehicle class LDDT12

 Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

 Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000

 VMT Distribution: 0.3076 0.4065 0.1385 0.0409 0.0021 0.0990 0.0051 1.0000

 Composite Emission Factors (g/mi):
 Composite NOX : 0.318 0.697 0.586 0.669 1.029 0.180 0.300 2.625 1.87 0.774

```

* * * * *
* Rural minor arterial TDM Q4
* File 12, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 44.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

VMT Distribution:  0.3134  0.4138  0.1410  0.574  0.656  0.987  0.162  0.003  0.0021  0.0879  0.0052  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :  0.308  0.684  0.574  0.656  0.987  0.162  0.003  0.0021  0.0879  0.0052  1.76  0.702
-----

```

```

* * * * *
* Rural major collector TDM Q4
* File 12, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

```

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3306	0.4367	0.1488	0.0222	0.0003	0.0022	0.0537	0.0055	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.311	0.688	0.578	0.660	1.001	0.167	0.279	2.296	1.79	0.646
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q4
* File 12, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3291	0.4344	0.1480		0.0235	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.313	0.691	0.580	0.663	1.008	0.171	0.284	2.349	1.81	0.657

* * * * *
* Rural local TDM Q4
* File 12, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0322	0.0003	0.0021	0.0780	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.311	0.688	0.578	0.660	1.001	0.167	0.279	2.300	1.79	0.693

* * * * *
* Urban interstate TDM Q4
* File 12, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0515	0.0003	0.0020	0.1247	0.0049	1.0000

Composite Emission Factors (g/ml):	0.327	0.711	0.599	0.683	1.073	0.212	0.354	3.081	2.10	0.903

* * * * *

* Urban freeway TDM Q4

* File 12, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

2218
Appendix C.3
December 18, 2009

```

* * * * *
* * Urban principle arterial TDM Q4
* * File 12, Run 1, Scenario 9.
* * * * *
*
* * * * *
* * Reading PM Gas Carbon ZML Levels
* * from the external data file PMGZML.CSV
*
* * * * *
* * Reading PM Gas Carbon DR1 Levels
* * from the external data file PMGDR1.CSV
*
* * * * *
* * Reading PM Gas Carbon DR2 Levels
* * from the external data file PMGDR2.CSV
*
* * * * *
* * Reading PM Diesel Zero Mile Levels
* * from the external data file PMDZML.CSV
*
* * * * *
* * Reading the First PM Deterioration Rates

```


The user supplied arterial average speed of 38.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDdT12

Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (in)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* * * * *
* * * * * Urban collector TDM Q4
* * * * * File 12, Run 1, Scenario 11.
* * * * *
* * * * *
* * * * * Reading PM Gas Carbon ZML Levels

```

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0138	0.0003	0.0023	0.0334	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.298	0.670	0.562	0.643	0.937	0.152	0.254	2.091	1.71	0.583

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local TDM Q4
* File 12, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution:	0.3288	0.4341	0.1479	0.0237	0.0003	0.0022	0.0576	0.0054	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.296	0.668	0.560	0.641	0.915	0.151	0.251	2.069	1.68
									0.621

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI14P4N.IN (file 32, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q4  
* File 32, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0796	0.0002	0.0017	0.1930	0.0043	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.474	0.934	0.783	0.896	1.087	0.226	0.378	3.289	2.17	1.267
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural principle arterial TDM Q4
* File 32, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2015
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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-----Composite Emission Factors (g/mi):-----										
Composite NOX :	0.447	0.897	0.750	0.859	0.987	0.162	0.270	2.225	1.76	0.858

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector TDM Q4										
* File 32, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 46.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2015										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3306	0.4367	0.1488		0.0222	0.0003	0.0022	0.0537	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.451	0.902	0.755	0.864	1.001	0.167	0.279	2.296	1.79	0.811
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q4
* File 32, Run 1, Scenario 5.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0235	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.453 0.904 0.757 0.867 1.008 0.171 0.284 2.349 1.81 0.822

* * * * *
 * Rural local TDM Q4
 * File 32, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.
 Altitude: Low

Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0322	0.0003	0.0021	0.0780	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.451	0.902	0.755	0.864	1.001	0.167	0.279	2.300	1.79	0.853

* * * * *
* Urban interstate TDM Q4
* File 32, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0515	0.0003	0.0020	0.1247	0.0049	1.0000

Composite Emission Factors (g/ml):	0.470	0.928	0.778	0.890	1.073	0.212	0.354	3.081	2.10	1.054

* * * * *
* Urban freeway TDM Q4
* File 32, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0349	0.0003	0.0021	0.0847	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.458	0.912	0.763	0.874	1.029	0.180	0.300	2.630	1.87	0.901

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q4

* File 32, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0236	0.0003	0.0022	0.0573	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.438	0.885	0.740	0.848	0.951	0.154	0.256	2.110	1.73	0.791

* # # # # # # # # # # # # # # # # # #
 * Urban minor arterial TDM Q4
 * File 32, Run 1, Scenario 10.
 * # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0138	0.0003	0.0023	0.0334	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.436	0.881	0.737	0.844	0.937	0.152	0.254	2.091	1.71	0.751

* # # # # # # # # # # # # # # # #
* Urban local TDM Q4

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan


```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI17P1.IN (file 13, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q1  
* File 13, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```


* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 50.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0408	0.0003	0.0021	0.0991	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.266	0.600	0.499	0.574	0.753	0.112	0.231	1.903	1.99	0.630

* * * * *
* Rural minor arterial TDM Q1
* File 13, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3097	0.4523	0.1542	0.0221	0.0003	0.0023	0.0537	0.0054	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.261	0.592	0.492	0.567	0.732	0.105	0.215	1.641	1.90	0.540
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q1
* File 13, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.

Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0235	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.262	0.594	0.494	0.569	0.738	0.107	0.219	1.675	1.92	0.548

* * * * *
* Rural local TDM Q1
* File 13, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0321	0.0003	0.0022	0.0782	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.261	0.592	0.492	0.567	0.732	0.105	0.215	1.642	1.90	0.571

* * * * *
* Urban interstate TDM Q1
* File 13, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0514	0.0002	0.0020	0.1249	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.274	0.612	0.510	0.586	0.785	0.132	0.272	2.220	2.23	0.721

* * * * *

* Urban freeway TDM Q1

* File 13, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment :

M581 Warning:

M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.:	75.1 (%)
Minimum Rel. Hum.:	15.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP:	14.0 psi
-------------------	----------

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap	I/M	Program:	Yes

ATP Program: Yes

Reformulated Gas: No

Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2950	0.4309	0.1468		0.0348	0.0003	0.0022	0.0849	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.266	0.600	0.499	0.574	0.753	0.112	0.231	1.906	1.99	0.609

[illegible]

* Urban principle arterial TDM Q1

* File 13, Run 1, Scenario 9.

[illegible]

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.csv

* Reading	PM	Gas	Carbon	DR2	Levels
-----------	----	-----	--------	-----	--------

** from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file `PMDZML.csv`

* Reading the First PM Deterioration Rates

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0137	0.0003	0.0024	0.0336	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.250	0.577	0.478	0.552	0.686	0.095	0.196	1.497	1.82	0.495

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local TDM Q1
* File 13, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution:	0.3080	0.4496	0.1533	0.0237	0.0003	0.0023	0.0575	0.0053	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.248	0.575	0.476	0.550	0.670	0.094	0.194	1.481	1.79
									0.519

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: GUI17PIN.IN (file 33, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q1
* File 33, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```


* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0795	0.0002	0.0018	0.1931	0.0042	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.434	0.863	0.709	0.824	0.795	0.142	0.291	2.366	2.31	1.030
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural principle arterial TDM Q1
* File 33, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2017
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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-----Composite Emission Factors (g/mi):										
Composite NOX :	0.410	0.829	0.679	0.791	0.722	0.101	0.208	1.591	1.87	0.751

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector TDM Q1										
* File 33, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 46.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2017										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 37.1 (F)										
Maximum Temperature: 53.6 (F)										
Minimum Rel. Hum.: 45.8 (%)										
Maximum Rel. Hum.: 75.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3097	0.4523	0.1542		0.0221	0.0003	0.0023	0.0537	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.414	0.834	0.683	0.796	0.732	0.105	0.215	1.641	1.90	0.726
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q1
* File 33, Run 1, Scenario 5.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3080	0.4500	0.1533		0.0235	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.415	0.836	0.685	0.798	0.738	0.107	0.219	1.675	1.92	0.733

* * * * *
 * Rural local TDM Q1
 * File 33, Run 1, Scenario 6.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.
 Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0321	0.0003	0.0022	0.0782	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.414	0.834	0.683	0.796	0.732	0.105	0.215	1.642	1.90	0.750

* * * * *
* Urban interstate TDM Q1
* File 33, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0514	0.0002	0.0020	0.1249	0.0048	1.0000

Composite Emission Factors (g/ml):	0.431	0.858	0.704	0.819	0.785	0.132	0.272	2.220	2.23	0.891

* * * * *
* Urban freeway TDM Q1
* File 33, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0348	0.0003	0.0022	0.0849	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.420	0.843	0.691	0.804	0.753	0.112	0.231	1.906	1.99	0.787

* # # # # # # # # # # # # # # # # #
* Urban principle arterial TDM Q1
* File 33, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000	(All)						
-------	-------	-------	-------	-------	--	--	--	--	--	--

VMT Distribution:	0.3080	0.4498	0.1533		0.0236	0.0003	0.0023	0.0574	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite NOX :	0.402	0.818	0.670	0.781	0.696	0.096	0.197	1.509	1.84	0.708

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial TDM Q1

* File 33, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0137	0.0003	0.0024	0.0336	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.400	0.815	0.667	0.778	0.686	0.095	0.196	1.497	1.82	0.684

* # # # # # # # # # # # # # # # #
* Urban local TDM Q1

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Composite Emission Factors (g/mi):												
Composite NOX :	0.398	0.813	0.665	0.776	0.670	0.094	0.194	1.481	1.79	0.701		

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI17P2.IN (file 14, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q2  
* File 14, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0793	0.0002	0.0018	0.1933	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.219	0.480	0.394	0.458	0.664	0.135	0.277	2.071	1.78	0.733

* # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q2
* File 14, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 50.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0407	0.0003	0.0021	0.0992	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.211	0.467	0.381	0.445	0.629	0.107	0.220	1.663	1.53	0.511

* * * * *
* Rural minor arterial TDM Q2
* File 14, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

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Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:	<6000	>6000	(All)							
-------	-------	-------	-------	--	--	--	--	--	--	--

VMT Distribution:	0.3097	0.4523	0.1542	0.0221	0.0003	0.0023	0.0537	0.0054	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.208	0.461	0.376	0.439	0.611	0.100	0.205	1.440	1.46	0.430
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q2
* File 14, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3080	0.4500	0.1533		0.0235	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.209	0.463	0.377	0.441	0.616	0.102	0.209	1.470	1.48	0.437

* * * * *
* Rural local TDM Q2
* File 14, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

M615 Comment: User supplied VMT mix.

MS91 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0513	0.0002	0.0020	0.1250	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.217	0.477	0.391	0.455	0.655	0.127	0.259	1.942	1.71	0.591

* * * * *

* Urban freeway TDM Q2

* File 14, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment :

M581 Warning:

M 48 Warning:

M 48 Warning:

Altitude: Low

Fuel Sulfur Content: 30. ppm

Reformulated Gas: No

VMT Distribution:	0.2950	0.4309	0.1468	0.0348	0.0003	0.0022	0.0849	0.0051	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

* Urban principle arterial TDM Q2

[illegible]

* from the external data file PMGZML.CSV

* from the external data file PMGDR1.CSV

* from the external data file PMGDR2.CSV

* from the external data file PMDZML.csv

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3080	0.4498	0.1533		0.0235	0.0003	0.0023	0.0575	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.201	0.450	0.366	0.429	0.581	0.092	0.188	1.324	1.41	0.418

* # # # # # # # # # # # # # # # # #

* Urban minor arterial TDM Q2

* File 14, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0137	0.0003	0.0024	0.0336	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.200	0.448	0.364	0.427	0.573	0.091	0.186	1.314	1.40	0.391

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local TDM Q2
* File 14, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							

VMT Distribution:	0.3080	0.4496	0.1533	0.0236	0.0003	0.0023	0.0576	0.0053	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.199	0.447	0.363	0.426	0.090	0.185	1.299	1.38	0.414

GUI17P2N.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: GUI17P2N.IN (file 34, run 1).
*****
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q2
* File 34, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2437	0.3561	0.1214	-----	0.0793	0.0002	0.0018	0.1933	0.0042	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.342	0.691	0.542	0.653	0.664	0.135	0.277	2.071	1.78	0.856
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural principle arterial TDM Q2
* File 34, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

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-----Composite Emission Factors (g/mi):-----										
Composite NOX :	0.325	0.663	0.517	0.626	0.603	0.097	0.198	1.396	1.44	0.608

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector TDM Q2										
* File 34, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 46.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2017										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.1 psi										
Weathered RVP: 10.1 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3097	0.4523	0.1542		0.0221	0.0003	0.0023	0.0537	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.327	0.667	0.521	0.630	0.611	0.100	0.205	1.440	1.46	0.583

* * * * *
 * Rural minor collector TDM Q2
 * File 34, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 47.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3080	0.4500	0.1533		0.0235	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.328 0.669 0.522 0.632 0.616 0.102 0.209 1.470 1.48 0.589

* * * * *
 * Rural local TDM Q2
 * File 34, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0321	0.0003	0.0022	0.0782	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.327	0.667	0.521	0.630	0.611	0.100	0.205	1.441	1.46	0.606

* * * * *
* Urban interstate TDM Q2
* File 34, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0513	0.0002	0.0020	0.1250	0.0048	1.0000

Composite Emission Factors (g/ml):	0.339	0.687	0.538	0.649	0.655	0.127	0.259	1.942	1.71	0.730

* * * * *
 * Urban freeway TDM Q2
 * File 34, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0348	0.0003	0.0022	0.0849	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.332	0.675	0.527	0.637	0.629	0.107	0.220	1.666	1.53	0.638

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q2

* File 34, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.3080	0.4498	0.1533		0.0235	0.0003	0.0023	0.0575	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.320	0.654	0.510	0.618	0.581	0.092	0.188	1.324	1.41	0.569
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial TDM Q2

* File 34, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low

Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1576		0.0160	0.0003	0.0024	0.0393	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.319	0.653	0.509	0.616	0.577	0.092	0.187	1.319	1.41	0.552

* * * * *
 * Urban collector TDM Q2
 * File 34, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0137	0.0003	0.0024	0.0336	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.318	0.652	0.507	0.615	0.573	0.091	0.186	1.314	1.40	0.546

* # # # # # # # # # # # # # # # #
* Urban local TDM Q2

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GUI17P3.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: GUI17P3.IN (file 15, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q3
* File 15, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0793	0.0002	0.0018	0.1933	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.197	0.421	0.347	0.403	0.689	0.135	0.277	2.071	1.49	0.702

* # # # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q3
* File 15, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 50.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0407	0.0003	0.0021	0.0992	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.191	0.409	0.336	0.391	0.652	0.107	0.220	1.663	1.28	0.474

* * * * *
 * Rural minor arterial TDM Q3
 * File 15, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.2934	0.4287	0.1461	0.383	0.625	0.097	0.198	1.396	0.0881	0.0051	1.0000

Composite Emission Factors (g/mi):											
Composite NOx :	0.187	0.401	0.328	0.383	0.625	0.097	0.198	1.396	0.0881	0.0051	0.427

* # # # # # # # # # # # # # # # #											
* Rural major collector TDM Q3											
* File 15, Run 1, Scenario 4.											
* # # # # # # # # # # # # # # # #											
* # # # # # # # # # # # # # # # #											
* Reading PM Gas Carbon ZML Levels											
* from the external data file PMGZML.CSV											
* Reading PM Gas Carbon DR1 Levels											
* from the external data file PMGDR1.CSV											
* Reading PM Gas Carbon DR2 Levels											
* from the external data file PMGDR2.CSV											
* Reading PM Diesel Zero Mile Levels											
* from the external data file PMDZML.CSV											
* Reading the First PM Deterioration Rates											
* from the external data file PMDDR1.CSV											
* Reading the Second PM Deterioration Rates											
* from the external data file PMDDR2.CSV											
* Rural major collector mix and speeds											
M615 Comment:	User supplied VMT mix.										
M583 Warning:	The user supplied arterial average speed of 46.0										
	will be used for all hours of the day. 100% of VMT										
	has been assigned to the arterial/collector roadway										
	type for all hours of the day and all vehicle types.										
M 48 Warning:	there are no sales for vehicle class HDGV8b										
M 48 Warning:	there are no sales for vehicle class LDDT12										
Calendar Year: 2017											
Month: July											
Altitude: Low											
Minimum Temperature: 68.2 (F)											
Maximum Temperature: 83.1 (F)											
Minimum Rel. Hum.: 56.8 (%)											
Maximum Rel. Hum.: 86.8 (%)											
Barometric Pressure: 30.00 (inches Hg)											
Nominal Fuel RVP: 7.8 psi											
Weathered RVP: 7.7 psi											
Fuel Sulfur Content: 30. ppm											
Exhaust I/M Program: Yes											

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000	(All)						
-------	-------	-------	-------	-------	--	--	--	--	--	--

VMT Distribution:	0.3097	0.4523	0.1542		0.0221	0.0003	0.0023	0.0537	0.0054	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
------------------------------------	--	--	--	--	--	--	--	--	--	--

Composite NOX :	0.188	0.404	0.331	0.385	0.634	0.100	0.205	1.440	1.23	0.391
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector TDM Q3
* File 15, Run 1, Scenario 5.
* * * * *

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* * * * *
* Rural minor collector mix and speeds
M615 Comment:

* * * * *
* User supplied VMT mix.
M583 Warning:

* * * * *
The user supplied arterial average speed of 47.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

* * * * *
M 48 Warning:
there are no sales for vehicle class HDGV8b

* * * * *
M 48 Warning:
there are no sales for vehicle class LDDT12

* * * * *
Calendar Year: 2017
Month: July
Altitude: Low

* * * * *
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0235	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.189	0.405	0.332	0.387	0.639	0.102	0.209	1.470	1.24	0.398

* * * * *
* Rural local TDM Q3
* File 15, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017

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```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

M615 Comment: User supplied VMT mix.

MS91 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0513	0.0002	0.0020	0.1250	0.0048	1.0000
Composite Emission Factors (g/ml):	0.195	0.418	0.344	0.400	0.680	0.127	0.259	1.942	1.44	0.555

* * * * *
* Urban freeway TDM Q3
* File 15, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment:

M581 Warning:

M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP:	7.8 psi
-------------------	---------

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap	I/M	Program:	Yes
------	-----	----------	-----

Evap	T/M	Program:	ICS
		ATP Program:	Yes

Reformulated Gas: No

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

	All	>6000	(All)
GWR:	<6000		

VMW Distribution:	0.2950	0.4309	0.1468	0.0348	0.0003	0.0022	0.0849	0.0051	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite Emission Factors (g/mi):					
Composite NOx:	0.191	0.409	0.336	0.391	0.652
					0.107
					0.220
					1.666
					1.28
					0.453

[illegible]

* Urban principle arterial TDM Q3

* File 15, Run 1, Scenario 9.

[illegible]

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0137	0.0003	0.0024	0.0336	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.183	0.392	0.320	0.374	0.594	0.091	0.186	1.314	1.17	0.351

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local TDM Q3
* File 15, Run 1, Scenario 12.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution:	0.3080	0.4496	0.1533	0.0236	0.0003	0.0023	0.0576	0.0053	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.183	0.391	0.319	0.373	0.580	0.090	0.185	1.299	1.15
									0.376

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI17P3N.IN (file 35, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q3  
* File 35, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0793	0.0002	0.0018	0.1933	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.305	0.606	0.477	0.573	0.689	0.135	0.277	2.071	1.49	0.810

* * * * *
* Rural principle arterial TDM Q3
* File 35, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	68.2 (F)
Maximum Temperature:	83.1 (F)
Minimum Rel. Hum.:	56.8 (%)
Maximum Rel. Hum.:	86.8 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.7 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.2934	0.4287	0.1461	0.0361	0.0003	0.0022	0.0881	0.0051	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

-----Composite Emission Factors (g/mi):-----										
Composite NOX :	0.293	0.581	0.455	0.549	0.625	0.097	0.198	1.396	1.21	0.554

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector TDM Q3										
* File 35, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 46.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2017										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3097	0.4523	0.1542		0.0221	0.0003	0.0023	0.0537	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.294	0.585	0.458	0.552	0.634	0.100	0.205	1.440	1.23	0.525

* * * * *
 * Rural minor collector TDM Q3
 * File 35, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 47.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0235	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.295	0.586	0.460	0.554	0.639	0.102	0.209	1.470	1.24	0.532

* * * * *
 * Rural local TDM Q3
 * File 35, Run 1, Scenario 6.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0321	0.0003	0.0022	0.0782	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.294	0.585	0.458	0.552	0.635	0.100	0.205	1.441	1.23	0.550

* * * * *
* Urban interstate TDM Q3
* File 35, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0513	0.0002	0.0020	0.1250	0.0048	1.0000

Composite Emission Factors (g/ml):	0.303	0.602	0.474	0.570	0.680	0.127	0.259	1.942	1.44	0.677

* * * * *
 * Urban freeway TDM Q3
 * File 35, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0348	0.0003	0.0022	0.0849	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.298	0.591	0.464	0.559	0.652	0.107	0.220	1.666	1.28	0.582

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q3

* File 35, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3080	0.4498	0.1533		0.0235	0.0003	0.0023	0.0575	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.289	0.573	0.449	0.542	0.603	0.092	0.188	1.324	1.19	0.513

* # # # # # # # # # # # # # # # # # #
 * Urban minor arterial TDM Q3
 * File 35, Run 1, Scenario 10.
 * # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 38.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low

Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDDT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1576		0.0160	0.0003	0.0024	0.0393	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.289	0.572	0.448	0.541	0.599	0.092	0.187	1.319	1.18	0.495

* * * * *
 * Urban collector TDM Q3
 * File 35, Run 1, Scenario 11.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3192	0.4664	0.1589		0.0137	0.0003	0.0024	0.0336	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.288	0.571	0.447	0.539	0.594	0.091	0.186	1.314	1.17	0.489

* # # # # # # # # # # # # # # # #
* Urban local TDM Q3

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

2327
Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0796	0.0002	0.0018	0.1930	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.231	0.526	0.445	0.505	0.690	0.113	0.261	1.952	2.17	0.739

* # # # # # # # # # # # # # # # # # # #
* Rural principle arterial TDM Q4
* File 16, Run 1, Scenario 2.
* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0409	0.0003	0.0021	0.0990	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.222	0.511	0.431	0.491	0.653	0.090	0.207	1.561	1.87	0.532

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial TDM Q4
* File 16, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							

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ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0222	0.0003	0.0023	0.0536	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.217	0.505	0.425	0.484	0.635	0.083	0.192	1.368	1.79	0.459

* # # # # # # # # # # # # # # # #										
* Rural minor collector TDM Q4										
* File 16, Run 1, Scenario 5.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 47.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2018										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 44.0 (F)										
Maximum Temperature: 55.9 (F)										
Minimum Rel. Hum.: 61.6 (%)										
Maximum Rel. Hum.: 85.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										

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Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

M615 Comment :

The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class LDDT12

Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0322	0.0003	0.0022	0.0781	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.217	0.505	0.425	0.484	0.636	0.083	0.192	1.368	1.79	0.485

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban interstate TDM Q4										
* File 16, Run 1, Scenario 7.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 56.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0515	0.0002	0.0020	0.1248	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.229	0.522	0.441	0.502	0.681	0.106	0.244	1.829	2.10	0.608

* * * * *
* Urban freeway TDM Q4
* File 16, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

[illegible]

Exhaust I/M Program: Yes

Evap	I/M Program:	Yes
------	--------------	-----

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDGT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.2950	0.4309	0.1468	0.0349	0.0003	0.0022	0.0848	0.0051	1.0000
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Composite Emission Factors (g/mi):

Composite NOx :	0.222	0.511	0.431	0.491	0.654	0.207	1.564	1.87	0.515
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* Urban principle arterial TDM 04

* File 16, Run 1, Scenario 9.

[illegible]

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.csv

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.csv

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4498	0.1533		0.0236	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.210	0.493	0.414	0.473	0.604	0.077	0.177	1.256	1.73	0.446
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban minor arterial TDM Q4

* File 16, Run 1, Scenario 10.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0161	0.0003	0.0023	0.0392	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.209	0.492	0.413	0.472	0.600	0.076	0.176	1.251	1.72	0.427

* * * * *
* Urban collector TDM Q4
* File 16, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.208	0.491	0.412	0.471	0.595	0.076	0.175	1.246	1.71	0.420

* #

Calendar Year:	2018
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

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```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI17P4N.IN (file 36, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
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M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q4  
* File 36, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0796	0.0002	0.0018	0.1930	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.381	0.764	0.632	0.731	0.690	0.113	0.261	1.952	2.17	0.883

* * * * *
* Rural principle arterial TDM Q4
* File 36, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year: 2018												
Month: Jan.												
Altitude: Low												
Minimum Temperature: 44.0 (F)												
Maximum Temperature: 55.9 (F)												
Minimum Rel. Hum.: 61.6 (%)												
Maximum Rel. Hum.: 85.1 (%)												
Barometric Pressure: 30.00 (inches Hg)												
Nominal Fuel RVP: 14.0 psi												
Weathered RVP: 14.0 psi												
Fuel Sulfur Content: 30. ppm												
Exhaust I/M Program: No												
Evap I/M Program: No												
ATP Program: Yes												
Reformulated Gas: No												
Vehicle Type:		LDGV	LDGT12	LDGT34	LDGT	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:			<6000	>6000	(All)							
VMT Distribution:		0.2881	0.4210	0.1436			0.0409	0.0003	0.0021	0.0990	0.0050	1.0000

Composite Emission Factors (g/mi):												
Composite NOX :		0.369	0.745	0.615	0.712		0.653	0.090	0.207	1.561	1.87	0.699

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Calendar Year:	2018
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.2934	0.4287	0.1461	0.0363	0.0003	0.0022	0.0879	0.0051	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

```

-----
Composite Emission Factors (g/mi):
Composite NOx :    0.360    0.733    0.604    0.700    0.626    0.081    0.186    1.325    1.76    0.657
-----

* * * * *
* Rural major collector TDM Q4
* File 36, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3097	0.4523	0.1542		0.0222	0.0003	0.0023	0.0536	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.363	0.737	0.607	0.704	0.635	0.083	0.192	1.368	1.79	0.637

* * * * *
 * Rural minor collector TDM Q4
 * File 36, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 47.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3080	0.4500	0.1533		0.0235	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.364	0.739	0.609	0.706	0.640	0.085	0.196	1.396	1.81	0.643

* * * * *
 * Rural local TDM Q4
 * File 36, Run 1, Scenario 6.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low

Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0322	0.0003	0.0022	0.0781	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.363	0.737	0.607	0.704	0.636	0.083	0.192	1.368	1.79	0.656

* * * * *
* Urban interstate TDM Q4
* File 36, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0515	0.0002	0.0020	0.1248	0.0048	1.0000

Composite Emission Factors (g/ml):	0.378	0.759	0.627	0.726	0.681	0.106	0.244	1.829	2.10	0.771

* * * * *
 * Urban freeway TDM Q4
 * File 36, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 50.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0349	0.0003	0.0022	0.0848	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.369	0.745	0.615	0.712	0.654	0.090	0.207	1.564	1.87	0.686

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q4

* File 36, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.3080	0.4498	0.1533		0.0236	0.0003	0.0023	0.0574	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.353	0.723	0.595	0.690	0.604	0.077	0.177	1.256	1.73	0.621
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial TDM Q4

* File 36, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.351	0.720	0.592	0.687	0.595	0.076	0.175	1.246	1.71	0.601

* # # # # # # # # # # # # # # # #
* Urban local TDM Q4

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

2357
Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan


```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: GUI21P1.IN (file 1, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q1
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external data file: TECH12.D

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
 * from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
 * from the external data file PMNH3SDR.D

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2317	0.3652	0.1244		0.0796	0.0002	0.0019	0.1928	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.177	0.434	0.405	0.426	0.526	0.079	0.207	1.298	2.27	0.552

* * * * *
 * Rural principle arterial TDM Q1
 * File 1, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VTM Distribution:	0.2738	0.4318	0.1472	0.414	0.498	0.064	0.0022	0.0989	0.0050	1.0000
-------------------	--------	--------	--------	-------	-------	-------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.169	0.422	0.392	0.414	0.498	0.064	0.0022	0.0989	0.0050	1.0000
-----------------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------

* * * * *

* Rural minor arterial TDM Q1

* File 1, Run 1, Scenario 3.

* * * * *

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* * * * *

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* * * * *

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* * * * *

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* * * * *

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* * * * *

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* * * * *

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.2787	0.4396	0.1499	0.0363	0.0022	0.0879	0.0051	1.0000		
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--	--

Composite Emission Factors (g/mi):

Composite NOX :	0.167	0.417	0.388	0.410	0.487	0.060	0.158	0.946	1.90	0.399
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural major collector TDM Q1
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1581		0.0222	0.0003	0.0024	0.0536	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.166	0.416	0.386	0.408	0.483	0.059	0.155	0.925	1.88	0.373

* * * * *
* Rural minor collector TDM Q1
* File 1, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0236	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.167	0.417	0.388	0.410	0.487	0.060	0.158	0.946	1.90	0.378

* * * * *
* Rural local TDM Q1
* File 1, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1522		0.0322	0.0003	0.0023	0.0780	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.166	0.416	0.386	0.408	0.483	0.059	0.155	0.926	1.88	0.389

* * * * *
* Urban interstate TDM Q1
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

M581 Warning:

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.

Altitude: Low

Minimum Temperature: 37.1

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap	I/M Program:	Yes

ATP Program: Yes

Reformulated Gas: No

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:		<6000	>6000							

VMT Distribution:	0.2620	0.4135	0.1410	0.0516	0.0002	0.0021	0.1248	0.0048	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):									
Composite NOX :	0.175	0.431	0.401	0.423	0.518	0.193	1.209	2.19	0.469

[illegible]

* Urban freeway TDM Q1

* File 1, Run 1, Scenario 8.

	#
	#
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O	#
C	#
F	#
R	#
T	#
I	#
O	#
D	#
/	#
H	#
E	#
N	#
A	#
L	*

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading	PM	Gas	Carbon	DR2	Levels
-----------	----	-----	--------	-----	--------

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* from the external data file `PMDZML.csv`

* Reading the First PM Deterioration Rates

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 38.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0161	0.0003	0.0024	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.160	0.406	0.376	0.399	0.459	0.055	0.144	0.861	1.83	0.353

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector TDM Q1
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							

VTM Distribution:	0.3031	0.4782	0.1631	0.0138	0.0003	0.0024	0.0336	0.0055	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.159	0.405	0.375	0.398	0.456	0.144	0.859	1.82	0.349

* * * * *
 * Urban local TDM Q1
 * File 1, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year:	2021
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes

ATP Program:		Yes								
Reformulated Gas:		No								
Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2923	0.4612	0.1573	0.0237	0.0003	0.0023	0.0576	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.158	0.404	0.374	0.396	0.445	0.054	0.142	0.849	1.79	0.360

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI21PIN.IN (file 1, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q1  
* File 1, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```


Calendar Year:	2021
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.2738	0.4318	0.1472	0.0409	0.0002	0.0022	0.0989	0.0050	1.0000
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Composite Emission Factors (g/mi):
Composite NOx : 0.334 0.695 0.598 0.670 0.498 0.064 0.167 1.048 1.97 0.614

* * * * *
* Rural minor arterial TDM Q1
* File 1, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0363	0.0003	0.0022	0.0879	0.0051	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.330	0.689	0.592	0.664	0.487	0.060	0.158	0.946	1.90	0.594
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Rural major collector TDM Q1
 * File 1, Run 1, Scenario 4.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2941	0.4639	0.1581		0.0222	0.0003	0.0024	0.0536	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.328 0.687 0.590 0.662 0.483 0.059 0.155 0.925 1.88 0.579

* * * * *
 * Rural minor collector TDM Q1
 * File 1, Run 1, Scenario 5.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low

Minimum Temperature: 37.1 (F)
Maximum Temperature: 53.6 (F)
Minimum Rel. Hum.: 45.8 (%)
Maximum Rel. Hum.: 75.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0236	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.330	0.689	0.592	0.664	0.487	0.060	0.158	0.946	1.90	0.584

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural local TDM Q1	#	#	#	#	#	#	#	#	#	#
* File 1, Run 1, Scenario 6.	#	#	#	#	#	#	#	#	#	#
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1522		0.0322	0.0003	0.0023	0.0780	0.0052	1.0000

Composite Emission Factors (g/ml):	0.328	0.687	0.590	0.662	0.483	0.059	0.155	0.926	1.88	0.588

* * * * *
 * Urban interstate TDM Q1
 * File 1, Run 1, Scenario 7.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0516	0.0002	0.0021	0.1248	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.342	0.708	0.609	0.683	0.518	0.073	0.193	1.209	2.19	0.657

* # # # # # # # # # # # # # # # # # #

* Urban freeway TDM Q1

* File 1, Run 1, Scenario 8.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.

Altitude: Low

Minimum Temperature: 37.1 (F)

Maximum Temperature: 53.6 (F)

Minimum Rel. Hum.: 45.8 (%)

Maximum Rel. Hum.: 75.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

VMT Distribution:	0.2801	0.4419	0.1507	>6000	0.0350	0.0003	0.0022	0.0847	0.0051	1.0000
-------------------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.337	0.699	0.602	0.674	0.504	0.067	0.175	1.096	2.03	0.615
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q1

* File 1, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 37.1 (F)
 Maximum Temperature: 53.6 (F)
 Minimum Rel. Hum.: 45.8 (%)
 Maximum Rel. Hum.: 75.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2924	0.4613	0.1573		0.0237	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.321	0.676	0.580	0.651	0.463	0.055	0.145	0.866	1.84	0.568

* * * * *
 * Urban minor arterial TDM Q1
 * File 1, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

Calendar Year:	2021
Month:	Jan.
Altitude:	Low
Minimum Temperature:	37.1 (F)
Maximum Temperature:	53.6 (F)
Minimum Rel. Hum.:	45.8 (%)
Maximum Rel. Hum.:	75.1 (%)
Barometric Pressure:	30.00 (in)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* # # # # # # # # # # # # #
* Urban collector TDM Q1

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

2386
Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2923	0.4612	0.1573	0.0237	0.0003	0.0023	0.0576	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOx :	0.317	0.671	0.576	0.647	0.445	0.054	0.142	0.849	1.79	0.562

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI21P2.IN (file 1, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q2  
* File 1, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2317	0.3652	0.1244		0.0794	0.0002	0.0019	0.1930	0.0042	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.143	0.345	0.315	0.337	0.447	0.076	0.201	1.179	1.75	0.469

* * * * *
 * Rural principle arterial TDM Q2
 * File 1, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
 GVWR: <6000 >6000
 HDGV HDDV LDDT HDDV MC All Veh

VTM Distribution:	0.2738	0.4318	0.1472	0.327	0.423	0.061	0.0022	0.0990	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.138	0.335	0.305	0.327	0.423	0.061	0.0022	0.0990	0.0050	0.347

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural minor arterial TDM Q2										
* File 1, Run 1, Scenario 3.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 58.5 (F)										
Maximum Temperature: 77.1 (F)										
Minimum Rel. Hum.: 44.3 (%)										
Maximum Rel. Hum.: 82.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.1 psi										
Weathered RVP: 10.1 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2787	0.4396	0.1499	0.0362	0.0003	0.0022	0.0880	0.0051	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.136	0.331	0.301	0.324	0.415	0.058	0.153	0.862	1.46	0.327

* * * * *
* Rural major collector TDM Q2
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1581		0.0221	0.0003	0.0024	0.0537	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.135	0.330	0.299	0.322	0.411	0.057	0.150	0.843	1.44	0.303

* * * * *
* Rural minor collector TDM Q2
* File 1, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2926	0.4614	0.1574		0.0235	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.136	0.331	0.301	0.324	0.414	0.058	0.153	0.862	1.46	0.307

* * * * *
* Rural local TDM Q2
* File 1, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1522		0.0321	0.0003	0.0023	0.0781	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.135	0.330	0.299	0.322	0.411	0.057	0.150	0.844	1.44	0.318

* * * * *
* Urban interstate TDM Q2
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

M581 Warning:

M 48 Warning:

M 48 Warning:

th

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* * * * *
* Urban freeway TDM Q2
* File 1, Run 1, Scenario 8.
* * * * *
```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 38.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0161	0.0003	0.0024	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.131	0.322	0.291	0.314	0.391	0.053	0.140	0.785	1.41	0.284

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector TDM Q2
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							

Calendar Year:	2021
Month:	July
Altitude:	Low
Minimum Temperature:	58.5 (F)
Maximum Temperature:	77.1 (F)
Minimum Rel. Hum.:	44.3 (%)
Maximum Rel. Hum.:	82.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.1 psi
Weathered RVP:	10.1 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes

ATP Program:		Yes								
Reformulated Gas:		No								
Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2923	0.4612	0.1573	0.0237	0.0003	0.0023	0.0576	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.130	0.320	0.289	0.312	0.379	0.053	0.138	0.774	1.38	0.292

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI21P2N.IN (file 1, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q2  
* File 1, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```



```

-----Composite Emission Factors (g/mi):-----
Composite NOx : 0.266 0.565 0.460 0.538 0.423 0.061 0.162 0.952 1.51 0.504
-----
* * * * *
* Rural minor arterial TDM Q2
* File 1, Run 1, Scenario 3.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0362	0.0003	0.0022	0.0880	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.263	0.560	0.456	0.534	0.415	0.058	0.153	0.862	1.46	0.487

* * * * *
 * Rural major collector TDM Q2
 * File 1, Run 1, Scenario 4.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VTM Distribution:	0.2941	0.4639	0.1581		0.0221	0.0003	0.0024	0.0537	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.262	0.558	0.454	0.532	0.411	0.057	0.150	0.843	1.44	0.470

* * * * *
 * Rural minor collector TDM Q2
 * File 1, Run 1, Scenario 5.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low

Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2926	0.4614	0.1574		0.0235	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.263	0.560	0.456	0.534	0.414	0.058	0.153	0.862	1.46	0.474

* * * * *
* Rural local TDM Q2
* File 1, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.5 (F)
Maximum Temperature: 77.1 (F)
Minimum Rel. Hum.: 44.3 (%)
Maximum Rel. Hum.: 82.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.1 psi
Weathered RVP: 10.1 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1522		0.0321	0.0003	0.0023	0.0781	0.0052	1.0000

Composite Emission Factors (g/ml):	0.262	0.558	0.454	0.532	0.411	0.057	0.150	0.844	1.44	0.480

* * * * *
* Urban interstate TDM Q2
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0515	0.0002	0.0021	0.1249	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.272	0.575	0.470	0.549	0.441	0.071	0.187	1.098	1.68	0.544

* # # # # # # # # # # # # # # # # # #

* Urban freeway TDM Q2

* File 1, Run 1, Scenario 8.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July

Altitude: Low

Minimum Temperature: 58.5 (F)

Maximum Temperature: 77.1 (F)

Minimum Rel. Hum.: 44.3 (%)

Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.1 psi

Weathered RVP: 10.1 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.2801	0.4419	0.1507		0.0349	0.0003	0.0022	0.0848	0.0051	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.268	0.569	0.463	0.542	0.429	0.064	0.169	0.995	1.56	0.504
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q2

* File 1, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low

Minimum Temperature: 58.5 (F)
 Maximum Temperature: 77.1 (F)
 Minimum Rel. Hum.: 44.3 (%)
 Maximum Rel. Hum.: 82.0 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.1 psi
 Weathered RVP: 10.1 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2924	0.4613	0.1573		0.0237	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.257	0.549	0.446	0.523	0.394	0.054	0.141	0.790	1.41	0.461

* * * * *
 * Urban minor arterial TDM Q2
 * File 1, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* File 1, Run 1, Scenario 11.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 *
 * Urban collector mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 37.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year:	2021	LDGT34	LDGT12	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
Month:	July	<6000	<6000		(All)						
Altitude:	Low	>6000	>6000								
Minimum Temperature:	58.5 (F)										
Maximum Temperature:	77.1 (F)										
Minimum Rel. Hum.:	44.3 (%)										
Maximum Rel. Hum.:	82.0 (%)										
Barometric Pressure:	30.00 (inches Hg)										
Nominal Fuel RVP:	10.1 psi										
Weathered RVP:	10.1 psi										
Fuel Sulfur Content:	30. ppm										
Exhaust I/M Program:	No										
Evap I/M Program:	No										
ATP Program:	Yes										
Reformulated Gas:	No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:				(All)							
VMT Distribution:	0.3031	0.4782	0.1631			0.0138	0.0003	0.0024	0.0336	0.0055	1.0000

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2923	0.4612	0.1573	0.0237	0.0003	0.0023	0.0576	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOx :	0.256	0.545	0.442	0.519	0.379	0.053	0.138	0.774	1.38	0.457

```
*****  
** MOBILE6.2.O3 (24-Sep-2003)  
** Input file: GUI2LP3.IN (file 1, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q3  
* File 1, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2317	0.3652	0.1244		0.0794	0.0002	0.0019	0.1930	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.130	0.304	0.278	0.297	0.464	0.076	0.201	1.179	1.46	0.447

* * * * *
 * Rural principle arterial TDM Q3
 * File 1, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VTM Distribution:	0.2738	0.4318	0.1472	0.288	0.439	0.061	0.0022	0.0990	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.126	0.295	0.269	0.288	0.439	0.061	0.0022	0.0990	0.0050	0.320

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural minor arterial TDM Q3										
* File 1, Run 1, Scenario 3.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 68.2 (F)										
Maximum Temperature: 83.1 (F)										
Minimum Rel. Hum.: 56.8 (%)										
Maximum Rel. Hum.: 86.8 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.7 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.2787	0.4396	0.1499	0.0362	0.0003	0.0022	0.0880	0.0051	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.125	0.291	0.266	0.285	0.430	0.058	0.153	0.862	1.23	0.301
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural major collector TDM Q3
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2941	0.4639	0.1581		0.0221	0.0003	0.0024	0.0537	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.124	0.290	0.264	0.284	0.427	0.057	0.150	0.843	1.21	0.275

* * * * *
 * Rural minor collector TDM Q3
 * File 1, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 M 48 Warning: there are no sales for vehicle class HDGV8b
 there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0235	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.125	0.291	0.266	0.285	0.430	0.058	0.153	0.862	1.23	0.279

* * * * *
* Rural local TDM Q3
* File 1, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1522		0.0321	0.0003	0.0023	0.0781	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.124	0.290	0.264	0.284	0.427	0.057	0.150	0.844	1.21	0.291

* * * * *
* Urban interstate TDM Q3
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment :

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2620	0.4135	0.1410		0.0515	0.0002	0.0021	0.1249	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.129	0.301	0.276	0.295	0.458	0.071	0.187	1.098	1.41	0.365

* # # # # # # # # # # # # # # # # # #
* Urban freeway TDM Q3
* File 1, Run 1, Scenario 8.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 38.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0161	0.0003	0.0024	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.121	0.283	0.257	0.277	0.406	0.053	0.140	0.785	1.18	0.256

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector TDM Q3
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VTM Distribution:	0.3031	0.4782	0.1631	0.0138	0.0003	0.0024	0.0336	0.0055	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.121	0.282	0.256	0.276	0.403	0.139	0.783	1.17	0.252

* # # # # # # # # # # # # # # # # # # #									
* Urban local TDM Q3									
* File 1, Run 1, Scenario 12.									
* # # # # # # # # # # # # # # # # # # #									
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Urban local mix and speeds									
M615 Comment:									
User supplied VMT mix.									
M583 Warning:									
The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:									
there are no sales for vehicle class HDGV8b									
M 48 Warning:									
there are no sales for vehicle class LDDT12									

Calendar Year:	2021
Month:	July
Altitude:	Low
Minimum Temperature:	68.2 (F)
Maximum Temperature:	83.1 (F)
Minimum Rel. Hum.:	56.8 (%)
Maximum Rel. Hum.:	86.8 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.7 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes

ATP Program:		Yes								
Reformulated Gas:		No								
Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2923	0.4612	0.1573	0.0237	0.0003	0.0023	0.0576	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.121	0.281	0.256	0.275	0.393	0.053	0.138	0.774	1.15	0.266

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: GUI21P3N.IN (file 1, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: GUIAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.996    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate TDM Q3  
* File 1, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```


Calendar Year:	2021
Month:	July
Altitude:	Low
Minimum Temperature:	62.2 (F)
Maximum Temperature:	83.1 (F)
Minimum Rel. Hum.:	56.8 (%)
Maximum Rel. Hum.:	86.8 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.7 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.2738	0.4318	0.1472	0.0408	0.0002	0.0022	0.0990	0.0050	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

-----Composite Emission Factors (g/mi):-----										
Composite NOX :	0.240	0.496	0.406	0.473	0.439	0.061	0.162	0.952	1.27	0.459

* # # # # # # # # # # # # # # # #										
* Rural minor arterial TDM Q3										
* File 1, Run 1, Scenario 3.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 46.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
	Calendar Year:	2021								
	Month:	July								
	Altitude:	Low								
	Minimum Temperature:	68.2 (F)								
	Maximum Temperature:	83.1 (F)								
	Minimum Rel. Hum.:	56.8 (%)								
	Maximum Rel. Hum.:	86.8 (%)								
	Barometric Pressure:	30.00 (inches Hg)								
	Nominal Fuel RVP:	7.8 psi								
	Weathered RVP:	7.7 psi								
	Fuel Sulfur Content:	30. ppm								
	Exhaust I/M Program:	No								
	Evap I/M Program:	No								
	ATP Program:	Yes								

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2787	0.4396	0.1499	0.0362	0.0003	0.0022	0.0880	0.0051	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.238	0.492	0.402	0.469	0.430	0.058	0.153	0.862	1.23	0.441

* * * * *
* Rural major collector TDM Q3
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.2941	0.4639	0.1581		0.0221	0.0003	0.0024	0.0537	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.238 0.490 0.401 0.467 0.427 0.057 0.150 0.843 1.21 0.422

* * * * *
 * Rural minor collector TDM Q3
 * File 1, Run 1, Scenario 5.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low

Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2926	0.4614	0.1574		0.0235	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.238	0.492	0.402	0.469	0.430	0.058	0.153	0.862	1.23	0.426

* * * * *
* Rural local TDM Q3
* File 1, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 68.2 (F)
Maximum Temperature: 83.1 (F)
Minimum Rel. Hum.: 56.8 (%)
Maximum Rel. Hum.: 86.8 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.7 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1522		0.0321	0.0003	0.0023	0.0781	0.0052	1.0000
Composite Emission Factors (g/ml):	0.238	0.490	0.401	0.467	0.427	0.057	0.150	0.844	1.21	0.433

* * * * *
* Urban interstate TDM Q3
* File 1, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0515	0.0002	0.0021	0.1249	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.244	0.505	0.415	0.482	0.458	0.071	0.187	1.098	1.41	0.499

* # # # # # # # # # # # # # # # # # #

* Urban freeway TDM Q3

* File 1, Run 1, Scenario 8.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July

Altitude: Low

Minimum Temperature: 68.2 (F)

Maximum Temperature: 83.1 (F)

Minimum Rel. Hum.: 56.8 (%)

Maximum Rel. Hum.: 86.8 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.7 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.2801	0.4419	0.1507		0.0349	0.0003	0.0022	0.0848	0.0051	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.241	0.499	0.409	0.476	0.446	0.064	0.169	0.995	1.31	0.457
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* # # # # # # # # # # # # # # # # # # #

* Urban principle arterial TDM Q3

* File 1, Run 1, Scenario 9.

* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 68.2 (F)
 Maximum Temperature: 83.1 (F)
 Minimum Rel. Hum.: 56.8 (%)
 Maximum Rel. Hum.: 86.8 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.7 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2924	0.4613	0.1573		0.0237	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.234	0.482	0.393	0.459	0.409	0.054	0.141	0.790	1.19	0.414

* # # # # # # # # # # # # # # # # # #
 * Urban minor arterial TDM Q3
 * File 1, Run 1, Scenario 10.
 * # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2923	0.4612	0.1573	---	0.0237	0.0003	0.0023	0.0576	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.234	0.479	0.391	0.457	0.393	0.053	0.138	0.774	1.15	0.411

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* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2317	0.3652	0.1244		0.0796	0.0002	0.0019	0.1928	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.157	0.386	0.367	0.381	0.460	0.070	0.196	1.149	2.14	0.490

* * * * *
 * Rural principle arterial TDM Q4
 * File 1, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 49.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VTM Distribution:	0.2738	0.4318	0.1472	0.369	0.435	0.056	0.158	0.931	0.0050	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.150	0.374	0.355	0.369	0.435	0.056	0.158	0.931	1.85	0.375
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* * * * *
 * Rural minor arterial TDM Q4
 * File 1, Run 1, Scenario 3.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2787	0.4396	0.1499	0.0363	0.0003	0.0022	0.0879	0.0051	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.148	0.370	0.351	0.365	0.426	0.053	0.149	0.835	1.79	0.355

* * * * *
* Rural major collector TDM Q4
* File 1, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2941	0.4639	0.1581	0.0222	0.0003	0.0024	0.0536	0.0054	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.147	0.369	0.349	0.364	0.423	0.052	0.146	0.816	1.77	0.332

* * * * *
* Rural minor collector TDM Q4
* File 1, Run 1, Scenario 5.
* * * * *

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0236	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.148	0.370	0.351	0.365	0.426	0.053	0.149	0.835	1.79	0.337

* * * * *
* Rural local TDM Q4
* File 1, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1522		0.0322	0.0003	0.0023	0.0780	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.147	0.369	0.349	0.364	0.423	0.052	0.146	0.817	1.77	0.346

* * * * *
* Urban interstate TDM Q4
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment:

M581 Warning:

M 48 Warning:

M 48 Warning:

Month: Jan.

Reformulated Gas: No

GVWR:

VMT Distribution:

Composite Emission F

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Reading PM Gas Carb

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Reading PM Diesel 2

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 38.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3006	0.4743	0.1617		0.0161	0.0003	0.0024	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.141	0.360	0.340	0.355	0.402	0.049	0.137	0.761	1.72	0.314

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* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban collector TDM Q4
* File 1, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VTM Distribution:	0.3031	0.4782	0.1631	0.0138	0.0003	0.0024	0.0336	0.0055	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.141	0.359	0.339	0.354	0.399	0.136	0.759	1.71	0.310

* * * * *
 * Urban local TDM Q4
 * File 1, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year:	2022
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes

ATP Program:		Yes								
Reformulated Gas:		No								
Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2923	0.4612	0.1573	0.0237	0.0003	0.0023	0.0576	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.140	0.357	0.337	0.352	0.389	0.048	0.135	0.751	1.68	0.320

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: GUI21P4N.IN (file 1, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: GUIAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.996      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate TDM Q4
* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```


Calendar Year:	2022
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.2738	0.4318	0.1472	0.0409	0.0002	0.0022	0.0989	0.0050	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

```

-----
Composite Emission Factors (g/mi):
Composite NOx :    0.305    0.632    0.549    0.611    0.435    0.056    0.158    0.931    1.85    0.557
-----

* * * * *
* Rural minor arterial TDM Q4
* File 1, Run 1, Scenario 3.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 46.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0363	0.0003	0.0022	0.0879	0.0051	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.302	0.626	0.544	0.605	0.426	0.053	0.149	0.835	1.79	0.539
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural major collector TDM Q4
* File 1, Run 1, Scenario 4.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2941	0.4639	0.1581	0.0222	0.0003	0.0024	0.0536	0.0054	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.300	0.624	0.542	0.603	0.423	0.052	0.146	0.816	1.77	0.527

* * * * *
 * Rural minor collector TDM Q4
 * File 1, Run 1, Scenario 5.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning: The user supplied arterial average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
 M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Minimum Temperature: 44.0 (F)
Maximum Temperature: 55.9 (F)
Minimum Rel. Hum.: 61.6 (%)
Maximum Rel. Hum.: 85.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2926	0.4614	0.1574		0.0236	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.302	0.626	0.544	0.605	0.426	0.053	0.149	0.835	1.79	0.530

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural local TDM Q4	#	#	#	#	#	#	#	#	#	#
* File 1, Run 1, Scenario 6.	#	#	#	#	#	#	#	#	#	#
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR1 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR2 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Diesel Zero Mile Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the First PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the Second PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Rural local mix and speeds	#	#	#	#	#	#	#	#	#	#
M615 Comment:	#	#	#	#	#	#	#	#	#	#
User supplied VMT mix.										
M583 Warning:	#	#	#	#	#	#	#	#	#	#
The user supplied arterial average speed of 45.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:	#	#	#	#	#	#	#	#	#	#
there are no sales for vehicle class HDGV8b										

there are no sales for vehicle class LDDT12

Calendar Year:	2022
Month:	Jan.
Altitude:	Low
Minimum Temperature:	44.0 (F)
Maximum Temperature:	55.9 (F)
Minimum Rel. Hum.:	61.6 (%)
Maximum Rel. Hum.:	85.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:										
VMT Distribution:	0.2832	0.4466	0.1522	0.0322	0.0003	0.0023	0.0780	0.0052	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.300	0.624	0.542	0.603	0.423	0.052	0.146	0.817	1.77	0.533

```
* * * * *
* Urban interstate TDM Q4
* File 1, Run 1, Scenario 7.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

- * Reading the Second PM Deterioration Rates
- * from the external data file PMDDR2.CSV
- * Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0516	0.0002	0.0021	0.1248	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.313	0.644	0.560	0.623	0.453	0.065	0.183	1.072	2.06	0.595

* #

* Urban freeway TDM Q4

* File 1, Run 1, Scenario 8.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 51.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.

Altitude: Low

Minimum Temperature: 44.0 (F)

Maximum Temperature: 55.9 (F)

Minimum Rel. Hum.: 61.6 (%)

Maximum Rel. Hum.: 85.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

GVWR:		<6000	>6000							
-------	--	-------	-------	--	--	--	--	--	--	--

VMT Distribution:	0.2801	0.4419	0.1507		0.0350	0.0003	0.0022	0.0847	0.0051	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite NOX :	0.308	0.636	0.553	0.615	0.441	0.059	0.165	0.973	1.91	0.559

* #

* Urban principle arterial TDM Q4

* File 1, Run 1, Scenario 9.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 44.0 (F)
 Maximum Temperature: 55.9 (F)
 Minimum Rel. Hum.: 61.6 (%)
 Maximum Rel. Hum.: 85.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2924	0.4613	0.1573		0.0237	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.293	0.614	0.532	0.593	0.405	0.049	0.137	0.765	1.73	0.515

* # # # # # # # # # # # # # # # # # #
 * Urban minor arterial TDM Q4
 * File 1, Run 1, Scenario 10.
 * # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

2476
Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2923	0.4612	0.1573	0.0237	0.0003	0.0023	0.0576	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOx :	0.290	0.609	0.528	0.588	0.389	0.048	0.135	0.751	1.68	0.511

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

```

* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 64.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external
data file: TECH12.D
M 48 Warning:
there are no sales for vehicle class HDGV8b

* Reading Ammonia (NH3) Basic Emission Rates
* from the external data file PMNH3BER.D

* Reading Ammonia (NH3) Sulfur Deterioration Rates
* from the external data file PMNH3SDR.D
M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.3148 0.3030 0.1033 0.0808 0.0003 0.0016 0.1916 0.0046 1.0000
-----
Composite Emission Factors (g/mi):

```

Composite NOx :	0.878	1.438	1.511	1.457	4.258	1.456	1.589	14.863	2.53	4.074
-----------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

```

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q1
* File 1, Run 1, Scenario 2.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDVT	HDDV	MC	All Veh
VMT Distribution:	0.3721	0.3583	0.1221	0.0415	0.0004	0.0019	0.0983	0.0054	1.0000	
Composite Emission Factors (g/mi):										
Composite NOx :	0.861	1.414	1.487	1.433	4.123	1.204	1.312	12.467	2.33	2.421

* * * Rural minor arterial- Catawba County-TDM-Q1
* File 1, Run 1, Scenario 3.
* * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```
M 48 Warning:
there are no sales for vehicle class HDGV8b
```

Mill Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2008
Month:	Jan.
Altitude:	Low
Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)
Maximum Rel. Hum.:	76.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3787	0.3648	0.1244		0.0369	0.0004	0.0019	0.0874	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.804	1.337	1.410	1.356	3.668	0.820	0.892	7.800	1.84	1.797

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector- Catawba County-TDM-Q1										
* File 1, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 43.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2008										
Month: Jan.										

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.807	1.341	1.414	1.360	3.694	0.830	0.903	7.899	1.85	1.543

* * * * *	#	#	#	#	#	#	#	#	#	#
* Rural minor collector- Catawba County-TDM-Q1										
* File 1, Run 1, Scenario 5.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 37.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3978	0.3829	0.1306		0.0239	0.0004	0.0020	0.0566	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.790	1.319	1.392	1.337	3.531	0.789	0.858	7.502	1.80	1.523

* * * * *
* Rural local- Catawba County-TDM-Q1
* File 1, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3848	0.3706	0.1263		0.0328	0.0004	0.0019	0.0775	0.0056	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.804	1.337	1.410	1.356	3.665	0.820	0.892	7.798	1.84	1.720

* * * * *
* Urban interstate- Catawba County-TDM-Q1
* File 1, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3564	0.3431	0.1170		0.0522	0.0004	0.0018	0.1239	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.864	1.419	1.491	1.437	4.148	1.238	1.350	12.799	2.37	2.786

* # # # # # # # # # # # # # # # #
* Urban freeway- Catawba County-TDM-Q1
* File 1, Run 1, Scenario 8.

* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3807	0.3667	0.1250		0.0356	0.0004	0.0019	0.0842	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.817	1.354	1.427	1.373	3.773	0.865	0.941	9.259	1.88	1.913

* # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-TDM-Q1
* File 1, Run 1, Scenario 9.

```

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 34.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 36.8 (F)
    Maximum Temperature: 54.8 (F)
    Minimum Rel. Hum.: 47.4 (%)
    Maximum Rel. Hum.: 76.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type:      LDGV      LDGT12      LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV      MC      All Veh
GVWR:
VMT Distribution:  0.3978      0.3828      0.1305      (All)      0.0240      0.0004      0.0020      0.0568      0.0057      1.0000
-----

```

Composite Emission Factors (g/mi):

Composite NOX :	0.787	1.315	1.389	1.333	3.448	0.781	0.850	7.429	1.77	1.514
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q1
 * File 1, Run 1, Scenario 10.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input dIesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes

Reformulated Gas: No

Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.793	1.322	1.395	1.340	3.558	0.792	0.862	7.532	1.81	1.532

* * * * *
* Rural interstate- Catawba County-Rural-Q1
* File 1, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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[illegible]

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3787	0.3648	0.1244		0.0369	0.0004	0.0019	0.0874	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.811	1.345	1.418	1.364	3.720	0.839	0.913	7.976	1.85	1.821

* * * * *
* Rural major collector- Catawba County-Rural-Q1
* File 1, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* * * * * Rural minor collector- Catawba County-Rural-Q1

Calendar Year:	2008
Month:	Jan.
Altitude:	Low
Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)
Maximum Rel. Hum.:	76.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.3978	0.3829	0.1306	0.0239	0.0004	0.0020	0.0566	0.0058	1.0000
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Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3564	0.3431	0.1170		0.0522	0.0004	0.0018	0.1239	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.875	1.433	1.506	1.452	4.232	1.404	1.532	14.376	2.49	2.998

* * * * *
* Urban freeway- Catawba County-Rural-Q1
* File 1, Run 1, Scenario 20.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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- * Reading PM Gas Carbon ZML Levels
- * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

```

M583 Warning:
User supplied VMT mix.

```

The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/ml):	0.802	1.335	1.411	1.355	3.314	0.793	0.862	7.538	1.70	1.534

* * * * *
* Urban minor arterial- Catawba County-Rural-Q1
* File 1, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.792	1.321	1.395	1.340	3.397	0.784	0.853	7.458	1.74	1.388

* * * * *

* Urban collector- Catawba County-Rural-Q1

* File 1, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

GVWR:

VMT Distribution:	0.4121	0.3969	0.1353	>6000	0.0140	0.0004	0.0021	0.0332	0.0060	1.0000
-------------------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.794	1.324	1.399	1.343	3.369	0.785	0.854	7.478	1.73	1.350
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* #

* Urban local- Catawba County-Rural-Q1

* File 1, Run 1, Scenario 24.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.794	1.324	1.399	1.343	3.368	0.785	0.854	7.466	1.73	1.525

CAT08P1N.TXT

* MOBILE6.2.03 (24-Sep-2003) *
* Input file: CAT08P1N.IN (file 21, run 1). *

* Reading Registration Distributions from the following external

* data file: NCAGE07.PRN

M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)

* * * * *
* Rural interstate- Catawba County-TDM-Q1
* File 21, Run 1, Scenario 1.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 64.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3030	0.1033		0.0808	0.0003	0.0016	0.1916	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.987	1.588	1.670	1.609	4.258	1.456	1.589	14.863	2.53	4.170

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q1
* File 21, Run 1, Scenario 2.
* * * * *
* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 59.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0415	0.0004	0.0019	0.0983	0.0054	1.0000

Composite Emission Factors (g/ml):
Composite NOX : 0.968 1.563 1.645 1.584 4.123 1.204 1.312 12.467 2.33 2.533

```

* * * * *
* Rural minor arterial- Catawba County-TDM-Q1
* File 21, Run 1, Scenario 3.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 36.8 (F)
    Maximum Temperature: 54.8 (F)
    Minimum Rel. Hum.: 47.4 (%)
    Maximum Rel. Hum.: 76.1 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV HDDV LDDT HDDV MC All Veh

```


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Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.912 1.488 1.573 1.510 3.694 0.830 0.903 7.899 1.85 1.662

* * * * *
* Rural minor collector- Catawba County-TDM-Q1
* File 21, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1306		0.0239	0.0004	0.0020	0.0566	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.894	1.465	1.552	1.487	3.531	0.789	0.858	7.502	1.80	1.641

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural local- Catawba County-TDM-Q1										
* File 21, Run 1, Scenario 6.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3848	0.3706	0.1263	0.0328	0.0004	0.0019	0.0775	0.0056	1.0000	

Composite Emission Factors (g/ml):	0.908	1.484	1.569	1.506	3.665	0.820	0.892	7.798	1.84	1.835

* * * * *
* Urban interstate- Catawba County-TDM-Q1
* File 21, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 60.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0522	0.0004	0.0018	0.1239	0.0052	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.971	1.567	1.650	1.588	4.148	1.238	1.350	12.799	2.37	2.894
-----------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

* * * * *

* Urban freeway- Catawba County-TDM-Q1

* File 21, Run 1, Scenario 8.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3807	0.3667	0.1250		0.0356	0.0004	0.0019	0.0842	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.922	1.501	1.585	1.523	3.773	0.865	0.941	9.259	1.88	2.026

* #
* Urban other principal arterial-Catawba County-TDM-Q1
* File 21, Run 1, Scenario 9.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

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The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT12 (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.891	1.462	1.549	1.484	3.449	0.781	0.850	7.433	1.77	1.504

* * * * *
* Urban collector- Catawba County-TDM-Q1
* File 21, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.891	1.462	1.549	1.484	3.503	0.785	0.853	7.469	1.79	1.467

* * * * *										
* Urban local- Catawba County-TDM-Q1										
* File 21, Run 1, Scenario 12.										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 38.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2008										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 36.8 (F)										
Maximum Temperature: 54.8 (F)										
Minimum Rel. Hum.: 47.4 (%)										
Maximum Rel. Hum.: 76.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.896	1.469	1.555	1.490	3.558	0.792	0.862	7.532	1.81	1.650
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* * * * *

* Rural interstate- Catawba County-Rural-Q1

* File 21, Run 1, Scenario 13.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low

Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0808	0.0003	0.0016	0.1916	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.983	1.583	1.665	1.604	4.232	1.404	1.532	14.371	2.49	4.070

* * * * *
* Rural principal arterial- Catawba County-Rural-Q1
* File 21, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3721	0.3583	0.1221	0.0415	0.0004	0.0019	0.0983	0.0054	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.922	1.501	1.585	1.523	3.773	0.865	0.941	9.259	1.88	2.154

* * * * *
 * Rural minor arterial- Catawba County-Rural-Q1
 * File 21, Run 1, Scenario 15.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

	Altitude:	Low
Minimum Temperature:	36.8	(F)
Maximum Temperature:	54.8	(F)
Minimum Rel. Hum.:	47.4	(%)
Maximum Rel. Hum.:	76.1	(%)
Barometric Pressure:	30.00	(in)
Nominal Fuel RVP:	14.0	psi
Weathered RVP:	14.0	psi
Fuel Sulfur Content:	30.	ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3787	0.3648	0.1244		0.0369	0.0004	0.0019	0.0874	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.915	1.492	1.577	1.514	3.720	0.839	0.913	7.976	1.85	1.934

* * * * *

* Rural major collector- Catawba County-Rural-Q1

* File 21, Run 1, Scenario 16.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

- * Reading PM Gas Carbon DR2 Levels
- * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.912	1.488	1.573	1.510	3.694	0.830	0.903	7.899	1.85	1.662

* * * * *
 * Rural minor collector- Catawba County-Rural-Q1
 * File 21, Run 1, Scenario 17.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0239	0.0004	0.0020	0.0566	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.908	1.484	1.569	1.505	3.665	0.820	0.892	7.800	1.84	1.676

* # # # # # # # # # # # # # # # #
* Rural local- Catawba County-Rural-Q1
* File 21, Run 1, Scenario 18.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263		0.0328	0.0004	0.0019	0.0775	0.0056	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.908	1.484	1.569	1.506	3.665	0.820	0.892	7.798	1.84	1.835
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* * * * *
 * Urban interstate- Catawba County-Rural-Q1
 * File 21, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 63.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.

Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3807	0.3667	0.1250		0.0356	0.0004	0.0019	0.0842	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.957	1.548	1.630	1.569	4.043	1.093	1.191	11.422	2.21	2.256
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* * * * *
* Urban principal arterial-Catawba County-Rural-Q1
* File 21, Run 1, Scenario 21.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.907 1.484 1.574 1.507 3.314 0.793 0.862 7.538 1.70 1.654

* * * * *
* Urban minor arterial- Catawba County-Rural-Q1
* File 21, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.896	1.468	1.557	1.491	3.397	0.784	0.853	7.458	1.74	1.510

* * * * *
* Urban collector- Catawba County-Rural-Q1
* File 21, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.898	1.472	1.561	1.495	3.369	0.785	0.854	7.478	1.73	1.474

* * * * *
* Urban local- Catawba County-Rural-Q1
* File 21, Run 1, Scenario 24.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.898	1.472	1.561	1.495	3.368	0.785	0.854	7.466	1.73	1.644

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q2
* File 2, Run 1, Scenario 2.

```

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 59.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
                Month: July
                Altitude: Low
    Minimum Temperature: 58.3 (F)
    Maximum Temperature: 76.6 (F)
    Minimum Rel. Hum.: 47.6 (%)
    Maximum Rel. Hum.: 86.3 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 10.5 psi
    Weathered RVP: 10.5 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: Yes
    Evap I/M Program: Yes
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type:      LDGV      LDGT12      LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV      MC      All Veh
GVWR:
VMT Distribution:  0.3721      0.3583      0.1221      (All)      0.0414      0.0004      0.0019      0.0984      0.0054      1.0000
-----

```

Composite Emission Factors (g/mi):
Composite NOX : 0.677 1.093 1.118 1.099 3.492 1.159 1.230 11.389 1.79 2.058

* * * * *
* Rural minor arterial- Catawba County-TDM-Q2
* File 2, Run 1, Scenario 3.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.638	1.036	1.062	1.042	3.129	0.800	0.847	7.240	1.42	1.261

* * * * *
 * Rural minor collector- Catawba County-TDM-Q2
 * File 2, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment:

M583 Warning:
 User supplied VMT mix.

The user supplied arterial average speed of 37.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.626	1.018	1.045	1.025	2.990	0.760	0.804	6.874	1.38	1.246

* * * * *
* Rural local- Catawba County-TDM-Q2
* File 2, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.635	1.032	1.059	1.039	3.104	0.790	0.837	7.146	1.41	1.427

- * * * * *
- * Urban interstate- Catawba County-TDM-Q2
- * File 2, Run 1, Scenario 7.
- * * * * *
- * Reading PM Gas Carbon ZML Levels
- * from the external data file PMGZML.CSV
- * Reading PM Gas Carbon DR1 Levels
- * from the external data file PMGDR1.CSV
- * Reading PM Gas Carbon DR2 Levels
- * from the external data file PMGDR2.CSV
- * Reading PM Diesel Zero Mile Levels
- * from the external data file PMDZML.CSV
- * Reading the First PM Deterioration Rates
- * from the external data file PMDDR1.CSV
- * Reading the Second PM Deterioration Rates
- * from the external data file PMDDR2.CSV
- * Urban interstate mix and speeds

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.645	1.046	1.072	1.052	3.196	0.834	0.883	8.440	1.45	1.598

* * * * *
* Urban principle arterial-Catawba County-TDM-Q2
* File 2, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban principle arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.624	1.015	1.043	1.022	2.920	0.753	0.797	6.808	1.36	1.239

* # # # # # # # # # # # # # # # # # # #
* Urban minor arterial- Catawba County-TDM-Q2

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.5 psi
Weathered RVP:	10.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.4087	0.3936	0.1342	0.0163	0.0004	0.0021	0.0388	0.0059	1.0000
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-----Composite Emission Factors (g/mi):-----										
Composite NOX :	0.624	1.015	1.043	1.022	2.921	0.753	0.797	6.811	1.36	1.116

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban collector- Catawba County-TDM-Q2										
* File 2, Run 1, Scenario 11.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 36.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2008										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.5 psi										
Weathered RVP: 10.5 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										

ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VTM Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.624	1.015	1.043	1.022	2.967	0.756	0.800	6.845	1.38	1.080

* # # # # # # # # # # # # # # # #										
* Urban local- Catawba County-TDM-Q2										
* File 2, Run 1, Scenario 12.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:										
	The user supplied arterial average speed of 38.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M111 Warning:										
	The input diesel sulfur level of 43.0 ppm exceeds									
	the 2007 HDD Rule diesel sulfur limit of 15 ppm.									

Calendar Year:	2008									
Month:	July									
Altitude:	Low									
Minimum Temperature:	58.3 (F)									
Maximum Temperature:	76.6 (F)									
Minimum Rel. Hum.:	47.6 (%)									
Maximum Rel. Hum.:	86.3 (%)									

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.627	1.020	1.048	1.027	3.013	0.764	0.808	6.902	1.39	1.254

* * * * *
* Rural interstate- Catawba County-Rural-Q2
* File 2, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.688	1.108	1.133	1.114	3.584	1.353	1.436	13.140	1.91	3.489

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural other principal arterial- Catawba County-Rural-Q2										
* File 2, Run 1, Scenario 14.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural other principle arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 46.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										

all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3721	0.3583	0.1221		0.0414	0.0004	0.0019	0.0984	0.0054	1.0000
Composite Emission Factors (g/ml):	0.645	1.046	1.072	1.052	3.195	0.834	0.883	8.439	1.45	1.718

* * * * *
* Rural minor arterial- Catawba County-Rural-Q2
* File 2, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3787	0.3648	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.640	1.039	1.065	1.046	3.151	0.808	0.856	7.311	1.42	1.519

* * * * *

* Rural major collector- Catawba County-Rural-Q2

* File 2, Run 1, Scenario 16.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

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* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.635	1.032	1.059	1.039	3.104	0.790	0.837	7.149	1.41	1.275

* #

[illegible]

VTM Distribution:	0.3848	0.3706	0.1263	0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.635	1.032	1.059	1.039	0.790	0.837	7.146	1.41	1.427

* # # # # # # # # # # # # # # # # # # #									
* Urban interstate- Catawba County-Rural-Q2									
* File 2, Run 1, Scenario 19.									
* # # # # # # # # # # # # # # # # # # #									
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Urban interstate mix and speeds									
M615 Comment:									
User supplied VMT mix.									
M581 Warning:									
The user supplied freeway average speed of 63.0									
will be used for all hours of the day. 100% of VMT									
has been assigned to the freeway roadway type for									
all hours of the day and all vehicle types.									
M 48 Warning:									
there are no sales for vehicle class HDGV8b									
M111 Warning:									
The input diesel sulfur level of 43.0 ppm exceeds									
the 2007 HDD Rule diesel sulfur limit of 15 ppm.									
Calendar Year: 2008									
Month: July									
Altitude: Low									
Minimum Temperature: 58.3 (F)									
Maximum Temperature: 76.6 (F)									
Minimum Rel. Hum.: 47.6 (%)									
Maximum Rel. Hum.: 86.3 (%)									
Barometric Pressure: 30.00 (inches Hg)									
Nominal Fuel RVP: 10.5 psi									
Weathered RVP: 10.5 psi									
Fuel Sulfur Content: 30. ppm									
Exhaust I/M Program: Yes									

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						

VMT Distribution:	0.3564	0.3431	0.1170	0.0521	0.0004	0.0018	0.1240	0.0052	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.688	1.108	1.133	1.114	3.584	1.353	1.435	13.146	1.91	2.587
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* * * * *
* Urban freeway- Catawba County-Rural-Q2
* File 2, Run 1, Scenario 20.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input dIesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.669	1.082	1.107	1.088	3.424	1.053	1.117	10.429	1.70	1.803

* * * * *
 * Urban other principal arterial-Catawba County-Rural-Q2
 * File 2, Run 1, Scenario 21.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 29.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

ng:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.629	1.020	1.048	1.027	2.877	0.756	0.800	6.834	1.34	1.121
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* * * * *

* Urban collector- Catawba County-Rural-Q2

* File 2, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.632	1.023	1.051	1.030	2.853	0.757	0.801	6.853	1.33	1.086

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-Rural-Q2
* File 2, Run 1, Scenario 24.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.632	1.023	1.051	1.030	2.852	0.757	0.801	6.841	1.33	1.250

CAT08P2N.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAT08P2N.IN (file 22, run 1).
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q2
* File 22, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 64.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.774	1.245	1.257	1.248	3.606	1.403	1.489	13.593	1.94	3.660

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q2
* File 22, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 59.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0414	0.0004	0.0019	0.0984	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.761	1.225	1.238	1.228	3.492	1.159	1.230	11.389	1.79	2.151
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* * * * *
 * Rural minor arterial- Catawba County-TDM-Q2
 * File 22, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV HDDV LDDT HDDV MC All Veh

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Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.720 1.166 1.181 1.170 3.129 0.800 0.847 7.240 1.42 1.360

* # # # # # # # # # # # # # # # #
* Rural minor collector- Catawba County-TDM-Q2
* File 22, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.707	1.148	1.165	1.152	2.990	0.760	0.804	6.874	1.38	1.344

* * * * *
 * Rural local- Catawba County-TDM-Q2
 * File 22, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263	0.0327	0.0004	0.0019	0.0776	0.0056	1.0000	
Composite Emission Factors (g/ml):	0.717	1.162	1.178	1.166	3.104	0.790	0.837	7.146	1.41	1.522

* * * * *
* Urban interstate- Catawba County-TDM-Q2
* File 22, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 60.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0521	0.0004	0.0018	0.1240	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.763	1.229	1.241	1.232	3.513	1.193	1.265	11.695	1.82	2.484

* * * * *
 * Urban freeway- Catawba County-TDM-Q2
 * File 22, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.727	1.176	1.191	1.180	3.196	0.834	0.883	8.440	1.45	1.692

* #
 * Urban principle arterial-Catawba County-TDM-Q2
 * File 22, Run 1, Scenario 9.
 * #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

```

* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 34.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2008
    Month: July
    Altitude: Low
    Minimum Temperature: 58.3 (F)
    Maximum Temperature: 76.6 (F)
    Minimum Rel. Hum.: 47.6 (%)
    Maximum Rel. Hum.: 86.3 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 10.5 psi
    Weathered RVP: 10.5 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: ----->6000 >6000 -----
VMT Distribution: 0.3978 0.3828 0.1305 0.1305 0.0240 0.0004 0.0020 0.0568 0.0057 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX : 0.706 1.145 1.163 1.150 2.920 0.753 0.797 6.808 1.36 1.338
-----
* # # # # # # # # # # # # # # # # # #
* Urban minor arterial- Catawba County-TDM-Q2
* File 22, Run 1, Scenario 10.
* # # # # # # # # # # # # # # # # # #

```

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite NOx :	0.706	1.145	1.163	1.150	2.921	0.753	0.797	6.811	1.36	1.217

* #
* Urban collector- Catawba County-TDM-Q2
* File 22, Run 1, Scenario 11.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:										
VTM Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.706	1.145	1.162	1.150	2.967	0.756	0.800	6.845	1.38	1.182
* * * * *										
* Urban local- Catawba County-TDM-Q2										
* File 22, Run 1, Scenario 12.										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 38.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2008										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.5 psi										
Weathered RVP: 10.5 psi										

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.709	1.150	1.167	1.155	3.013	0.764	0.808	6.902	1.39	1.352
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural interstate- Catawba County-Rural-Q2

* File 22, Run 1, Scenario 13.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.772	1.241	1.253	1.244	3.584	1.353	1.436	13.140	1.91	3.568

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q2
* File 22, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3721	0.3583	0.1221	>6000	0.0414	0.0004	0.0019	0.0984	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.727	1.176	1.191	1.180	3.195	0.834	0.883	8.439	1.45	1.810

* * * * *
 * Rural minor arterial- Catawba County-Rural-Q2
 * File 22, Run 1, Scenario 15.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3787	0.3648	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.722	1.169	1.184	1.173	3.151	0.808	0.856	7.311	1.42	1.613

* # # # # # # # # # # # # # # # # # # #
* Rural major collector- Catawba County-Rural-Q2
* File 22, Run 1, Scenario 16.
* # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.720	1.166	1.181	1.170	3.129	0.800	0.847	7.240	1.42	1.360

* * * * *

* Rural minor collector- Catawba County-Rural-Q2

* File 22, Run 1, Scenario 17.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.717	1.162	1.178	1.166	3.104	0.790	0.837	7.149	1.41	1.374

* # # # # # # # # # # # # # # # #
 * Rural local- Catawba County-Rural-Q2
 * File 22, Run 1, Scenario 18.
 * # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.717	1.162	1.178	1.166	3.104	0.790	0.837	7.146	1.41	1.522
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* * * * *
 * Urban interstate- Catawba County-Rural-Q2
 * File 22, Run 1, Scenario 19.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * * * * *
 * Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 63.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3564	0.3431	0.1170	0.0521	0.0004	0.0018	0.1240	0.0052	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.772	1.241	1.253	1.244	3.584	1.353	1.435	13.146	1.91	2.677

* * * * *
* Urban freeway- Catawba County-Rural-Q2
* File 22, Run 1, Scenario 20.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.752	1.214	1.226	1.217	3.424	1.053	1.117	10.429	1.70	1.897
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* * * * *
* Urban other principal arterial-Catawba County-Rural-Q2
* File 22, Run 1, Scenario 21.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

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M 583 Warning: The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

M 48 Warning:

User supplied VMT mix.

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of V has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle type

M583 Warning:

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

User supplied VMT mix.

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of V has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle type

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.712	1.151	1.169	1.156	2.877	0.756	0.800	6.834	1.34	1.223

* * * * *
* Urban collector- Catawba County-Rural-Q2
* File 22, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment :

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.715	1.154	1.172	1.159	2.853	0.757	0.801	6.853	1.33	1.189

* * * * *
* Urban local- Catawba County-Rural-Q2
* File 22, Run 1, Scenario 24.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.715	1.154	1.172	1.159	2.852	0.757	0.801	6.841	1.33	1.348

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* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 64.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external data file: TECH12.D

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.629	0.999	1.021	1.005	3.686	1.403	1.489	13.593	1.67	3.520

* * * * *

* Rural othe principal arterial- Catawba County-TDM-Q3

* File 3, Run 1, Scenario 2.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000
VMT Distribution: 0.3721 0.3583 0.1221 0.0414 0.0004 0.0019 0.0984 0.0054 1.0000

```


Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3787	0.3648	0.1244	0.0368	0.0004	0.0019	0.0875	0.0055	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.584	0.927	0.952	0.934	3.175	0.790	0.837	7.148	1.22	1.429

* * * * *
 * Rural major collector- Catawba County-TDM-Q3
 * File 3, Run 1, Scenario 4.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.3997	0.3849	0.1312	0.0225	0.0004	0.0020	0.0535	0.0058	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.586	0.930	0.955	0.937	3.198	0.800	0.847	7.240	1.22	1.186

* * * * *
* Rural minor collector- Catawba County-TDM-Q3
* File 3, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:
User supplied VMT mix.

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.576	0.914	0.940	0.921	3.057	0.760	0.804	6.874	1.19	1.173

* * * * *
* Rural local- Catawba County-TDM-Q3
* File 3, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263	0.0327	0.0004	0.0019	0.0776	0.0056	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.584	0.927	0.952	0.934	3.173	0.790	0.837	7.146	1.22	1.356

* * * * *

* Urban interstate- Catawba County-TDM-Q3

* File 3, Run 1, Scenario 7.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.592	0.940	0.964	0.946	3.267	0.834	0.883	8.440	1.25	1.527

* * * * *
* Urban other principal arterial-Catawba County-TDM-Q3
* File 3, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

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Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3974	0.3827	0.1305	0.0241	0.0004	0.0020	0.0572	0.0057	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.578	0.917	0.942	0.923	3.080	0.764	0.808	6.902	1.20	1.181

* * * * *
* Rural interstate- Catawba County-Rural-Q3
* File 3, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

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- * Reading PM Gas Carbon ZML Levels
- * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

* Rural other principal arterial mix and speeds
M615 Comment:

User supplied VMT mix.

The user supplied freeway average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0414	0.0004	0.0019	0.0984	0.0054	1.0000

Composite Emission Factors (g/ml):	0.592	0.940	0.964	0.946	3.266	0.834	0.883	8.439	1.25	1.649

* * * * *
* Rural minor arterial- Catawba County-Rural-Q3
* File 3, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3787	0.3648	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.588	0.933	0.958	0.940	3.221	0.808	0.856	7.311	1.23	1.449

* * * * *

* Rural major collector- Catawba County-Rural-Q3

* File 3, Run 1, Scenario 16.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

GVWR:

VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.586	0.930	0.955	0.937	3.198	0.800	0.847	7.240	1.22	1.186
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural minor collector- Catawba County-Rural-Q3

* File 3, Run 1, Scenario 17.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

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VTM Distribution:	0.3848	0.3706	0.1263	0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.584	0.927	0.952	0.934	0.790	0.837	7.146	1.22	1.356

* * * * *
 * Urban interstate- Catawba County-Rural-Q3
 * File 3, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 63.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3564	0.3431	0.1170	0.0521	0.0004	0.0018	0.1240	0.0052	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.627	0.996	1.018	1.002	3.663	1.353	1.435	13.146	1.65	2.516

* * * * *
* Urban freeway- Catawba County-Rural-Q3
* File 3, Run 1, Scenario 20.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)

Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.612	0.972	0.995	0.978	3.500	1.053	1.117	10.429	1.46	1.728

* * * * *
 * Urban other principal arterial-Catawba County-Rural-Q3
 * File 3, Run 1, Scenario 21.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 29.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/ml):	0.595	0.930	0.957	0.937	2.869	0.764	0.809	6.907	1.13	1.187

* * * * *
* Urban minor arterial- Catawba County-Rural-Q3
* File 3, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.583	0.918	0.944	0.925	2.941	0.756	0.800	6.834	1.16	1.048
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban collector- Catawba County-Rural-Q3

* File 3, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------------	------	------	------	------	----	---------

GVWR:	0.4121	0.3969	0.1353	<6000	0.0140	0.0004	0.0021	0.0332	0.0060	1.0000
-------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.586	0.921	0.947	0.928	2.916	0.757	0.801	6.853	1.15	1.012
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* #

* Urban local- Catawba County-Rural-Q3

* File 3, Run 1, Scenario 24.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.586	0.921	0.947	0.928	2.916	0.757	0.801	6.841	1.15	1.179

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAT08P3N.IN (file 23, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q3
* File 23, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```


* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 59.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3583	0.1221		0.0414	0.0004	0.0019	0.0984	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.693	1.101	1.113	1.104	3.570	1.159	1.230	11.389	1.54	2.068

* * * * *
 * Rural minor arterial- Catawba County-TDM-Q3
 * File 23, Run 1, Scenario 3.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
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Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.661	1.048	1.063	1.051	3.198	0.800	0.847	7.240	1.22	1.275
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* # # # # # # # # # # # # # # # #
* Rural minor collector- Catawba County-TDM-Q3
* File 23, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # #
* # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3978	0.3829	0.1306		0.0238	0.0004	0.0020	0.0567	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.651	1.032	1.048	1.036	3.057	0.760	0.804	6.874	1.19	1.262

* * * * *
 * Rural local- Catawba County-TDM-Q3
 * File 23, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July

Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3848	0.3706	0.1263	0.0327	0.0004	0.0019	0.0776	0.0056	1.0000	

Composite Emission Factors (g/ml):	0.659	1.044	1.060	1.048	3.173	0.790	0.837	7.146	1.22	1.441

* * * * *
* Urban interstate- Catawba County-TDM-Q3
* File 23, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 60.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3431	0.1170		0.0521	0.0004	0.0018	0.1240	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.695	1.104	1.116	1.107	3.591	1.193	1.265	11.695	1.57	2.405

* * * * *
 * Urban freeway- Catawba County-TDM-Q3
 * File 23, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.666	1.057	1.071	1.061	3.267	0.834	0.883	8.440	1.25	1.612

* * * * *
 * Urban other principal arterial-Catawba County-TDM-Q3
 * File 23, Run 1, Scenario 9.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.652	1.030	1.047	1.034	2.985	0.753	0.797	6.808	1.17	1.257

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q3

* File 23, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.652	1.030	1.047	1.034	2.986	0.753	0.797	6.811	1.17	1.134

* #
* Urban collector- Catawba County-TDM-Q3
* File 23, Run 1, Scenario 11.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.650	1.029	1.046	1.034	3.033	0.756	0.800	6.845	1.19	1.097

* * * * *										
* Urban local- Catawba County-TDM-Q3										
* File 23, Run 1, Scenario 12.										
* * * * *										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* * * * *										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* * * * *										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* * * * *										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* * * * *										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* * * * *										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
* M615 Comment:										
User supplied VMT mix.										
* M583 Warning:										
The user supplied arterial average speed of 38.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
* M 48 Warning:										
there are no sales for vehicle class HDGV8b										
* M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2008										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.8 psi										

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.653	1.034	1.050	1.038	3.080	0.764	0.808	6.902	1.20	1.270
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* * * * *

* Rural interstate- Catawba County-Rural-Q3

* File 23, Run 1, Scenario 13.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3148	0.3030	0.1033		0.0807	0.0003	0.0016	0.1917	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.702	1.115	1.127	1.118	3.663	1.353	1.436	13.140	1.65	3.500

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q3
* File 23, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3721	0.3583	0.1221	>6000	0.0414	0.0004	0.0019	0.0984	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.666	1.057	1.071	1.061	3.266	0.834	0.883	8.439	1.25	1.732

* * * * *
 * Rural minor arterial- Catawba County-Rural-Q3
 * File 23, Run 1, Scenario 15.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program:	Yes
ATP Program:	No

Reformulated Gas: No
 Air Program: No

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
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GVWR:

VMT Distribution:

```

VMI DISTRIBUTION: 0.3787 0.3048 0.1244
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Composite Emission Factors (g/mi):

Composite Emission Factors (g/ml):	1 051	1 065	1 054	3 221	0 808	7 311	1 23	1 534
Composite NOX :	0 662							

* * * * *

* Rural major collector- Catawba County-Rural-Q3

* File 23, Run 1, Scenario 16.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3849	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.661	1.048	1.063	1.051	3.198	0.800	0.847	7.240	1.22	1.275

* # # # # # # # # # # # # # # # # #
 * Rural minor collector- Catawba County-Rural-Q3
 * File 23, Run 1, Scenario 17.
 * # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* * * * *
* Rural local- Catawba County-Rural-Q3
* File 23, Run 1, Scenario 18.
* * * * *
```


* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3848	0.3706	0.1263		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.659	1.044	1.060	1.048	3.173	0.790	0.837	7.146	1.22	1.441
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Urban interstate- Catawba County-Rural-Q3
 * File 23, Run 1, Scenario 19.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 63.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3807	0.3667	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.687	1.090	1.103	1.094	3.500	1.053	1.117	10.429	1.46	1.813

* * * * *
 * Urban other principal arterial-Catawba County-Rural-Q3
 * File 23, Run 1, Scenario 21.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 29.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:
 The input dIesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July

Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3978	0.3828	0.1305		0.0240	0.0004	0.0020	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.671 1.049 1.067 1.054 2.869 0.764 0.809 6.907 1.13 1.278

* * * * *
* Urban minor arterial- Catawba County-Rural-Q3
* File 23, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4087	0.3936	0.1342		0.0163	0.0004	0.0021	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.658	1.036	1.053	1.040	2.941	0.756	0.800	6.834	1.16	1.140

* * * * *
* Urban collector- Catawba County-Rural-Q3
* File 23, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.4121	0.3969	0.1353		0.0140	0.0004	0.0021	0.0332	0.0060	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.662	1.039	1.056	1.043	2.916	0.757	0.801	6.853	1.15	1.105

* * * * *
* Urban local- Catawba County-Rural-Q3
* File 23, Run 1, Scenario 24.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3974	0.3827	0.1305		0.0241	0.0004	0.0020	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.662	1.039	1.056	1.043	2.916	0.757	0.801	6.841	1.15	1.269

CAT08P4.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: CAT08P4.IN (file 4, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII
* # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q4
* File 4, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
```

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 64.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

*** I/M credits for Tech1&2 vehicles were read from the following external data file: TECH12.D

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3031	0.1033		0.0808	0.0003	0.0015	0.1916	0.0046	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.758	1.284	1.363	1.304	3.735	1.046	1.366	13.364	2.41	3.645

* * * * *

* Rural other principal arterial- Catawba County-TDM-Q4

* File 4, Run 1, Scenario 2.

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3997	0.3850	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.695	1.196	1.276	1.217	3.240	0.595	0.774	7.099	1.76	1.370

* * * * *
* Rural minor collector- Catawba County-TDM-Q4
* File 4, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:
User supplied VMT mix.

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3978	0.3830	0.1306		0.0239	0.0004	0.0019	0.0566	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.679	1.176	1.257	1.196	3.097	0.565	0.735	6.734	1.72	1.351

* * * * *
* Rural local- Catawba County-TDM-Q4
* File 4, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3848	0.3707	0.1264		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.692	1.192	1.273	1.213	3.215	0.588	0.764	7.006	1.75	1.529

* * * * *
 * Urban interstate- Catawba County-TDM-Q4
 * File 4, Run 1, Scenario 7.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

The user supplied freeway average speed of 60.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

	Altitude:	Low
Minimum Temperature:	43.3	(F)
Maximum Temperature:	56.0	(F)
Minimum Rel. Hum.:	57.9	(%)
Maximum Rel. Hum.:	86.0	(%)
Barometric Pressure:	30.00	(in)
Nominal Fuel RVP:	14.0	psi
Weathered RVP:	14.0	psi
Fuel Sulfur Content:	30.	ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3564	0.3432	0.1170	0.0522	0.0004	0.0017	0.1239	0.0052	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.746	1.266	1.345	1.286	3.638	0.889	1.160	11.474	2.26	2.483

* * * * *
* Urban freeway- Catawba County-IDM-Q4
* File 4, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

- * Reading PM Gas Carbon DR1 Levels
- * from the external data file PMGDR1.CSV

- * Reading PM Gas Carbon DR2 Levels
- * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low

Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3807	0.3668	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.703	1.208	1.288	1.228	3.309	0.620	0.807	8.231	1.79	1.695

* * * * *
* Urban other principal arterial-Catawba County-TDM-Q4
* File 4, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

Calendar Year:	2009
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
WMT Distribution:	0.4087	0.3937	0.1342	0.0163	0.0004	0.0020	0.0388	0.0059	1.0000	

ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4121	0.3970	0.1353	0.0140	0.0004	0.0020	0.0332	0.0060	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.677	1.173	1.254	1.193	0.562	0.731	6.705	1.71	1.192	
* * * * *										
* Urban local- Catawba County-TDM-Q4										
* File 4, Run 1, Scenario 12.										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 38.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2009										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3974	0.3828	0.1305		0.0241	0.0004	0.0019	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.682	1.178	1.259	1.199	3.121	0.568	0.738	6.763	1.72	1.360

* * * * *
* Rural interstate- Catawba County-Rural-Q4
* File 4, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3148	0.3031	0.1033	0.0808	0.0003	0.0015	0.1916	0.0046	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.755	1.280	1.359	1.300	3.712	1.009	1.317	12.913	2.37	3.553

M581 Warning: User supplied VMT mix.

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all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3721	0.3584	0.1221		0.0414	0.0004	0.0018	0.0984	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.703	1.208	1.288	1.228	3.309	0.620	0.807	8.230	1.79	1.810

* * * * *
* Rural minor arterial- Catawba County-Rural-Q4
* File 4, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3787	0.3649	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.698	1.200	1.280	1.220	3.263	0.601	0.782	7.169	1.77	1.620

* * * * *
* Rural major collector- Catawba County-Rural-Q4
* File 4, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGTL34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3564	0.3432	0.1170		0.0522	0.0004	0.0017	0.1239	0.0052	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.755 1.280 1.359 1.300 3.712 1.009 1.317 12.918 2.37 2.677

* * * * *
 * Urban freeway- Catawba County-Rural-Q4
 * File 4, Run 1, Scenario 20.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 56.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input dIesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3807	0.3668	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.733	1.249	1.328	1.269	3.546	0.785	1.023	10.212	2.10	1.904

* * * * *
 * Urban principal arterial-Catawba County-Rural-Q4
 * File 4, Run 1, Scenario 21.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban principal arterial mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 29.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1305		0.0240	0.0004	0.0019	0.0568	0.0057	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.689	1.190	1.274	1.211	2.907	0.568	0.739	6.767	1.62	1.361

* * * * *
* Urban minor arterial- Catawba County-Rural-Q4
* File 4, Run 1, Scenario 22.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

VMT Distribution:	0.4087	0.3937	0.1342		0.0163	0.0004	0.0020	0.0388	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/ml):

Composite NOX :	0.680	1.177	1.260	1.198	2.980	0.562	0.730	6.694	1.66	1.230
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Urban collector- Catawba County-Rural-Q4

* File 4, Run 1, Scenario 23.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.4121	0.3970	0.1353		0.0140	0.0004	0.0020	0.0332	0.0060	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.683	1.180	1.263	1.201	2.955	0.563	0.732	6.713	1.65	1.197

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-Rural-Q4
* File 4, Run 1, Scenario 24.
* # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3974	0.3828	0.1305		0.0241	0.0004	0.0019	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.683	1.180	1.263	1.201	2.954	0.563	0.732	6.702	1.65	1.353

```

CAT08P4N.TXT
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: CAT08P4N.IN (file 24, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q4
* File 24, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 64.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3148	0.3031	0.1033		0.0808	0.0003	0.0015	0.1916	0.0046	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.872	1.445	1.527	1.466	3.735	1.046	1.366	13.364	2.41	3.746

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q4
* File 24, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 59.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3721	0.3584	0.1221		0.0414	0.0004	0.0018	0.0984	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.855	1.422	1.504	1.443	3.617	0.864	1.127	11.169	2.22	2.275

```

* * * * *
* Rural minor arterial- Catawba County-TDM-Q4
* File 24, Run 1, Scenario 3.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M111 Warning:
    The input diesel sulfur level of 43.0 ppm exceeds
    the 2007 HDD Rule diesel sulfur limit of 15 ppm.

    Calendar Year: 2009
    Month: Jan.
    Altitude: Low
    Minimum Temperature: 43.3 (F)
    Maximum Temperature: 56.0 (F)
    Minimum Rel. Hum.: 57.9 (%)
    Maximum Rel. Hum.: 86.0 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 14.0 psi
    Weathered RVP: 14.0 psi
    Fuel Sulfur Content: 30. ppm
    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes
    Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT LDGV HDGV LDDV LDDT HDDV MC All Veh

```


GVWR:	<6000	>6000	(All)						
VT Distribution:	0.3787	0.3649	0.1244						
Composite Emission Factors (g/ml):									
Composite NOX :	0.801	1.350	1.436	1.372	3.217	0.588	0.764	7.008	1.75
									1.717

* * * * *
 * Rural major collector- Catawba County-TDM-Q4
 * File 24, Run 1, Scenario 4.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M111 Warning:
 The input dIesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year:	2009
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3850	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.804 1.354 1.439 1.376 3.240 0.595 0.774 7.099 1.76 1.496

* * * * *
* Rural minor collector- Catawba County-TDM-Q4
* File 24, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input dIesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3978	0.3830	0.1306		0.0239	0.0004	0.0019	0.0566	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.788	1.333	1.420	1.355	3.097	0.565	0.735	6.734	1.72	1.476

* * * * *
 * Rural local- Catawba County-TDM-Q4
 * File 24, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3848	0.3707	0.1264	0.0327	0.0004	0.0019	0.0776	0.0056	1.0000	

Composite Emission Factors (g/ml):	0.801	1.350	1.436	1.372	3.215	0.588	0.764	7.006	1.75	1.650

* * * * *
* Urban interstate- Catawba County-TDM-Q4
* File 24, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 60.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3564	0.3432	0.1170		0.0522	0.0004	0.0017	0.1239	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.858	1.426	1.509	1.447	3.638	0.889	1.160	11.474	2.26	2.598

* * * * *
 * Urban freeway- Catawba County-TDM-Q4
 * File 24, Run 1, Scenario 8.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3807	0.3668	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.813	1.366	1.450	1.387	3.309	0.620	0.807	8.231	1.79	1.815

* * * * *
 * Urban other principal arterial-Catawba County-TDM-Q4
 * File 24, Run 1, Scenario 9.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 34.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3978	0.3829	0.1305		0.0240	0.0004	0.0019	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.785	1.330	1.418	1.352	3.025	0.560	0.728	6.668	1.69	1.469

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q4

* File 24, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.4087	0.3937	0.1342		0.0163	0.0004	0.0020	0.0388	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.785	1.330	1.418	1.352	3.026	0.560	0.728	6.671	1.69	1.354

* * * * *
* Urban collector- Catawba County-TDM-Q4
* File 24, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:		<6000	>6000	(All)						
VTM Distribution:	0.4121	0.3970	0.1353		0.0140	0.0004	0.0020	0.0332	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.786	1.330	1.417	1.352	3.073	0.562	0.731	6.705	1.71	1.321
* * * * *										
* Urban local- Catawba County-TDM-Q4										
* File 24, Run 1, Scenario 12.										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 38.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2009										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	<6000	>6000								
VMT Distribution:	0.3974	0.3828	0.1305		0.0241	0.0004	0.0019	0.0572	0.0057	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.790	1.336	1.423	1.358	3.121	0.568	0.738	6.763	1.72	1.485
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural interstate- Catawba County-Rural-Q4
* File 24, Run 1, Scenario 13.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low

Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3148	0.3031	0.1033		0.0808	0.0003	0.0015	0.1916	0.0046	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.869	1.441	1.523	1.461	3.712	1.009	1.317	12.913	2.37	3.655

* * * * *
* Rural principal arterial- Catawba County-Rural-Q4
* File 24, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3721	0.3584	0.1221	0.0414	0.0004	0.0018	0.0984	0.0054	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.813	1.366	1.450	1.387	3.309	0.620	0.807	8.230	1.79	1.927

* * * * *
* Rural minor arterial- Catawba County-Rural-Q4
* File 24, Run 1, Scenario 15.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

```

M 48 Warning:
there are no sales for vehicle class HDGV8b

```

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

	Altitude:	Low
Minimum Temperature:		43.3 (F)
Maximum Temperature:		56.0 (F)
Minimum Rel. Hum.:		57.9 (%)
Maximum Rel. Hum.:		86.0 (%)
Barometric Pressure:		30.00 (in)
Nominal Fuel RVP:		14.0 psi
Weathered RVP:		14.0 psi
Fuel Sulfur Content:		30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:										
VMT Distribution:	0.3787	0.3649	0.1244		0.0368	0.0004	0.0019	0.0875	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.807	1.358	1.443	1.379	3.263	0.601	0.782	7.169	1.77	1.739

* * * * *
* Rural major collector- Catawba County-Rural-Q4
* File 24, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

- * Reading PM Gas Carbon DR2 Levels
- * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning: The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M111 Warning: The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3997	0.3850	0.1312		0.0225	0.0004	0.0020	0.0535	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.804	1.354	1.439	1.376	3.240	0.595	0.774	7.099	1.76	1.496

* * * * *

* Rural minor collector- Catawba County-Rural-Q4

* File 24, Run 1, Scenario 17.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3978	0.3830	0.1306		0.0239	0.0004	0.0019	0.0566	0.0058	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.801	1.350	1.436	1.372	3.215	0.588	0.764	7.008	1.75	1.509

* # # # # # # # # # # # # # # # # # # #
* Rural local- Catawba County-Rural-Q4
* File 24, Run 1, Scenario 18.
* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3848	0.3707	0.1264		0.0327	0.0004	0.0019	0.0776	0.0056	1.0000

Composite Emission Factors (g/ml):

Composite NOx :	0.801	1.350	1.436	1.372	3.215	0.588	0.764	7.006	1.75	1.650
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban interstate- Catawba County-Rural-Q4										
* File 24, Run 1, Scenario 19.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 63.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										
all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M111 Warning:										
The input diesel sulfur level of 43.0 ppm exceeds										
the 2007 HDD Rule diesel sulfur limit of 15 ppm.										
Calendar Year: 2009										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3807	0.3668	0.1250		0.0355	0.0004	0.0019	0.0843	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.845	1.409	1.491	1.429	3.546	0.785	1.023	10.212	2.10	2.025
-----------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

* * * * *
* Urban principal arterial-Catawba County-Rural-Q4
* File 24, Run 1, Scenario 21.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3978	0.3829	0.1305		0.0240	0.0004	0.0019	0.0568	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.799	1.350	1.440	1.373	2.907	0.568	0.739	6.767	1.62	1.488

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban minor arterial- Catawba County-Rural-Q4										
* File 24, Run 1, Scenario 22.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 32.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

M111 Warning:
The input diesel sulfur level of 43.0 ppm exceeds
the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.4087	0.3937	0.1342		0.0163	0.0004	0.0020	0.0388	0.0059	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.789	1.336	1.425	1.358	2.980	0.562	0.730	6.694	1.66	1.359

* * * * *
* Urban collector- Catawba County-Rural-Q4
* File 24, Run 1, Scenario 23.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M111 Warning:

The input diesel sulfur level of 43.0 ppm exceeds the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.4121	0.3970	0.1353		0.0140	0.0004	0.0020	0.0332	0.0060	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.792	1.339	1.428	1.362	2.955	0.563	0.732	6.713	1.65	1.327

* * * * *
* Urban local- Catawba County-Rural-Q4
* File 24, Run 1, Scenario 24.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M111 Warning:
 The input diesel sulfur level of 43.0 ppm exceeds
 the 2007 HDD Rule diesel sulfur limit of 15 ppm.

Calendar Year: 2009
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3974	0.3828	0.1305		0.0241	0.0004	0.0019	0.0572	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.792	1.339	1.428	1.362	2.954	0.563	0.732	6.702	1.65	1.479

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

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Appendix C.3
December 18, 2009

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* * * * * Rural other principal arterial- Catawba County-TDM-Q1
* * File 5, Run 1, Scenario 2.
* * * * *
*
* Reading PM Gas Carbon ZML Levels

```


* File 5, Run 1, Scenario 3.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 *
 * Rural minor arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.581	1.069	1.152	1.090	2.636	0.364	0.564	5.318	1.83	1.346

* * * * *
* Rural major collector- Catawba County-TDM-Q1
* File 5, Run 1, Scenario 4.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							

```

VTM Distribution: 0.3602 0.4146 0.1413 0.0225 0.0003 0.0021 0.0534 0.0056 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX : 0.587 1.076 1.159 1.097 2.677 0.578 5.454 1.85 1.185
-----

```

```

* * * * *
* Rural minor collector- Catawba County-TDM-Q1
* File 5, Run 1, Scenario 5.
* * * * *

```

```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```

```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```

```

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

```

```

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

```

```

* Rural minor collector mix and speeds
M615 Comment:
User supplied VMT mix.

```

```

M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```

```

M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3585	0.4124	0.1407		0.0239	0.0003	0.0021	0.0567	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.571	1.056	1.140	1.077	2.539	0.353	0.546	5.153	1.79	1.164

* # # # # # # # # # # # # # # # # # # #										
* Rural local- Catawba County-TDM-Q1										
* File 5, Run 1, Scenario 6.										
* # # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 36.8 (F)										
Maximum Temperature: 54.8 (F)										
Minimum Rel. Hum.: 47.4 (%)										
Maximum Rel. Hum.: 76.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3467 0.3991 0.1361 0.0326 0.0003 0.0020 0.0778 0.0054 1.0000

Composite Emission Factors (g/mi):

Composite NOX : 0.584 1.073 1.155 1.094 2.657 0.369 0.571 5.387 1.84 1.305

* # # # # # # # # # # # # # # # # #
* Urban interstate- Catawba County-TDM-Q1
* File 5, Run 1, Scenario 7.
* # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0521	0.0003	0.0018	0.1241	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.628	1.133	1.214	1.154	2.988	0.543	0.843	8.551	2.33	2.004

* * * * *
 * Urban freeway- Catawba County-TDM-Q1
 * File 5, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

M581 Warning:
 User supplied VMT mix.

The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.594	1.086	1.168	1.107	2.735	0.389	0.603	6.257	1.88	1.426

* # # # # # # # # # # # # # # # # # # #										
* Urban other principal arterial-Catawba County-TDM-Q1										
* File 5, Run 1, Scenario 9.										
* # # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban other principal arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 33.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									

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M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

M615 Comment: User supplied VMT mix.

M583 Warning: User supplied VMT mix.

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3683	0.4239	0.1445	>6000	0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.572	1.058	1.142	1.079	2.482	0.352	0.545	5.141	1.76	1.076

* * * * *
* Urban collector- Catawba County-TDM-Q1
* File 5, Run 1, Scenario 11.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.569	1.053	1.137	1.075	2.517	0.351	0.543	5.124	1.78	1.044

* * * * *
* Urban local- Catawba County-TDM-Q1
* File 5, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.2838	0.3263	0.1113		0.0806	0.0003	0.0016	0.1917	0.0044	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.639	1.148	1.229	1.169	3.067	0.634	0.985	9.901	2.49	2.851
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q1

* File 5, Run 1, Scenario 14.

* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3352	0.3859	0.1316		0.0414	0.0003	0.0019	0.0985	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.594	1.086	1.168	1.107	2.735	0.389	0.603	6.258	1.88	1.513

* * * * *
* Rural minor arterial- Catawba County-Rural-Q1
* File 5, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.587	1.076	1.159	1.097	2.677	0.373	0.578	5.454	1.85	1.185

* #

Composite NOX :	0.584	1.073	1.156	1.094	2.657	0.369	0.571	5.394	1.84	1.195
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Rural local- Catawba County-Rural-Q1										
* File 5, Run 1, Scenario 18.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 36.8 (F)										
Maximum Temperature: 54.8 (F)										
Minimum Rel. Hum.: 47.4 (%)										
Maximum Rel. Hum.: 76.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

-----
VMT Distribution:  0.3467  0.3991  0.1361  -----  0.0778  0.0054  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :   0.584   1.073   1.155   1.094   2.657   0.369   0.571   5.387   1.84   1.305
-----

```

```

* * * * *
* Urban interstate- Catawba County-Rural-Q1
* File 5, Run 1, Scenario 19.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.

M581 Warning:
    The user supplied freeway average speed of 63.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.

M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

```


Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.620 1.122 1.203 1.143 2.931 0.493 0.765 7.799 2.21 1.593

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q1
* File 5, Run 1, Scenario 21.
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3582	0.4123	0.1407		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.581	1.072	1.158	1.093	2.402	0.356	0.552	5.209	1.70	1.178

* * * * *
* Urban minor arterial- Catawba County-Rural-Q1
* File 5, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low

Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.574	1.060	1.145	1.082	2.462	0.352	0.546	5.150	1.74	1.078

* * * * *
* Urban collector- Catawba County-Rural-Q1
* File 5, Run 1, Scenario 23.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.576	1.063	1.148	1.085	2.442	0.353	0.547	5.160	1.73	1.053

* * * * *
* Urban local- Catawba County-Rural-Q1
* File 5, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4121	0.1407		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.576	1.063	1.148	1.085	2.441	0.353	0.547	5.160	1.73	1.170

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CARLLPIN.IN (file 25, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q1
* File 25, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low

Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2838	0.3263	0.1113		0.0806	0.0003	0.0016	0.1917	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.775	1.342	1.414	1.360	3.067	0.634	0.985	9.901	2.49	2.973

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q1
* File 25, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.711	1.258	1.336	1.278	2.636	0.364	0.564	5.318	1.83	1.489

* #

Calendar Year:	2011
Month:	Jan.
Altitude:	Low
Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)
Maximum Rel. Hum.:	76.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):

Composite NOX :	0.717	1.265	1.342	1.285	2.677	0.373	0.578	5.454	1.85	1.336

* * * * *										
* Rural minor collector- Catawba County-TDM-Q1										
* File 25, Run 1, Scenario 5.										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 36.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 36.8 (F)										
Maximum Temperature: 54.8 (F)										
Minimum Rel. Hum.: 47.4 (%)										
Maximum Rel. Hum.: 76.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

VMT Distribution: 0.3585 0.4124 0.1407 0.1407 0.0021 0.0021 0.0003 0.0039 2.539 1.264 1.323 1.244 0.700 1.244 1.323 1.264 5.153 1.79 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx : 0.700 1.244 1.323 1.264 1.323 1.244 1.323 1.264 5.153 1.79 1.314
-----

```

```

* * * * *
* Rural local- Catawba County-TDM-Q1
* File 25, Run 1, Scenario 6.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```


Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1261		0.0521	0.0003	0.0018	0.1241	0.0050	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.762 1.325 1.398 1.344 2.988 0.543 0.843 8.551 2.33 2.141

* * * * *
* Urban freeway- Catawba County-TDM-Q1
* File 25, Run 1, Scenario 8.
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3429	0.3950	0.1347	0.0355	0.0003	0.0020	0.0843	0.0053	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.725	1.276	1.351	1.295	2.735	0.389	0.603	6.257	1.88	1.570

* * * * *
* Urban other principal arterial-Catawba County-TDM-Q1
* File 25, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low

Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1407		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.701	1.247	1.327	1.267	2.481	0.352	0.545	5.140	1.76	1.315

* * * * *
* Urban minor arterial- Catawba County-TDM-Q1
* File 25, Run 1, Scenario 10.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

ng:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.698	1.241	1.321	1.262	2.517	0.351	0.543	5.124	1.78	1.200

* * * * *
* Urban local- Catawba County-TDM-Q1
* File 25, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.
The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1407		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.702	1.247	1.326	1.267	2.559	0.354	0.549	5.182	1.80	1.321

* # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-Rural-Q1
* File 25, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2838	0.3263	0.1113		0.0806	0.0003	0.0016	0.1917	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.775	1.342	1.414	1.360	3.067	0.634	0.985	9.901	2.49	2.973

* # # # # # # # # # # # # # # # # # # #
 * Rural other principal arterial- Catawba County-Rural-Q1
 * File 25, Run 1, Scenario 14.

* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3352	0.3859	0.1316		0.0414	0.0003	0.0019	0.0985	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.725	1.276	1.351	1.295	2.735	0.389	0.603	6.258	1.88	1.654

* * * * *
* Rural minor arterial- Catawba County-Rural-Q1
* File 25, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

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* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.717	1.265	1.342	1.285	2.677	0.373	0.578	5.454	1.85	1.336

* # # # # # # # # # # # # # # # #
* Rural minor collector- Catawba County-Rural-Q1
* File 25, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # #

```
M 48 Warning:
there are no sales for vehicle class HDGV8b
```

Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)
Maximum Rel. Hum.:	76.1 (%)
Barometric Pressure:	30.00 (in)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):

* #
* Rural local- Catawba County-Rural-Q1
* File 25, Run 1, Scenario 18.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	>6000								
-------	-------	-------	--	--	--	--	--	--	--	--

VMT Distribution:	0.3582	0.4123	0.1407		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/ml):

Composite NOX :	0.712	1.263	1.344	1.283	2.402	0.356	0.552	5.209	1.70	1.330
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Urban minor arterial- Catawba County-Rural-Q1
* File 25, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.703	1.250	1.330	1.270	2.462	0.352	0.546	5.150	1.74	1.233

* * * * *
 * Urban collector- Catawba County-Rural-Q1
 * File 25, Run 1, Scenario 23.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.706	1.253	1.333	1.273	2.442	0.353	0.547	5.160	1.73	1.209

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban local- Catawba County-Rural-Q1										
* File 25, Run 1, Scenario 24.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:										

Calendar Year:	2011
Month:	Jan.
Altitude:	Low
Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)
Maximum Rel. Hum.:	76.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):

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* File 6, Run 1, Scenario 3.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 *
 * Rural minor arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3413	0.3929	0.1340		0.0367	0.0003	0.0020	0.0875	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.460	0.824	0.863	0.834	2.232	0.349	0.528	4.711	1.41	1.099

```

* * * * *
* Rural major collector- Catawba County-TDM-Q2
* File 6, Run 1, Scenario 4.
* * * * *

```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.csv
```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.csv

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

M615 Comment: User supplied VMT mix.

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low
Minimum Temperature: 58.3 (F)

Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure:	30.00 (in)
Nominal Fuel RVP:	10.5 psi
Weathered RVP:	10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust	I/M Program:	Yes
Exhaust	I/M Program:	Yes

Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

VTM Distribution:  0.3602  0.4146  0.1413  0.0224  0.0003  0.0021  0.0535  0.0056  1.0000
-----
Composite Emission Factors (g/ml):
Composite NOX :    0.464    0.830    0.869    0.840    2.267    0.357    0.541    4.833    1.42    0.952
-----

```

```

* * * * *
* Rural minor collector- Catawba County-TDM-Q2
* File 6, Run 1, Scenario 5.
* * * * *

```

```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```

```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```

```

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

```

```

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

```

```

* Rural minor collector mix and speeds
M615 Comment:      User supplied VMT mix.

```

```

M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```

```

M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year:  2011
Month:  July
Altitude:  Low
Minimum Temperature:  58.3 (F)
Maximum Temperature:  76.6 (F)
Minimum Rel. Hum.:  47.6 (%)
Maximum Rel. Hum.:  86.3 (%)
Barometric Pressure:  30.00 (inches Hg)
Nominal Fuel RVP:  10.5 psi
Weathered RVP:  10.5 psi
Fuel Sulfur Content:  30. ppm

Exhaust I/M Program:  Yes
Evap I/M Program:  Yes
ATP Program:  Yes
Reformulated Gas:  No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:				(All)						
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.453	0.814	0.854	0.824	2.149	0.338	0.511	4.565	1.38	0.937

* #										
* Rural local- Catawba County-TDM-Q2										
* File 6, Run 1, Scenario 6.										
* #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.5 psi										
Weathered RVP: 10.5 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
GVWR: <6000 >6000

VMT Distribution: 0.3467 0.3991 0.1361 0.0326 0.0003 0.0020 0.0778 0.0054 1.0000

Composite Emission Factors (g/mi):

Composite NOX : 0.462 0.827 0.866 0.837 2.249 0.353 0.534 4.773 1.41 1.062

* * * * *
* Urban interstate- Catawba County-TDM-Q2
* File 6, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.494	0.875	0.912	0.885	2.530	0.520	0.788	7.570	1.79	1.679

* * * * *
 * Urban freeway- Catawba County-TDM-Q2
 * File 6, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

M581 Warning:
 User supplied VMT mix.

The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.469	0.838	0.876	0.848	2.315	0.373	0.564	5.536	1.45	1.168

* * * * *
 * Urban other principal arterial-Catawba County-TDM-Q2
 * File 6, Run 1, Scenario 9.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3683	0.4239	0.1445	>6000	0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.455	0.816	0.856	0.826	2.101	0.337	0.509	4.555	1.35	0.857

* * * * *
* Urban collector- Catawba County-TDM-Q2
* File 6, Run 1, Scenario 11.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.451	0.812	0.852	0.822	2.131	0.336	0.508	4.540	1.37	0.829

* * * * *
* Urban local- Catawba County-TDM-Q2
* File 6, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Urban local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July

Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3582	0.4121	0.1406	>6000	0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.454	0.816	0.856	0.826	2.166	0.339	0.513	4.591	1.38	0.943

* # # # # # # # # # # # # # # # # # # #
 * Rural interstate- Catawba County-Rural-Q2
 * File 6, Run 1, Scenario 13.

* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.502	0.887	0.924	0.897	2.597	0.607	0.921	8.766	1.91	2.435

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q2

* File 6, Run 1, Scenario 14.

* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3352	0.3859	0.1316		0.0413	0.0003	0.0019	0.0986	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.469	0.838	0.876	0.848	2.315	0.373	0.564	5.537	1.45	1.246

* * * * *
* Rural minor arterial- Catawba County-Rural-Q2
* File 6, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

On-road Mobile Source Emission Inventory Documentation
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Redesignation Demonstration and Maintenance Plan

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3602	0.4146	0.1413		0.0224	0.0003	0.0021	0.0535	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.464	0.830	0.869	0.840	2.267	0.357	0.541	4.833	1.42	0.952

[illegible]

* Rural minor collector- Catawba County-Rural-Q2
* File 6, Run 1, Scenario 17.

* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.462	0.827	0.866	0.837	2.249	0.353	0.534	4.779	1.41	0.963

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural local- Catawba County-Rural-Q2										
* File 6, Run 1, Scenario 18.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning: The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning: there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.5 psi										
Weathered RVP: 10.5 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.3467	0.3991	0.1361	0.0326	0.0003	0.0020	0.0778	0.0054
Composite Emission Factors (g/mi):								
Composite NOx :	0.462	0.827	0.866	0.837	2.249	0.353	4.773	1.41
								1.062

```

* * * * *
* * Urban interstate- Catawba County-Rural-Q2
* * File 6, Run 1, Scenario 19.

```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M501 Warning: The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.488 0.866 0.903 0.876 2.481 0.472 0.715 6.902 1.70 1.312

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q2
* File 6, Run 1, Scenario 21.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.465	0.827	0.869	0.838	2.033	0.341	0.516	4.615	1.31	0.950

* * * * *
* Urban minor arterial- Catawba County-Rural-Q2
* File 6, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.457	0.818	0.858	0.828	2.084	0.337	0.510	4.563	1.34	0.859

* * * * *
* Urban collector- Catawba County-Rural-Q2
* File 6, Run 1, Scenario 23.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000
Composite Emission Factors (g/ml):	0.459	0.820	0.861	0.830	2.067	0.338	0.511	4.572	1.33	0.836

* * * * *
* Urban local- Catawba County-Rural-Q2
* File 6, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.459	0.820	0.861	0.830	2.066	0.338	0.511	4.572	1.33	0.943

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAR11P2N.IN (file 26, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q2
* File 26, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.608	1.057	1.065	1.059	2.597	0.607	0.921	8.766	1.91	2.536

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q2
* File 26, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

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The user supplied arterial average speed of 41.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3413	0.3929	0.1340		0.0367	0.0003	0.0020	0.0875	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.563	0.989	1.002	0.992	2.232	0.349	0.528	4.711	1.41	1.218

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December 18, 2009

* Rural major collector- Catawba County-TDM-Q2
* File 26, Run 1, Scenario 4.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0224	0.0003	0.0021	0.0535	0.0056	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.567	0.995	1.007	0.998	2.267	0.357	0.541	4.833	1.42	1.077

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Rural minor collector- Catawba County-TDM-Q2										
* File 26, Run 1, Scenario 5.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 36.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.5 psi										
Weathered RVP: 10.5 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type: LDGV	LDGTL2	LDGT34	LDGT	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

```

VMT Distribution: 0.3585 0.4124 0.1406 0.0238 0.0003 0.0021 0.0568 0.0055 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx : 0.555 0.978 0.993 0.982 2.149 0.338 0.511 4.565 1.38 1.061
-----

```

```

* * * * *
* Rural local- Catawba County-TDM-Q2
* File 26, Run 1, Scenario 6.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```


Reformulated Gas: No

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.599	1.043	1.052	1.046	2.530	0.520	0.788	7.570	1.79	1.793
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Urban freeway- Catawba County-TDM-Q2
* File 26, Run 1, Scenario 8.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.572	1.003	1.015	1.006	2.315	0.373	0.564	5.536	1.45	1.287

* * * * *
* Urban other principal arterial-Catawba County-TDM-Q2
* File 26, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.558	0.980	0.996	0.984	2.100	0.337	0.509	4.554	1.35	1.063

* * * * *
* Urban minor arterial- Catawba County-TDM-Q2
* File 26, Run 1, Scenario 10.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.554	0.976	0.991	0.979	2.131	0.336	0.508	4.540	1.37	0.957

* * * * *
* Urban local- Catawba County-TDM-Q2
* File 26, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 37.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.557	0.980	0.995	0.984	2.166	0.339	0.513	4.591	1.38	1.067

* # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-Rural-Q2
* File 26, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.608	1.057	1.065	1.059	2.597	0.607	0.921	8.766	1.91	2.536

* # # # # # # # # # # # # # # # # # #
 * Rural other principal arterial- Catawba County-Rural-Q2
 * File 26, Run 1, Scenario 14.
 * # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3352	0.3859	0.1316		0.0413	0.0003	0.0019	0.0986	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.572	1.003	1.015	1.006	2.315	0.373	0.564	5.537	1.45	1.363

* # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Catawba County-Rural-Q2
* File 26, Run 1, Scenario 15.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

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* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year:	2011										
Month:	July										
Altitude:	Low										
Minimum Temperature:	58.3 (F)										
Maximum Temperature:	76.6 (F)										
Minimum Rel. Hum.:	47.6 (%)										
Maximum Rel. Hum.:	86.3 (%)										
Barometric Pressure:	30.00 (inches Hg)										
Nominal Fuel RVP:	10.5 psi										
Weathered RVP:	10.5 psi										
Fuel Sulfur Content:	30. ppm										
Exhaust I/M Program:	No										
Evap I/M Program:	No										
ATP Program:	Yes										
Reformulated Gas:	No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh	
GVWR:	<6000	>6000	(All)								
VMT Distribution:	0.3602	0.4146	0.1413	0.0224	0.0003	0.0021	0.0535	0.0056	1.0000		

Composite Emission Factors (g/ml):											
Composite NOX :	0.567	0.995	1.007	0.998	2.267	0.357	0.541	4.833	1.42	1.077	

* # # # # # # # # # # # # # # # # # #
* Rural minor collector- Catawba County-Rural-Q2
* File 26, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # # # #

Composite NOX :	0.565	0.992	1.005	0.995	2.249	0.353	0.534	4.779	1.41	1.087
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

GVWR:	<6000	>6000	(All)
VMT Distribution:	0.3210	0.3696	0.1261
Composite Emission Factors (g/ml):			
Composite NOX :	0.608	1.057	1.065
	1.059	2.596	0.607
	0.921	8.772	1.91
			1.956

* * * * *
* Urban freeway- Catawba County-Rural-Q2
* File 26, Run 1, Scenario 20.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.569	0.994	1.010	0.998	2.033	0.341	0.516	4.615	1.31	1.076

* * * * *
* Urban minor arterial- Catawba County-Rural-Q2
* File 26, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.560	0.983	0.998	0.987	2.084	0.337	0.510	4.563	1.34	0.987

* * * * *
 * Urban collector- Catawba County-Rural-Q2
 * File 26, Run 1, Scenario 23.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July

Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.562	0.985	1.001	0.989	2.067	0.338	0.511	4.572	1.33	0.966

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban local- Catawba County-Rural-Q2										
* File 26, Run 1, Scenario 24.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 31.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:										

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.562	0.985	1.001	0.989	2.066	0.338	0.511	4.572	1.33	1.068

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 59.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3352	0.3859	0.1316		0.0413	0.0003	0.0019	0.0986	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.451	0.785	0.819	0.794	2.615	0.520	0.788	7.565	1.54	1.425

* # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Catawba County-TDM-Q3

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Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3413	0.3929	0.1340	0.0367	0.0003	0.0020	0.0875	0.0053	1.0000	
Composite Emission Factors (g/mi):										
Composite NOx :	0.423	0.739	0.775	0.748	2.307	0.349	0.528	4.711	1.21	1.043


```

VTM Distribution: 0.3602 0.4146 0.1413 0.0224 0.0003 0.0021 0.0535 0.0056 1.0000
-----
Composite Emission Factors (g/ml):
Composite NOX : 0.426 0.744 0.780 0.753 2.343 0.357 0.541 4.833 1.22 0.891
-----

```

```

* * * * *
* Rural minor collector- Catawba County-TDM-Q3
* File 7, Run 1, Scenario 5.
* * * * *

```

```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```

```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```

```

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

```

```

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

```

```

* Rural minor collector mix and speeds
M615 Comment:
User supplied VMT mix.

```

```

M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```

```

M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:				(All)						
VMT Distribution:	0.3585	0.4124	0.1406		0.0238	0.0003	0.0021	0.0568	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.418	0.729	0.766	0.739	2.221	0.338	0.511	4.565	1.19	0.878

* # # # # # # # # # # # # # # # # # # #										
* Rural local- Catawba County-TDM-Q3										
* File 7, Run 1, Scenario 6.										
* # # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.8 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All Veh
 GVWR: <6000 >6000

VMT Distribution: 0.3467 0.3991 0.1361 0.0326 0.0003 0.0020 0.0778 0.0054 1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.425 0.742 0.777 0.751 2.325 0.353 0.534 4.773 1.22 1.004

* * * * *
 * Urban interstate- Catawba County-TDM-Q3
 * File 7, Run 1, Scenario 7.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban interstate mix and speeds
 M615 Comment: User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 59.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low

Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.451	0.785	0.819	0.794	2.615	0.520	0.788	7.570	1.54	1.623

* * * * *
 * Urban freeway- Catawba County-TDM-Q3
 * File 7, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
 M615 Comment:

M581 Warning:
 User supplied VMT mix.

The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.431	0.751	0.786	0.760	2.393	0.373	0.564	5.536	1.25	1.110

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban other principal arterial-Catawba County-TDM-Q3										
* File 7, Run 1, Scenario 9.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban other principal arterial mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 33.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										

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The user supplied arterial average speed of 33.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

M615 Comment:

User supplied VMT mix.

M583 Warning:

type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3683	0.4239	0.1445	>6000	0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.421	0.732	0.769	0.741	2.172	0.337	0.509	4.555	1.16	0.797

* * * * *
* Urban collector- Catawba County-TDM-Q3
* File 7, Run 1, Scenario 11.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.417	0.728	0.764	0.737	2.203	0.336	0.508	4.540	1.18	0.767

* * * * *
* Urban local- Catawba County-TDM-Q3
* File 7, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
* Urban local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.419	0.731	0.768	0.741	2.239	0.339	0.513	4.591	1.19	0.884

* # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-Rural-Q3
* File 7, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.457	0.796	0.830	0.805	2.684	0.607	0.921	8.766	1.65	2.388
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural other principal arterial- Catawba County-Rural-Q3

* File 7, Run 1, Scenario 14.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3352	0.3859	0.1316		0.0413	0.0003	0.0019	0.0986	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.431	0.751	0.786	0.760	2.393	0.373	0.564	5.537	1.25	1.190

* * * * *
* Rural minor arterial- Catawba County-Rural-Q3
* File 7, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

```

* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:      The user supplied arterial average speed of 44.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the arterial/collector roadway
                    type for all hours of the day and all vehicle types.
M 48 Warning:      there are no sales for vehicle class HDGV8b

                    Calendar Year: 2011
                    Month: July
                    Altitude: Low
                    Minimum Temperature: 66.8 (F)
                    Maximum Temperature: 82.5 (F)
                    Minimum Rel. Hum.: 56.5 (%)
                    Maximum Rel. Hum.: 88.2 (%)
                    Barometric Pressure: 30.00 (inches Hg)
                    Nominal Fuel RVP: 9.0 psi
                    Weathered RVP: 8.8 psi
                    Fuel Sulfur Content: 30. ppm
                    Exhaust I/M Program: Yes
                    Evap I/M Program: Yes
                    ATP Program: Yes
                    Reformulated Gas: No

Vehicle Type:      LDGV      LDGT12      LDGT34      LDGT34      LDGT      HDGV      LDDV      LDDT      HDDV      MC      All Veh
GVWR:              -----
VMT Distribution:  0.3413      0.3929      0.1340      >6000      (All)      0.0367      0.0003      0.0020      0.0875      0.0053      1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX :    0.428      0.747      0.782      0.755      2.358      0.361      0.547      4.883      1.23      1.066
-----

* * * * *
* Rural major collector- Catawba County-Rural-Q3
* File 7, Run 1, Scenario 16.
* * * * *
```

The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3602	0.4146	0.1413	0.0224	0.0003	0.0021	0.0056	1.0000		
Composite Emission Factors (g/mi):										
Composite NOX :	0.426	0.744	0.780	0.753	2.343	0.357	0.541	4.833	1.22	0.891

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Composite NOx :	0.425	0.742	0.777	0.751	2.325	0.353	0.534	4.779	1.22	0.902
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Rural Local- Catawba County-Rural-Q3										
* File 7, Run 1, Scenario 18.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 42.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.8 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type: LDGV	LDGT12	LDGT34	LDGT	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							


```

-----
VMT Distribution:  0.3467  0.3991  0.1361  -----  0.0778  0.0778  0.0020  0.0003  0.0326  2.325  0.751  0.534  4.773  1.22  0.0054  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :  0.425  0.742  0.777  0.777  0.751  0.534  4.773  1.22  0.0054  1.0004
-----

```

```

* * * * *
* Urban interstate- Catawba County-Rural-Q3
* File 7, Run 1, Scenario 19.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban interstate mix and speeds
M615 Comment:
      User supplied VMT mix.

M581 Warning:
      The user supplied freeway average speed of 63.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the freeway roadway type for
      all hours of the day and all vehicle types.

M 48 Warning:
      there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

```


Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.446 0.777 0.811 0.786 2.564 0.472 0.715 6.902 1.46 1.252

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q3
* File 7, Run 1, Scenario 21.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.432	0.743	0.781	0.753	2.102	0.341	0.516	4.615	1.13	0.892

* * * * *
* Urban minor arterial- Catawba County-Rural-Q3
* File 7, Run 1, Scenario 22.
* * * * *

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.423	0.734	0.771	0.743	2.155	0.337	0.510	4.563	1.16	0.799

* * * * *
* Urban collector- Catawba County-Rural-Q3
* File 7, Run 1, Scenario 23.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban collector mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.426	0.736	0.774	0.746	2.137	0.338	0.511	4.572	1.15	0.776

* * * * *
* Urban local- Catawba County-Rural-Q3
* File 7, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.426	0.736	0.774	0.746	2.136	0.338	0.511	4.572	1.15	0.885

CAT11P3N.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAT11P3N.IN (file 27, run 1).
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q3
* File 27, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```


* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.552	0.948	0.957	0.950	2.684	0.607	0.921	8.766	1.65	2.479

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q3
* File 27, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3413	0.3929	0.1340		0.0367	0.0003	0.0020	0.0875	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.517	0.887	0.900	0.890	2.307	0.349	0.528	4.711	1.21	1.150

* #

* Rural major collector- Catawba County-TDM-Q3
* File 27, Run 1, Scenario 4.

* # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0224	0.0003	0.0021	0.0535	0.0056	1.0000

Composite Emission Factors (g/mi):

Composite NOx :	0.520	0.892	0.905	0.895	2.343	0.357	0.541	4.833	1.22	1.004

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Rural minor collector- Catawba County-TDM-Q3										
* File 27, Run 1, Scenario 5.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *						
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 36.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
Calendar Year: 2011										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.8 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

```

VMT Distribution: 0.3585 0.4124 0.1406 0.0238 0.0003 0.0021 0.0568 0.0055 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx : 0.512 0.877 0.892 0.881 0.338 0.511 4.565 1.19 0.990
-----

```

```

* * * * *
* Rural local- Catawba County-TDM-Q3
* File 27, Run 1, Scenario 6.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b

```

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```


Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3210	0.3696	0.1261		0.0520	0.0003	0.0018	0.1242	0.0050	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.546	0.936	0.946	0.938	2.615	0.520	0.788	7.570	1.54	1.725
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Urban freeway- Catawba County-TDM-Q3
* File 27, Run 1, Scenario 8.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3429	0.3950	0.1347		0.0354	0.0003	0.0020	0.0844	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.524	0.900	0.912	0.903	2.393	0.373	0.564	5.536	1.25	1.218

* * * * *
* Urban other principal arterial-Catawba County-TDM-Q3
* File 27, Run 1, Scenario 9.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.516	0.880	0.895	0.884	2.171	0.337	0.509	4.554	1.16	0.993

* * * * *
* Urban minor arterial- Catawba County-TDM-Q3
* File 27, Run 1, Scenario 10.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

ng:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.511	0.875	0.890	0.879	2.203	0.336	0.508	4.540	1.18	0.883

* * * * *
* Urban local- Catawba County-TDM-Q3
* File 27, Run 1, Scenario 12.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3582	0.4121	0.1406		0.0240	0.0003	0.0021	0.0572	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.513	0.879	0.893	0.883	2.239	0.339	0.513	4.591	1.19	0.996

* # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-Rural-Q3
* File 27, Run 1, Scenario 13.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2838	0.3263	0.1113		0.0805	0.0003	0.0016	0.1918	0.0044	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.552	0.948	0.957	0.950	2.684	0.607	0.921	8.766	1.65	2.479
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* #

* Rural other principal arterial- Catawba County-Rural-Q3

* File 27, Run 1, Scenario 14.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3352	0.3859	0.1316		0.0413	0.0003	0.0019	0.0986	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.524	0.900	0.912	0.903	2.393	0.373	0.564	5.537	1.25	1.295

* #
* Rural minor arterial- Catawba County-Rural-Q3
* File 27, Run 1, Scenario 15.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3602	0.4146	0.1413		0.0224	0.0003	0.0021	0.0535	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.520	0.892	0.905	0.895	2.343	0.357	0.541	4.833	1.22	1.004

* # # # # # # # # # # # # # # # #
* Rural minor collector- Catawba County-Rural-Q3
* File 27, Run 1, Scenario 17.
* # # # # # # # # # # # # # # # #

```
M 48 Warning:
there are no sales for vehicle class HDGV8b
```

	Altitude:	Low
Minimum Temperature:		66.8 (F)
Maximum Temperature:		82.5 (F)
Minimum Rel. Hum.:		56.5 (%)
Maximum Rel. Hum.:		88.2 (%)
Barometric Pressure:		30.00 (in)
Nominal Fuel RVP:		9.0 psi
Weathered RVP:		8.8 psi
Fuel Sulfur Content:		30. ppm

Exhaust	I/M Program:	No
Evap	I/M Program:	No
	ATP Program:	Yes
Reformulated Gas:		No

Composite Emission Factors (g/mi):

* * * * *
* Rural local- Catawba County-Rural-Q3
* File 27, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDLV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0326	0.0003	0.0020	0.0778	0.0054	1.0000

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Appendix C.3
December 18, 2009

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M581 Warning: The user supplied freeway average speed of 56.0
              will be used for all hours of the day. 100% of VMT
              has been assigned to the freeway roadway type for
              all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
```


Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3582	0.4123	0.1406		0.0239	0.0003	0.0021	0.0571	0.0055	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.528	0.893	0.909	0.897	2.102	0.341	0.516	4.615	1.13	1.007
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* Urban minor arterial- Catawba County-Rural-Q3

* File 27, Run 1, Scenario 22.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.518	0.882	0.897	0.886	2.155	0.337	0.510	4.563	1.16	0.915

* * * * *
 * Urban collector- Catawba County-Rural-Q3
 * File 27, Run 1, Scenario 23.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July

Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.521	0.885	0.900	0.889	2.137	0.338	0.511	4.572	1.15	0.893

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* Urban local- Catawba County-Rural-Q3										
* File 27, Run 1, Scenario 24.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan


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M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LD0T12
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3352	0.3859	0.1316		0.0414	0.0003	0.0019	0.0985	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOx :	0.534	1.016	1.073	1.030	2.544	0.405	0.729	7.367	2.22	1.556

* # # # # # # # # # # # # # # # #											
* Rural minor arterial- Catawba County-TDM-Q4											
* File 8, Run 1, Scenario 3.											
* # # # # # # # # # # # # # # # #											
* Reading PM Gas Carbon ZML Levels											
* from the external data file PMGZML.CSV											
* Reading PM Gas Carbon DR1 Levels											
* from the external data file PMGDR1.CSV											
* Reading PM Gas Carbon DR2 Levels											
* from the external data file PMGDR2.CSV											
* Reading PM Diesel Zero Mile Levels											
* from the external data file PMDZML.CSV											
* Reading the First PM Deterioration Rates											
* from the external data file PMDDR1.CSV											
* Reading the Second PM Deterioration Rates											
* from the external data file PMDDR2.CSV											
* Rural minor arterial mix and speeds											
M615 Comment:											
User supplied VMT mix.											
M583 Warning:											
The user supplied arterial average speed of 41.0											
will be used for all hours of the day. 100% of VMT											
has been assigned to the arterial/collector roadway											
type for all hours of the day and all vehicle types.											
M 48 Warning:											
there are no sales for vehicle class HDGV8b											
M 48 Warning:											
there are no sales for vehicle class LDDT12											
Calendar Year: 2012											
Month: Jan.											
Altitude: Low											
Minimum Temperature: 43.3 (F)											
Maximum Temperature: 56.0 (F)											
Minimum Rel. Hum.: 57.9 (%)											
Maximum Rel. Hum.: 86.0 (%)											
Barometric Pressure: 30.00 (inches Hg)											
Nominal Fuel RVP: 14.0 psi											
Weathered RVP: 14.0 psi											
Fuel Sulfur Content: 30. ppm											
Exhaust I/M Program: Yes											
Evap I/M Program: Yes											
ATP Program: Yes											
Reformulated Gas: No											
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh	

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.497	0.965	1.023	0.980	2.279	0.278	0.499	4.741	1.76	1.039
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector- Catawba County-TDM-Q4
* File 8, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3585	0.4124	0.1407		0.0239	0.0003	0.0020	0.0567	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.483	0.946	1.006	0.962	2.161	0.263	0.472	4.481	1.71	1.021

* * * * *
 * Rural local- Catawba County-TDM-Q4
 * File 8, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3467	0.3991	0.1361		0.0327	0.0003	0.0020	0.0777	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.495	0.962	1.020	0.977	2.262	0.275	0.494	4.682	1.75	1.143

* * * * *
* Urban interstate- Catawba County-TDM-Q4
* File 8, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0522	0.0003	0.0018	0.1240	0.0050	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.534	1.016	1.073	1.030	2.544	0.405	0.729	7.372	2.22	1.742

* * * * *
* Urban freeway- Catawba County-TDM-Q4
* File 8, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3429	0.3950	0.1347	>6000	0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.504	0.974	1.032	0.989	2.328	0.290	0.521	5.399	1.79	1.245

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q4

* File 8, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4123	0.1407		0.0240	0.0003	0.0020	0.0570	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.484	0.948	1.008	0.963	2.112	0.262	0.471	4.470	1.68	1.022

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q4
 * File 8, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.484	0.948	1.008	0.963	2.112	0.262	0.471	4.471	1.68	0.945

* * * * *
* Urban collector- Catawba County-TDM-Q4
* File 8, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.481	0.944	1.003	0.959	2.143	0.261	0.469	4.457	1.70	0.918

* * * * *
 * Urban local- Catawba County-TDM-Q4
 * File 8, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 37.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						


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VMT Distribution: 0.3582 0.4121 0.1407 0.0240 0.0003 0.0020 0.0572 0.0055 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx : 0.485 0.949 1.008 0.964 2.178 0.264 0.474 4.506 1.72 1.027
-----

```

```

* * * * *
* Rural interstate- Catawba County-Rural-Q4
* File 8, Run 1, Scenario 13.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes

```

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2839	0.3263	0.1113	0.0806	0.0002	0.0016	0.1917	0.0044	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.544	1.029	1.087	1.044	2.611	0.474	0.852	8.532	2.37	2.469

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q4
* File 8, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3352	0.3859	0.1316		0.0414	0.0003	0.0019	0.0985	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.504	0.974	1.032	0.989	2.328	0.290	0.521	5.400	1.79	1.319

* * * * *
 * Rural minor arterial- Catawba County-Rural-Q4
 * File 8, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.499	0.968	1.026	0.983	2.294	0.281	0.505	4.789	1.77	1.202

* * * * *
* Rural major collector- Catawba County-Rural-Q4
* File 8, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.497	0.965	1.023	0.980	2.279	0.278	0.499	4.741	1.76	1.039

* * * * *
* Rural minor collector- Catawba County-Rural-Q4
* File 8, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

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Appendix C.3

December 18, 2009

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Minimum Temperature: 15.3 (F)
Maximum Temperature: 56.0 (F)

Maximum Temperature: 30.0 (F)
Minimum Rel. Hum.: 57.9 (%)

Minimum Rel.	Hum.	57.9 (%)
Maximum Rel.	Hum.	86.0 (%)

Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP:	14.0 psi
Omnetric Pressure:	30.00 (in)

NOMINAL FUEL	RVP: 14.0 psi
Weathered	RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap	I/M Program:	Yes

ever	I/M Program:	Yes
	ATP Program:	Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDGT	HDDV	MC	All veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.3585	0.4124	0.1407	0.0239	0.0003	0.0020	0.0567	0.0055	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

	Composite emission factors (g/m ³)					
Composite NOx :	0.495	0.962	1.020	0.977	2.261	0.275
						0.494
						4.688
						1.75
						1.048

```
* * * * *
* Rural local- Catawba County-Rural-Q4
* File 8, Run 1, Scenario 18.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:

VMT Distribution:	0.3467	0.3991	0.1361		0.0327	0.0003	0.0020	0.0777	0.0054	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.495	0.962	1.020	0.977	2.262	0.275	0.494	4.682	1.75	1.143
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban interstate- Catawba County-Rural-Q4

* File 8, Run 1, Scenario 19.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

Calendar Year:	2012
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:										
VMT Distribution:	0.3210	0.3696	0.1261		0.0522	0.0003	0.0018	0.1240	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.544	1.029	1.086	1.044	2.611	0.474	0.852	8.538	2.37	1.901

* * * * * Urban freeway- Catawba County-Rural-Q4
 * * * * * File 8, Run 1, Scenario 20.
 * * * * *
 * Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.527	1.006	1.063	1.020	2.494	0.368	0.661	6.725	2.10	1.389

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-Rural-Q4
* File 8, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VTM Distribution:	0.3582	0.4123	0.1407	0.0240	0.0003	0.0020	0.0570	0.0055	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.492	0.960	1.021	0.975	0.266	0.477	4.529	1.62	1.033

* * * * *
 * Urban minor arterial- Catawba County-Rural-Q4
 * File 8, Run 1, Scenario 22.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

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Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.487	0.952	1.013	0.968	2.079	0.263	0.472	4.487	1.65	0.925

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban local- Catawba County-Rural-Q4										
* File 8, Run 1, Scenario 24.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										

Calendar Year:	2012
Month:	Jan.

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```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: CARLLP4N.IN (file 28, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate- Catawba County-TDM-Q4  
* File 28, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2839	0.3263	0.1113		0.0806	0.0002	0.0016	0.1917	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.679	1.224	1.269	1.235	2.611	0.474	0.852	8.532	2.37	2.591

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q4
* File 28, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2012
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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Composite Emission Factors (g/mi):
Composite NOx :    0.622    1.147    1.197    1.160    2.244    0.272    0.488    4.622    1.75    1.321
-----

* * * * *
* Rural major collector- Catawba County-TDM-Q4
* File 28, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 43.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.628	1.154	1.203	1.166	2.279	0.278	0.499	4.741	1.76	1.190
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector- Catawba County-TDM-Q4
* File 28, Run 1, Scenario 5.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3585	0.4124	0.1407	0.0239	0.0003	0.0020	0.0567	0.0055	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.612	1.135	1.185	1.148	2.161	0.263	0.472	4.481	1.71	1.170

* * * * *
* Rural local- Catawba County-TDM-Q4
* File 28, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
M 48 Warning:
M 48 Warning:
there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low

Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3467	0.3991	0.1361		0.0327	0.0003	0.0020	0.0777	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.625	1.151	1.200	1.163	2.262	0.275	0.494	4.682	1.75	1.288

* * * * *
* Urban interstate- Catawba County-TDM-Q4
* File 28, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 59.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0522	0.0003	0.0018	0.1240	0.0050	1.0000

Composite Emission Factors (g/ml):	0.669	1.209	1.254	1.220	2.544	0.405	0.729	7.372	2.22	1.879

* * * * *
 * Urban freeway- Catawba County-TDM-Q4
 * File 28, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:
 User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 46.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3429	0.3950	0.1347		0.0355	0.0003	0.0020	0.0843	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.635	1.164	1.211	1.176	2.328	0.290	0.521	5.399	1.79	1.389

* #
* Urban other principal arterial-Catawba County-TDM-Q4
* File 28, Run 1, Scenario 9.
* #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.3582	0.4123	0.1407		0.0240	0.0003	0.0020	0.0570	0.0055	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.614	1.137	1.188	1.150	2.112	0.262	0.471	4.470	1.68	1.171
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q4

* File 28, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.614	1.137	1.188	1.150	2.112	0.262	0.471	4.471	1.68	1.098

* # # # # # # # # # # # # # # # # # #
* Urban collector- Catawba County-TDM-Q4
* File 28, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.610	1.132	1.183	1.145	2.143	0.261	0.469	4.457	1.70	1.072

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q4

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:				(All)						
VMT Distribution:	0.2839	0.3263	0.1113	0.0806	0.0002	0.0016	0.1917	0.0044	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.679	1.224	1.269	1.235	2.611	0.474	0.852	8.532	2.37	2.591

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q4
* File 28, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3352	0.3859	0.1316		0.0414	0.0003	0.0019	0.0985	0.0052	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.635	1.164	1.211	1.176	2.328	0.290	0.521	5.400	1.79	1.460
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* * * * *
 * Rural minor arterial- Catawba County-Rural-Q4
 * File 28, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3413	0.3929	0.1340		0.0368	0.0003	0.0020	0.0874	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.630	1.157	1.205	1.169	2.294	0.281	0.505	4.789	1.77	1.345

* * * * *
 * Rural major collector- Catawba County-Rural-Q4
 * File 28, Run 1, Scenario 16.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3602	0.4146	0.1413		0.0225	0.0003	0.0021	0.0534	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.628	1.154	1.203	1.166	2.279	0.278	0.499	4.741	1.76	1.190

* * * * *
* Rural minor collector- Catawba County-Rural-Q4
* File 28, Run 1, Scenario 17.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3585	0.4124	0.1407	>6000	0.0239	0.0003	0.0020	0.0567	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.625	1.151	1.200	1.163	2.261	0.275	0.494	4.688	1.75	1.198

* * * * *
* Rural local- Catawba County-Rural-Q4
* File 28, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2012
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3467	0.3991	0.1361		0.0327	0.0003	0.0020	0.0777	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.625	1.151	1.200	1.163	2.262	0.275	0.494	4.682	1.75	1.288

* # # # # # # # # # # # # # # # # # # #
 * Urban interstate- Catawba County-Rural-Q4
 * File 28, Run 1, Scenario 19.
 * # # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2012

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3210	0.3696	0.1261		0.0522	0.0003	0.0018	0.1240	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.679	1.224	1.269	1.235	2.611	0.474	0.852	8.538	2.37	2.039

* * * * *

* Urban freeway- Catawba County-Rural-Q4

* File 28, Run 1, Scenario 20.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q4
* File 28, Run 1, Scenario 21.

```

* # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.3582 0.4123 0.1407 0.0240 0.0020 0.0570 0.0055 1.0000
-----
Composite Emission Factors (g/ml):

```

Composite NOX :	0.623	1.151	1.204	1.164	2.045	0.266	0.477	4.529	1.62	1.184
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban minor arterial- Catawba County-Rural-Q4										
* File 28, Run 1, Scenario 22.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 32.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2012										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3683	0.4239	0.1445		0.0163	0.0003	0.0021	0.0389	0.0057	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.615	1.139	1.191	1.152	2.096	0.263	0.471	4.478	1.66	1.101

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban collector- Catawba County-Rural-Q4										
* File 28, Run 1, Scenario 23.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2012										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3713	0.4275	0.1458		0.0140	0.0003	0.0021	0.0333	0.0057	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.617 1.142 1.194 1.155 2.079 0.263 0.472 4.487 1.65 1.080

* * * * *
* Urban local- Catawba County-Rural-Q4
* File 28, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2012
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3582	0.4121	0.1407	0.0240	0.0003	0.0020	0.0572	0.0055	1.0000	
Composite Emission Factors (g/ml):										
Composite NOX :	0.617	1.142	1.194	1.155	2.078	0.263	0.472	4.487	1.65	1.176

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.434	0.862	0.930	0.879	1.854	0.277	0.561	5.224	2.29	1.218

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.403	0.820	0.887	0.837	1.658	0.194	0.392	3.419	1.84	0.854
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* * * * *
* Rural minor collector- Catawba County-TDM-Q1
* File 9, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3291	0.4344	0.1480		0.0238	0.0003	0.0022	0.0568	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.391	0.805	0.873	0.822	1.571	0.184	0.373	3.256	1.78	0.840

* * * * *
 * Rural local- Catawba County-TDM-Q1
 * File 9, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.401	0.817	0.885	0.834	1.646	0.191	0.387	3.381	1.83	0.925

* * * * *
* Urban interstate- Catawba County-TDM-Q1
* File 9, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1327		0.0520	0.0003	0.0019	0.1242	0.0049	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.432	0.860	0.927	0.877	1.842	0.268	0.543	5.071	2.25	1.323

* * * * *
* Urban freeway- Catawba County-TDM-Q1
* File 9, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3151	0.4160	0.1417	>6000	0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.408	0.827	0.894	0.844	1.694	0.200	0.406	3.867	1.86	0.996

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q1

* File 9, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3289	0.4343	0.1480		0.0239	0.0003	0.0022	0.0570	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.395	0.810	0.879	0.828	1.537	0.185	0.375	3.272	1.74	0.845

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q1
 * File 9, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.395	0.810	0.879	0.828	1.537	0.185	0.375	3.274	1.74	0.792

* * * * *
* Urban collector- Catawba County-TDM-Q1
* File 9, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.

Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1535		0.0139	0.0003	0.0022	0.0333	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.392	0.807	0.875	0.824	1.561	0.184	0.373	3.263	1.77	0.772

* * * * *
 * Urban local- Catawba County-TDM-Q1
 * File 9, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 36.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

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Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.2604	0.3437	0.1171	0.0803	0.0002	0.0017	0.1923	0.0043	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.444	0.876	0.944	0.894	1.915	0.333	0.675	6.232	2.49	1.891
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q1
* File 9, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.410	0.830	0.897	0.847	1.707	0.204	0.414	3.936	1.88	1.057

* * * * *
* Rural minor arterial- Catawba County-Rural-Q1
* File 9, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.406	0.825	0.892	0.842	1.682	0.198	0.401	3.501	1.85	0.973

* * * * *
* Rural major collector- Catawba County-Rural-Q1
* File 9, Run 1, Scenario 16.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):	0.405	0.822	0.890	0.840	1.671	0.196	0.397	3.459	1.85	0.859

* * * * *
* Rural minor collector- Catawba County-Rural-Q1
* File 9, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap	I/M Program:	Yes

ATP Program: Yes

Reformulated Gas: No

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3291	0.4344	0.1480		0.0238	0.0003	0.0022	0.0568	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOx :	0.403	0.820	0.887	0.837	1.659	0.194	0.392	3.426	1.84	0.865

```
* * * * *
* Rural local- Catawba County-Rural-Q1
* File 9, Run 1, Scenario 18.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.430	0.857	0.924	0.874	1.829	0.259	0.525	4.914	2.21	1.114

[illegible]

LDGT
(All)-----

```

VMT Distribution: 0.3289 0.4343 0.1480 0.0239 0.0003 0.0022 0.0570 0.0054 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOX : 0.400 0.818 0.888 0.836 1.500 0.187 0.379 3.309 1.70 0.853
-----

```

```

* * * * *
* Urban minor arterial- Catawba County-Rural-Q1
* File 9, Run 1, Scenario 22.
* * * * *

```

```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

```

```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```

```

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

```

```

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

```

```

* Urban minor arterial mix and speeds
M615 Comment:

```

```

User supplied VMT mix.

```

```

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```

```

M 48 Warning:

```

```

there are no sales for vehicle class HDGV8b

```

```

M 48 Warning:

```

```

there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: Jan.

```

```

Altitude: Low

```

```

Minimum Temperature: 36.8 (F)

```

```

Maximum Temperature: 54.8 (F)

```

```

Minimum Rel. Hum.: 47.4 (%)

```

```

Maximum Rel. Hum.: 76.1 (%)

```

```

Barometric Pressure: 30.00 (inches Hg)

```

```

Nominal Fuel RVP: 14.0 psi

```

```

Weathered RVP: 14.0 psi

```

```

Fuel Sulfur Content: 30. ppm

```

```

Exhaust I/M Program: Yes

```

```

Evap I/M Program: Yes

```

ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.395	0.810	0.879	0.828	1.537	0.185	0.375	3.274	1.74	0.792

* # # # # # # # # # # # # # # # # # #										
* Urban collector- Catawba County-Rural-Q1										
* File 9, Run 1, Scenario 23.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2014										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 36.8 (F)										
Maximum Temperature: 54.8 (F)										
Minimum Rel. Hum.: 47.4 (%)										
Maximum Rel. Hum.: 76.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3410	0.4502	0.1535		0.0139	0.0003	0.0022	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.396	0.812	0.881	0.830	1.524	0.185	0.375	3.280	1.73	0.777

* * * * *
 * Urban local- Catawba County-Rural-Q1
 * File 9, Run 1, Scenario 24.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.

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```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAR14PIN.IN (file 29, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q1
* File 29, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0803	0.0002	0.0017	0.1923	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.594	1.099	1.147	1.111	1.903	0.320	0.649	6.003	2.45	1.986

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q1
* File 29, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2014
Month:	Jan.
Altitude:	Low
Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)
Maximum Rel. Hum.:	76.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDV	LDGT	HDDV	MC	All Veh
VMT Distribution:	0.3134	0.4138	0.1410	0.0366	0.0003	0.0021	0.0876	0.0052	1.0000	

Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3291	0.4344	0.1480	0.0238	0.0003	0.0022	0.0568	0.0054	1.0000	

Composite Emission Factors (g/mi):

Composite NOX :	0.536	1.022	1.075	1.036	1.571	0.184	0.373	3.256	1.78	1.012
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # #
* Rural local- Catawba County-TDM-Q1
* File 29, Run 1, Scenario 6.
* # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low

Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.546	1.035	1.087	1.049	1.646	0.191	0.387	3.381	1.83	1.092

* * * * *
* Urban interstate- Catawba County-TDM-Q1
* File 29, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1327		0.0520	0.0003	0.0019	0.1242	0.0049	1.0000

Composite Emission Factors (g/ml):	0.582	1.083	1.131	1.095	1.842	0.268	0.543	5.071	2.25	1.481

* * * * *
 * Urban freeway- Catawba County-TDM-Q1
 * File 29, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.555	1.047	1.097	1.059	1.694	0.200	0.406	3.867	1.86	1.162

* * * * *
* Urban other principal arterial-Catawba County-TDM-Q1
* File 29, Run 1, Scenario 9.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.3289	0.4343	0.1480		0.0239	0.0003	0.0022	0.0570	0.0054	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.540	1.029	1.082	1.042	1.537	0.185	0.375	3.272	1.74	1.018
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* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q1

* File 29, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1535		0.0139	0.0003	0.0022	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.537	1.024	1.077	1.038	1.561	0.184	0.373	3.263	1.77	0.951

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q1

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

2962
Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.2604	0.3437	0.1171		0.0803	0.0002	0.0017	0.1923	0.0043	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.596	1.102	1.151	1.115	1.915	0.333	0.675	6.232	2.49	2.033

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q1
* File 29, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.557	1.050	1.100	1.062	1.707	0.204	0.414	3.936	1.88	1.220

* * * * *
* Rural minor arterial- Catawba County-Rural-Q1
* File 29, Run 1, Scenario 15.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.553	1.044	1.095	1.057	1.682	0.198	0.401	3.501	1.85	1.138

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* Rural major collector- Catawba County-Rural-Q1										
* File 29, Run 1, Scenario 16.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.551	1.041	1.092	1.054	1.671	0.196	0.397	3.459	1.85	1.033

* * * * *
* Rural minor collector- Catawba County-Rural-Q1
* File 29, Run 1, Scenario 17.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0238	0.0003	0.0022	0.0568	0.0054	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.549	1.038	1.090	1.051	1.659	0.194	0.392	3.426	1.84	1.038

* * * * *
* Rural local- Catawba County-Rural-Q1
* File 29, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: Jan.

Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.549	1.038	1.090	1.051	1.659	0.194	0.392	3.424	1.84	1.098

* * * * *
 * Urban interstate- Catawba County-Rural-Q1
 * File 29, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1327		0.0520	0.0003	0.0019	0.1242	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.596	1.102	1.151	1.115	1.915	0.333	0.675	6.232	2.49	1.645

* * * * *

* Urban freeway- Catawba County-Rural-Q1

* File 29, Run 1, Scenario 20.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.580	1.080	1.128	1.092	1.829	0.259	0.525	4.914	2.21	1.283

* * * * *

* Urban other principal arterial-Catawba County-Rural-Q1

* File 29, Run 1, Scenario 21.

Composite NOX :	0.547	1.039	1.094	1.053	1.500	0.187	0.379	3.309	1.70	1.028
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban minor arterial- Catawba County-Rural-Q1										
* File 29, Run 1, Scenario 22.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 32.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2014										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 36.8 (F)										
Maximum Temperature: 54.8 (F)										
Minimum Rel. Hum.: 47.4 (%)										
Maximum Rel. Hum.: 76.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										

	Altitude:	Low
Minimum Temperature:	36.8	(F)
Maximum Temperature:	54.8	(F)
Minimum Rel. Hum.:	47.4	(%)
Maximum Rel. Hum.:	76.1	(%)
Barometric Pressure:	30.00	(in)
Nominal Fuel RVP:	14.0	psi
Weathered RVP:	14.0	psi
Fuel Sulfur Content:	30.	ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3410	0.4502	0.1535		0.0139	0.0003	0.0022	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.542 1.031 1.085 1.045 1.524 0.185 0.375 3.280 1.73 0.956

* * * * *
* Urban local- Catawba County-Rural-Q1
* File 29, Run 1, Scenario 24.
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3288	0.4341	0.1479	0.0239	0.0003	0.0022	0.0574	0.0054	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.542	1.031	1.085	1.045	1.524	0.185	0.375	3.278	1.73	1.021

```
* * * MOBILE6.2.O3 (24-Sep-2003) *
** Input file: CARL4P2.IN (file 10, run 1). **
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)
M 49 Warning:      0.998   MYR sum not = 1. (will normalize)
M 49 Warning:      0.998   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      0.999   MYR sum not = 1. (will normalize)
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)
* OBDII
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q2
* File 10, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PWGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PWGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
```



```

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LD0DT12

```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite NOx :	0.343	0.669	0.703	0.678	1.574	0.265	0.527	4.655	1.76	1.010

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.321	0.635	0.669	0.644	1.408	0.186	0.369	3.049	1.41	0.686
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector- Catawba County-TDM-Q2
* File 10, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.313	0.623	0.657	0.632	1.334	0.176	0.351	2.905	1.37	0.676

* * * * *
 * Rural local- Catawba County-TDM-Q2
 * File 10, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDLV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.320	0.633	0.667	0.641	1.398	0.183	0.364	3.016	1.41	0.751

* * * * *
* Urban interstate- Catawba County-TDM-Q2
* File 10, Run 1, Scenario 7.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.342	0.667	0.700	0.676	1.564	0.257	0.511	4.518	1.73	1.106

* * * * *
* Urban freeway- Catawba County-TDM-Q2
* File 10, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3151	0.4160	0.1417	>6000	0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.325	0.641	0.674	0.650	1.439	0.192	0.381	3.443	1.43	0.814

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q2

* File 10, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.317	0.628	0.662	0.636	1.305	0.177	0.352	2.918	1.34	0.681

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q2
 * File 10, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.317	0.628	0.662	0.636	1.306	0.177	0.352	2.921	1.34	0.631

* * * * *
* Urban collector- Catawba County-TDM-Q2
* File 10, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July

Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.314	0.624	0.659	0.633	1.326	0.177	0.351	2.910	1.36	0.613

* * * * *
 * Urban local- Catawba County-TDM-Q2
 * File 10, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning: The user supplied arterial average speed of 36.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						


```

VMT Distribution:      0.3288      0.4341      0.1479      0.0239      0.0003      0.0574      0.0054      1.0000
-----
Composite Emission Factors (g/mi.):
Composite NOX :      0.314      0.625      0.659      0.633      1.346      0.177      0.353      2.920      1.38      0.680
-----

* * * * *
* * * * * Rural interstate- Catawba County-Rural-Q2
* * * * * File 10, Run 1, Scenario 13.
* * * * *
* * * * *
* * * * *
* * * * * Reading PM Gas Carbon ZML Levels
* * * * * from the external data file PMGZML.CSV
* * * * *
* * * * * Reading PM Gas Carbon DR1 Levels
* * * * * from the external data file PMGDR1.CSV
* * * * *
* * * * * Reading PM Gas Carbon DR2 Levels
* * * * * from the external data file PMGDR2.CSV
* * * * *
* * * * * Reading PM Diesel Zero Mile Levels
* * * * * from the external data file PMDZML.CSV
* * * * *
* * * * * Reading the First PM Deterioration Rates
* * * * * from the external data file PMDDR1.CSV
* * * * *
* * * * * Reading the Second PM Deterioration Rates
* * * * * from the external data file PMDDR2.CSV
* * * * * Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

```

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Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.326	0.643	0.677	0.652	1.450	0.196	0.389	3.504	1.45	0.870

* * * * *
* Rural minor arterial- Catawba County-Rural-Q2
* File 10, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.324	0.639	0.673	0.648	1.429	0.190	0.377	3.123	1.42	0.795

* * * * *
* Rural major collector- Catawba County-Rural-Q2
* File 10, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.322	0.637	0.671	0.646	1.419	0.188	0.373	3.086	1.42	0.690

* * * * *
* Rural minor collector- Catawba County-Rural-Q2
* File 10, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.321	0.635	0.669	0.644	1.409	0.186	0.369	3.054	1.41	0.756

* #
* Urban interstate- Catawba County-Rural-Q2
* File 10, Run 1, Scenario 19.
* #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.5 psi
Weathered RVP:	10.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* * * * *
* * * * * Urban freeway-Catawba County-Rural-Q2
* * * * * File 10, Run 1, Scenario 20.
* * * * *
* * * * *
* * * * * Reading PM Gas Carbon ZML Levels

```


* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.340	0.665	0.698	0.673	1.554	0.248	0.493	4.378	1.70	0.917

```

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q2
* File 10, Run 1, Scenario 21.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

```

VMT Distribution: 0.3289 0.4343 0.1480 0.0238 0.0003 0.0022 0.0571 0.0054 1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx : 0.322 0.635 0.670 0.644 1.274 0.179 0.356 2.952 1.31 0.688
-----

* * * * *
* Urban minor arterial- Catawba County-Rural-Q2
* File 10, Run 1, Scenario 22.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban minor arterial mix and speeds
M615 Comment:
      User supplied VMT mix.

M583 Warning:
      The user supplied arterial average speed of 32.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.

M 48 Warning:
      there are no sales for vehicle class HDGV8b

M 48 Warning:
      there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes

```

Altitude:	Low
Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)
Barometric Pressure:	30.00 (in)

Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.318	0.629	0.664	0.638	1.295	0.178	0.353	2.926	1.33	0.617

* # # # # # # # # # # # # # # # # # # #										
* Urban local- Catawba County-Rural-Q2										
* File 10, Run 1, Scenario 24.										
* # # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										

Calendar Year: 2014
 Month: July

On-road Mobile Source Emission Inventory Documentation
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Redesignation Demonstration and Maintenance Plan

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: CARL4P2N.IN (file 30, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate- Catawba County-TDM-Q2  
* File 30, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.469	0.874	0.870	0.873	1.616	0.307	0.610	5.351	1.88	1.692
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* * * * *
* Rural other principal arterial- Catawba County-TDM-Q2
* File 30, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.5 psi
Weathered RVP:	10.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.437	0.824	0.823	0.824	1.408	0.186	0.369	3.049	1.41	0.830
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* * * * *
* Rural minor collector- Catawba County-TDM-Q2
* File 30, Run 1, Scenario 5.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.428 0.811 0.811 0.811 1.334 0.176 0.351 2.905 1.37 0.818

* * * * *
 * Rural local- Catawba County-TDM-Q2
 * File 30, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.435	0.821	0.821	0.821	1.398	0.183	0.364	3.016	1.41	0.890

* * * * *
* Urban interstate- Catawba County-TDM-Q2
* File 30, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000
Composite Emission Factors (g/ml):	0.460	0.861	0.857	0.860	1.564	0.257	0.511	4.518	1.73	1.237

* * * * *
* Urban freeway- Catawba County-TDM-Q2
* File 30, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.441	0.831	0.829	0.830	1.439	0.192	0.381	3.443	1.43	0.952

* # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-TDM-Q2
* File 30, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.433	0.816	0.817	0.817	1.305	0.177	0.352	2.918	1.34	0.824
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* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q2

* File 30, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.429	0.813	0.813	0.813	1.326	0.177	0.351	2.910	1.36	0.761

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q2

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

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On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.470	0.876	0.873	0.875	1.626	0.319	0.635	5.554	1.91	1.734

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q2
* File 30, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.443	0.833	0.832	0.833	1.450	0.196	0.389	3.504	1.45	1.004

* # # # # # # # # # # # # # # # #										
* Rural minor arterial- Catawba County-Rural-Q2										
* File 30, Run 1, Scenario 15.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural minor arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.440	0.829	0.827	0.828	1.429	0.190	0.377	3.123	1.42	0.931

* # # # # # # # # # # # # # # # # # # #										
* Rural major collector- Catawba County-Rural-Q2										
* File 30, Run 1, Scenario 16.										
* # # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:										

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.438	0.826	0.825	0.826	1.419	0.188	0.373	3.086	1.42	0.834

* * * * *
* Rural minor collector- Catawba County-Rural-Q2
* File 30, Run 1, Scenario 17.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
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GVWR:

VMT Distribution:	0.3291	0.4344	0.1480	>6000	0.0237	0.0003	0.0022	0.0569	0.0054	1.0000
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Composite Emission Factors (g/ml):

Composite NOX :	0.437	0.824	0.823	0.824	1.409	0.186	0.369	3.056	1.41	0.839
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* * * * *

* Rural local- Catawba County-Rural-Q2

* File 30, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July

Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.437	0.824	0.823	0.824	1.409	0.186	0.369	3.054	1.41	0.895

* * * * *
 * Urban interstate- Catawba County-Rural-Q2
 * File 30, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.470	0.876	0.873	0.875	1.626	0.319	0.635	5.555	1.91	1.381

* * * * *

* Urban freeway- Catawba County-Rural-Q2

* File 30, Run 1, Scenario 20.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.459	0.858	0.855	0.857	1.554	0.248	0.493	4.378	1.70	1.057

* * * * *

* Urban other principal arterial-Catawba County-Rural-Q2

* File 30, Run 1, Scenario 21.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.3289 0.4343 0.1480
-----
Composite Emission Factors (g/ml):

```

Composite NOx :	0.439	0.825	0.827	0.826	1.274	0.179	0.356	2.952	1.31	0.832
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban minor arterial- Catawba County-Rural-Q2										
* File 30, Run 1, Scenario 22.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 32.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2014										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.5 psi										
Weathered RVP: 10.5 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GTVR:	<6000	>6000	>6000							
VMT Distribution:	0.3380	0.4465	0.1522	-----	0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.433	0.816	0.817	0.817	1.306	0.177	0.352	2.921	1.34	0.779

* * * * *	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* Urban collector- Catawba County-Rural-Q2										
* File 30, Run 1, Scenario 23.										
* * * * *	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #	# # # # #
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2014										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.5 psi										
Weathered RVP: 10.5 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.434 0.819 0.820 0.819 1.295 0.178 0.353 2.926 1.33 0.766

* * * * *
* Urban local- Catawba County-Rural-Q2
* File 30, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3288	0.4341	0.1479	0.0239	0.0003	0.0022	0.0574	0.0054	1.0000	
Composite Emission Factors (g/ml):										
Composite NOX :	0.434	0.819	0.820	0.819	1.294	0.178	0.353	2.924	1.33	0.826

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAR14P3.IN (file 11, run 1).
*****

* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  * OBDII
  * # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  * Rural interstate- Catawba County-TDM-Q3
  * File 11, Run 1, Scenario 1.
  * # # # # # # # # # # # # # # # # # # # # # # # # # # # #
  * Reading PM Gas Carbon ZML Levels
  * from the external data file PMGZML.CSV
  * Reading PM Gas Carbon DR1 Levels
  * from the external data file PMGDR1.CSV
  * Reading PM Gas Carbon DR2 Levels

```

* * * * *
 * Rural other principal arterial- Catawba County-TDM-Q3
 * File 11, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.314	0.601	0.631	0.609	1.627	0.265	0.527	4.655	1.52	0.964

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.296	0.569	0.600	0.577	1.456	0.186	0.369	3.049	1.22	0.639
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector- Catawba County-TDM-Q3
* File 11, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.290	0.558	0.590	0.566	1.379	0.176	0.351	2.905	1.18	0.630

* * * * *
 * Rural local- Catawba County-TDM-Q3
 * File 11, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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Appendix C.3
December 18, 2009

The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

User supplied VMT mix.

The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

User supplied VMT mix.

The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

User supplied VMT mix.

The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

User supplied VMT mix.

The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1327		0.0519	0.0003	0.0019	0.1243	0.0049	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.312	0.599	0.629	0.607	1.617	0.257	0.511	4.518	1.49	1.063

* * * * *
* Urban freeway- Catawba County-TDM-Q3
* File 11, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014		Month: July		Altitude: Low							
Minimum Temperature:		66.8 (F)									
Maximum Temperature:		82.5 (F)									
Minimum Rel. Hum.:		56.5 (%)									
Maximum Rel. Hum.:		88.2 (%)									
Barometric Pressure:		30.00 (inches Hg)									
Nominal Fuel RVP:		9.0 psi									
Weathered RVP:		8.8 psi									
Fuel Sulfur Content:		30. ppm									
Exhaust I/M Program:		Yes									
Evap I/M Program:		Yes									
ATP Program:		Yes									
Reformulated Gas:		No									
Vehicle Type:		LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:		0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):											
Composite NOX :		0.299	0.575	0.606	0.583	1.487	0.192	0.381	3.443	1.23	0.769

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q3

* File 11, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.295	0.563	0.595	0.571	1.349	0.177	0.352	2.918	1.16	0.635

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q3
 * File 11, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.295	0.563	0.595	0.571	1.350	0.177	0.352	2.921	1.16	0.585

* * * * *
* Urban collector- Catawba County-TDM-Q3
* File 11, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July

Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.291	0.560	0.592	0.568	1.370	0.177	0.351	2.910	1.17	0.565

* * * * *
* Urban local- Catawba County-TDM-Q3
* File 11, Run 1, Scenario 12.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 36.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						


```

-----
VMT Distribution:  0.3288  0.4341  0.1479  -----  0.0239  0.0003  0.0022  0.0574  0.0054  -----  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :  0.291  0.560  0.591  0.568  1.391  0.177  0.353  2.920  1.19  0.634
-----

```

```

* * * * *
* Rural interstate- Catawba County-Rural-Q3
* File 11, Run 1, Scenario 13.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year:  2014
Month:  July
Altitude:  Low
Minimum Temperature:  66.8 (F)
Maximum Temperature:  82.5 (F)
Minimum Rel. Hum.:  56.5 (%)
Maximum Rel. Hum.:  88.2 (%)
Barometric Pressure:  30.00 (inches Hg)
Nominal Fuel RVP:  9.0 psi
Weathered RVP:  8.8 psi
Fuel Sulfur Content:  30. ppm
Exhaust I/M Program:  Yes

```

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Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.300	0.577	0.608	0.585	1.499	0.196	0.389	3.504	1.25	0.826

* * * * *
 * Rural minor arterial- Catawba County-Rural-Q3
 * File 11, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.298	0.573	0.604	0.581	1.477	0.190	0.377	3.123	1.23	0.751

* * * * *
* Rural major collector- Catawba County-Rural-Q3
* File 11, Run 1, Scenario 16.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.297	0.571	0.602	0.579	1.467	0.188	0.373	3.086	1.22	0.643

* * * * *
* Rural minor collector- Catawba County-Rural-Q3
* File 11, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (in)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.296	0.569	0.600	0.577	1.456	0.186	0.369	3.056	1.22	0.649

* * * * *

* Rural local- Catawba County-Rural-Q3

* File 11, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

** * * * * *
 * Urban freeway- Catawba County-Rural-Q3
 * File 11, Run 1, Scenario 20.
 * * * * *
 * Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.311	0.597	0.627	0.605	1.606	0.248	0.493	4.378	1.46	0.870

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-Rural-Q3
* File 11, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

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ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.295	0.563	0.595	0.571	1.350	0.177	0.352	2.921	1.16	0.585

* # # # # # # # # # # # # # # # #										
* Urban collector- Catawba County-Rural-Q3										
* File 11, Run 1, Scenario 23.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										

Calendar Year: 2014										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.296	0.565	0.597	0.573	1.338	0.178	0.353	2.926	1.15	0.570

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban local- Catawba County-Rural-Q3										
* File 11, Run 1, Scenario 24.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									

Calendar Year:	2014
Month:	July

On-road Mobile Source Emission Inventory Documentation
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```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: CARL4P3N.IN (file 31, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate- Catawba County-TDM-Q3  
* File 31, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	>6000								
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.426	0.784	0.782	0.784	1.670	0.307	0.610	5.351	1.62	1.643
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* * * * *
* Rural other principal arterial- Catawba County-TDM-Q3
* File 31, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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-----Composite Emission Factors (g/mi):-----
Composite NOX : 0.399 0.734 0.736 0.735 1.433 0.181 0.360 2.974 1.21 0.853
-----
* * * * *
* Rural major collector- Catawba County-TDM-Q3
* File 31, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
      User supplied VMT mix.
M583 Warning:
      The user supplied arterial average speed of 42.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M 48 Warning:
      there are no sales for vehicle class HDGV8b
M 48 Warning:
      there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.401	0.739	0.740	0.739	1.456	0.186	0.369	3.049	1.22	0.769
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector- Catawba County-TDM-Q3
* File 31, Run 1, Scenario 5.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3291	0.4344	0.1480	0.0237	0.0003	0.0022	0.0569	0.0054	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.395	0.727	0.729	0.728	1.379	0.176	0.351	2.905	1.18	0.759

* * * * *
 * Rural local- Catawba County-TDM-Q3
 * File 31, Run 1, Scenario 6.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.400	0.737	0.738	0.737	1.445	0.183	0.364	3.016	1.21	0.831

* * * * *
* Urban interstate- Catawba County-TDM-Q3
* File 31, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

there are no sales for vehicle class LDDT12

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2947	0.3893	0.1327	0.0519	0.0003	0.0019	0.1243	0.0049	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.419	0.772	0.771	0.772	1.617	0.257	0.511	4.518	1.49	1.180

* * * * *
* Urban freeway- Catawba County-TDM-Q3
* File 31, Run 1, Scenario 8.

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

- * Reading the Second PM Deterioration Rates
- * from the external data file PMDDR2.CSV
- * Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.404	0.745	0.745	0.745	1.487	0.192	0.381	3.443	1.23	0.893

* #
* Urban other principal arterial-Catawba County-TDM-Q3
* File 31, Run 1, Scenario 9.
* #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.401	0.733	0.735	0.734	1.349	0.177	0.352	2.918	1.16	0.765
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q3

* File 31, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.397	0.729	0.731	0.730	1.370	0.177	0.351	2.910	1.17	0.699

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q3

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Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:				(All)						
VMT Distribution:	0.2604	0.3437	0.1171		0.0802	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.427	0.786	0.785	0.786	1.681	0.319	0.635	5.554	1.65	1.685

* * * * *
 * Rural other principal arterial- Catawba County-Rural-Q3
 * File 31, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.406	0.747	0.748	0.747	1.499	0.196	0.389	3.504	1.25	0.947
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* * * * *

* Rural minor arterial- Catawba County-Rural-Q3

* File 31, Run 1, Scenario 15.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.403	0.743	0.744	0.743	1.477	0.190	0.377	3.123	1.23	0.874

* * * * *
 * Rural major collector- Catawba County-Rural-Q3
 * File 31, Run 1, Scenario 16.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.402	0.741	0.742	0.741	1.467	0.188	0.373	3.086	1.22	0.773

* * * * *
* Rural minor collector- Catawba County-Rural-Q3
* File 31, Run 1, Scenario 17.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:

VMT Distribution:	0.3291	0.4344	0.1480	>6000	0.0237	0.0003	0.0022	0.0569	0.0054	1.0000
-------------------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/ml):

Composite NOX :	0.401	0.739	0.740	0.739	1.456	0.186	0.369	3.056	1.22	0.778
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural local- Catawba County-Rural-Q3

* File 31, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0325	0.0003	0.0021	0.0777	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.401	0.739	0.740	0.739	1.456	0.186	0.369	3.054	1.22	0.836

* * * * *
 * Urban interstate- Catawba County-Rural-Q3
 * File 31, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels

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* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.418	0.770	0.769	0.769	1.606	0.248	0.493	4.378	1.46	0.996

* * * * *

* Urban other principal arterial-Catawba County-Rural-Q3

* File 31, Run 1, Scenario 21.

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Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDVT	HDDV	MC	All Veh
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										

Composite NOX : 0.409 0.742 0.745 0.743 1.317 0.179 0.356 2.952 1.13 0.774

* * * * *
* Urban minor arterial- Catawba County-Rural-Q3
* File 31, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3380	0.4465	0.1522	0.0162	0.0003	0.0022	0.0390	0.0056	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.401	0.733	0.735	0.734	1.350	0.177	0.352	2.921	1.16	0.718
* * * * *										
* Urban collector- Catawba County-Rural-Q3										
* File 31, Run 1, Scenario 23.										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2014										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.8 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.403 0.735 0.738 0.736 1.338 0.178 0.353 2.926 1.15 0.705

* * * * *
* Urban local- Catawba County-Rural-Q3
* File 31, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.403	0.735	0.738	0.736	1.338	0.178	0.353	2.924	1.15	0.768

```

CAT14P4.TXT
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: CAT14P4.IN (file 12, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII
* # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q4
* File 12, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels

```



```
M581 Warning: The user supplied freeway average speed of 58.0
               will be used for all hours of the day. 100% of VMT
               has been assigned to the freeway roadway type for
               all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LBDT12
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.368	0.753	0.819	0.770	1.574	0.254	0.512	4.539	2.18	1.058

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Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.341	0.715	0.781	0.732	1.408	0.178	0.358	2.967	1.75	0.742
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector- Catawba County-TDM-Q4
* File 12, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3291	0.4344	0.1480		0.0237	0.0003	0.0022	0.0569	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.330	0.701	0.768	0.718	1.334	0.169	0.341	2.827	1.70	0.730

* * * * *
 * Rural local- Catawba County-TDM-Q4
 * File 12, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0324	0.0003	0.0021	0.0778	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.339	0.712	0.779	0.729	1.398	0.176	0.354	2.935	1.75	0.803

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban interstate- Catawba County-TDM-Q4										
* File 12, Run 1, Scenario 7.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 57.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for									

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0519	0.0003	0.0020	0.1243	0.0049	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.366	0.750	0.817	0.767	1.564	0.246	0.496	4.407	2.14	1.149

* * * * *
* Urban freeway- Catawba County-TDM-Q4
* File 12, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3151	0.4160	0.1417	>6000	0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.345	0.721	0.788	0.738	1.439	0.184	0.370	3.364	1.77	0.865

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q4

* File 12, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.334	0.706	0.773	0.723	1.305	0.170	0.342	2.840	1.66	0.734

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q4
 * File 12, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.334	0.706	0.773	0.723	1.306	0.170	0.342	2.843	1.66	0.688

* * * * *
* Urban collector- Catawba County-TDM-Q4
* File 12, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.

Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.331	0.703	0.770	0.720	1.326	0.170	0.341	2.833	1.69	0.671

* * * * *
 * Urban local- Catawba County-TDM-Q4
 * File 12, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 36.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						


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-----
VMT Distribution:  0.3288  0.4341  0.1479  0.720  0.770  0.720  1.346  0.170  0.0022  0.0574  0.0054  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :  0.332  0.703  0.770  0.720  0.720  1.346  0.170  0.343  2.842  1.71  0.734
-----

```

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* * * * *
* Rural interstate- Catawba County-Rural-Q4
* File 12, Run 1, Scenario 13.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year:  2015
Month:  Jan.
Altitude:  Low
Minimum Temperature:  43.3 (F)
Maximum Temperature:  56.0 (F)
Minimum Rel. Hum.:  57.9 (%)
Maximum Rel. Hum.:  86.0 (%)
Barometric Pressure:  30.00 (inches Hg)
Nominal Fuel RVP:  14.0 psi
Weathered RVP:  14.0 psi
Fuel Sulfur Content:  30. ppm

Exhaust I/M Program:  Yes

```

Evap I/M Program:	Yes										
ATP Program:	Yes										
Reformulated Gas:	No										

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2604	0.3437	0.1171	0.0802	0.0017	0.0002	0.0017	0.1924	0.0043	1.0000

Composite Emission Factors (g/mi):	0.377	0.765	0.832	0.782	1.626	0.305	0.616	5.412	2.37	1.641
Composite NOX :										

* * * * *										
* Rural other principal arterial- Catawba County-Rural-Q4										
* File 12, Run 1, Scenario 14.										
* * * * *										
* * * * *										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural other principal arterial mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 46.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year:	2015									
Month:	Jan.									
Altitude:	Low									
Minimum Temperature:	43.3 (F)									
Maximum Temperature:	56.0 (F)									
Minimum Rel. Hum.:	57.9 (%)									
Maximum Rel. Hum.:	86.0 (%)									

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.347	0.724	0.790	0.741	1.450	0.188	0.378	3.424	1.79	0.918

* * * * *
* Rural minor arterial- Catawba County-Rural-Q4
* File 12, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.344	0.719	0.786	0.736	1.429	0.182	0.367	3.038	1.77	0.845

* * * * *
* Rural major collector- Catawba County-Rural-Q4
* File 12, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment : User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.342	0.717	0.783	0.734	1.419	0.180	0.363	3.002	1.76	0.746

* * * * *
* Rural minor collector- Catawba County-Rural-Q4
* File 12, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

	Altitude:	Low
Minimum Temperature:		43.3 (F)
Maximum Temperature:		56.0 (F)
Minimum Rel. Hum.:		57.9 (%)
Maximum Rel. Hum.:		86.0 (%)
Barometric Pressure:		30.00 (in)
Nominal Fuel RVP:		14.0 psi
Weathered RVP:		14.0 psi
Fuel Sulfur Content:		30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3291	0.4344	0.1480	0.0237	0.0033	0.0022	0.0569	0.0054	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.341	0.715	0.781	0.732	1.409	0.178	0.358	2.974	1.75	0.751

```
* * * * *
* Rural local- Catawba County-Rural-Q4
* File 12, Run 1, Scenario 18.
* * * * *
```

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

- * Reading PM Gas Carbon DR2 Levels
- * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.364	0.748	0.814	0.765	1.553	0.238	0.479	4.271	2.10	0.968

```

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q4
* File 12, Run 1, Scenario 21.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.334	0.706	0.773	0.723	1.306	0.170	0.342	2.843	1.66	0.688

* # # # # # # # # # # # # # # # #										
* Urban collector- Catawba County-Rural-Q4										
* File 12, Run 1, Scenario 23.										
* # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:										
	The user supplied arterial average speed of 31.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2015										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.335	0.708	0.775	0.725	1.295	0.170	0.343	2.848	1.65	0.675

* * * * *
* Urban local- Catawba County-Rural-Q4
* File 12, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment:

M583 Warning:
User supplied VMT mix.

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.335	0.708	0.775	0.725	1.294	0.170	0.343	2.845	1.65	0.736

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAR14P4N.IN (file 32, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q4
* File 32, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 62.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VMT Distribution: 0.2604 0.3437 0.1171 0.0802 0.0002 0.0017 0.1924 0.0043 1.0000

Composite Emission Factors (g/mi):

Composite NOX : 0.524 0.989 1.036 1.001 1.616 0.294 0.593 5.214 2.34 1.742

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q4
* File 32, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.516	0.977	1.024	0.989	1.574	0.254	0.512	4.539	2.18	1.223

* #

Calendar Year:	2015
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

</

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3306	0.4367	0.1488	0.0224	0.0003	0.0022	0.0535	0.0055	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.484	0.934	0.983	0.946	1.408	0.178	0.358	2.967	1.75	0.915

* * * * *
 * Rural minor collector- Catawba County-TDM-Q4
 * File 32, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3291	0.4344	0.1480	0.0237	0.0003	0.0022	0.0569	0.0054	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.472	0.919	0.969	0.931	1.334	0.169	0.341	2.827	1.70	0.900

* * * * *
 * Rural local- Catawba County-TDM-Q4
 * File 32, Run 1, Scenario 6.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.
 Altitude: Low

Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3183	0.4205	0.1433		0.0324	0.0003	0.0021	0.0778	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.482	0.931	0.980	0.943	1.398	0.176	0.354	2.935	1.75	0.969

* * * * *
 * Urban interstate- Catawba County-TDM-Q4
 * File 32, Run 1, Scenario 7.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.
 M581 Warning:

The user supplied freeway average speed of 57.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2947	0.3893	0.1326		0.0519	0.0003	0.0020	0.1243	0.0049	1.0000
Composite Emission Factors (g/ml):	0.514	0.974	1.021	0.986	1.564	0.246	0.496	4.407	2.14	1.307

* * * * *
* Urban freeway- Catawba County-TDM-Q4
* File 32, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.489	0.941	0.989	0.953	1.439	0.184	0.370	3.364	1.77	1.031

* # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-TDM-Q4
* File 32, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:		<6000	>6000							
VMT Distribution:	0.3289	0.4343	0.1480		0.0238	0.0003	0.0022	0.0571	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.476	0.924	0.975	0.937	1.305	0.170	0.342	2.840	1.66	0.905
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q4

* File 32, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3380	0.4465	0.1522		0.0162	0.0003	0.0022	0.0390	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.476	0.924	0.975	0.937	1.306	0.170	0.342	2.843	1.66	0.864

* # # # # # # # # # # # # # # # # # #
* Urban collector- Catawba County-TDM-Q4
* File 32, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2015
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:				(All)						
VMT Distribution:	0.2604	0.3437	0.1171	0.0802	0.0017	0.1924	0.0043	1.0000		

Composite Emission Factors (g/ml):										
Composite NOX :	0.526	0.992	1.039	1.004	1.626	0.305	0.616	5.412	2.37	1.783

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q4
* File 32, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3076	0.4065	0.1386		0.0412	0.0003	0.0020	0.0987	0.0051	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.491	0.944	0.992	0.956	1.450	0.188	0.378	3.424	1.79	1.080
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* * * * *
 * Rural minor arterial- Catawba County-Rural-Q4
 * File 32, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3134	0.4138	0.1410		0.0366	0.0003	0.0021	0.0876	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.487	0.939	0.987	0.951	1.429	0.182	0.367	3.038	1.77	1.009

* * * * *
 * Rural major collector- Catawba County-Rural-Q4
 * File 32, Run 1, Scenario 16.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3306	0.4367	0.1488		0.0224	0.0003	0.0022	0.0535	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.486	0.936	0.985	0.949	1.419	0.180	0.363	3.002	1.76	0.919

* * * * *
* Rural minor collector- Catawba County-Rural-Q4
* File 32, Run 1, Scenario 17.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2015

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
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GVWR:

VMT Distribution:	0.3291	0.4344	0.1480	>6000	0.0237	0.0003	0.0022	0.0569	0.0054	1.0000
-------------------	--------	--------	--------	-------	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/ml):

Composite NOX :	0.484	0.934	0.982	0.946	1.409	0.178	0.358	2.974	1.75	0.923
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* * * * *

* Rural local- Catawba County-Rural-Q4

* File 32, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2015
 Month: Jan.

Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3183	0.4205	0.1433		0.0324	0.0003	0.0021	0.0778	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.484	0.933	0.982	0.946	1.409	0.178	0.358	2.972	1.75	0.974

* * * * *
 * Urban interstate- Catawba County-Rural-Q4
 * File 32, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2947	0.3893	0.1326		0.0519	0.0003	0.0020	0.1243	0.0049	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.526	0.992	1.039	1.004	1.626	0.305	0.616	5.412	2.37	1.449

* * * * *

* Urban freeway- Catawba County-Rural-Q4

* File 32, Run 1, Scenario 20.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3151	0.4160	0.1417		0.0352	0.0003	0.0021	0.0844	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.511	0.971	1.018	0.983	1.553	0.238	0.479	4.271	2.10	1.137

* * * * *

* Urban other principal arterial-Catawba County-Rural-Q4

* File 32, Run 1, Scenario 21.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.3289 0.4343 0.1480
-----
Composite Emission Factors (g/ml):

```

Composite NOx : 0.482 0.934 0.985 0.947 1.274 0.172 0.346 2.873 1.62 0.914

* * * * *
* Urban minor arterial- Catawba County-Rural-Q4
* File 32, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3380	0.4465	0.1522	0.937	1.306	0.170	0.342	2.843	1.66	0.864

Composite Emission Factors (g/mi):										
Composite NOX :	0.476	0.924	0.975	0.937	1.306	0.170	0.342	2.843	1.66	0.864

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban collector- Catawba County-Rural-Q4	#	#	#	#	#	#	#	#	#	#
* File 32, Run 1, Scenario 23.	#	#	#	#	#	#	#	#	#	#
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR1 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon DR2 Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMGDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Reading PM Diesel Zero Mile Levels	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDZML.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the First PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR1.CSV	#	#	#	#	#	#	#	#	#	#
* Reading the Second PM Deterioration Rates	#	#	#	#	#	#	#	#	#	#
* from the external data file PMDDR2.CSV	#	#	#	#	#	#	#	#	#	#
* Urban collector mix and speeds	#	#	#	#	#	#	#	#	#	#
M615 Comment:	#	#	#	#	#	#	#	#	#	#
User supplied VMT mix.										
M583 Warning:	#	#	#	#	#	#	#	#	#	#
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:	#	#	#	#	#	#	#	#	#	#
there are no sales for vehicle class HDGV8b										
M 48 Warning:	#	#	#	#	#	#	#	#	#	#
there are no sales for vehicle class LDDT12										

Calendar Year: 2015										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3410	0.4502	0.1534		0.0139	0.0003	0.0023	0.0333	0.0056	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.477 0.926 0.978 0.939 1.295 0.170 0.343 2.848 1.65 0.853

* * * * *
* Urban local- Catawba County-Rural-Q4
* File 32, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2015
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3288	0.4341	0.1479		0.0239	0.0003	0.0022	0.0574	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.477	0.926	0.978	0.939	1.294	0.170	0.343	2.845	1.65	0.908

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2881	0.4210	0.1436		0.0411	0.0003	0.0021	0.0988	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.307	0.643	0.706	0.659	1.201	0.157	0.406	3.475	2.29	0.866

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							

VTM Distribution: 0.3097 0.4523 0.1542 0.0223 0.0003 0.0023 0.0023 0.0535 0.0054 1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.284	0.611	0.672	0.627	1.074	0.110	0.285	2.243	1.84	0.623
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* * * * *
 * Rural minor collector- Catawba County-TDM-Q1
 * File 13, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.275	0.600	0.661	0.615	1.018	0.105	0.271	2.136	1.78	0.612

* * * * *
 * Rural local- Catawba County-TDM-Q1
 * File 13, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0324	0.0003	0.0022	0.0779	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.282	0.609	0.670	0.624	1.066	0.109	0.281	2.217	1.83	0.666

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban interstate- Catawba County-TDM-Q1										
* File 13, Run 1, Scenario 7.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for									

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0518	0.0002	0.0020	0.1245	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.302	0.636	0.699	0.652	1.177	0.142	0.366	3.167	2.17	0.903

* * * * *
* Urban freeway- Catawba County-TDM-Q1
* File 13, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2950	0.4309	0.1468	0.632	1.097	0.114	0.294	2.613	1.86	0.720
Composite Emission Factors (g/ml):										
Composite NOX :	0.288	0.616	0.678	0.632	1.097	0.114	0.294	2.613	1.86	0.720

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q1

* File 13, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4498	0.1533		0.0238	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.279	0.605	0.667	0.621	0.987	0.106	0.272	2.150	1.73	0.617

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q1
 * File 13, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.279	0.605	0.667	0.621	0.988	0.106	0.272	2.152	1.73	0.584

* * * * *
* Urban collector- Catawba County-TDM-Q1
* File 13, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590		0.0138	0.0003	0.0023	0.0335	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.277	0.602	0.664	0.618	1.004	0.105	0.271	2.146	1.76	0.571

* * * * *
 * Urban local- Catawba County-TDM-Q1
 * File 13, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning: The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.3080	0.4496	0.1533	0.0238	0.0003	0.0023	0.0574	0.0053	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.275	0.600	0.661	0.615	1.018	0.105	0.271	2.137	1.78	0.613
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* * * * *

* Rural interstate- Catawba County-Rural-Q1

* File 13, Run 1, Scenario 13.

* * * * *

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* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* * * * *

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* * * * *

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* * * * *

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* * * * *

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* * * * *

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* * * * *

* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2881	0.4210	0.1436	0.0411	0.0003	0.0021	0.0988	0.0050	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.289	0.619	0.680	0.634	1.106	0.116	0.300	2.657	1.88	0.760

* * * * *
* Rural minor arterial- Catawba County-Rural-Q1
* File 13, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.2934	0.4287	0.1461		0.0365	0.0003	0.0022	0.0877	0.0051	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.286	0.615	0.676	0.630	1.090	0.113	0.291	2.294	1.85	0.697

* * * * *
* Rural major collector- Catawba County-Rural-Q1
* File 13, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.285	0.613	0.674	0.628	1.082	0.112	0.288	2.269	1.85	0.626

* * * * *
* Rural minor collector- Catawba County-Rural-Q1
* File 13, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:

M 48 Warning:

M 48 Warning:

| tr | |

Altitude: Low

Maximum Temperature: 54.8 (F)

Maximum Rel. Hum.: 76.1 (%)

Nominal Fuel RVP:	14.0 psi
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el Sulfur Content: 30. ppm

haust I/M Program: Yes

Event	ATP Program	Yes
ATP Program	Yes	Yes

RETORTABLE GAS. NO

type:	LDGV
VWR:	<6000

VMT Distribution:	0.3080	0.4500	0.1533	0.0237	0.0003	0.0023	0.0571	0.0053	1.0000
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Composite NOx :	0.284	0.611	0.672	0.627	1.075	0.110	0.285	2.244	1.84	0.629
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* File 13, Run 1, Scenario 18.

* from the external data file PMGZML.CSV

* from the external data file PMGDR1.csv

* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels

* Reading the First PM Deterioration Rates

Calendar Year:	2017
Month:	Jan.
Altitude:	36.8
Minimum Temperature:	54.8
Maximum Temperature:	75.4
Minimum Rel. Hum.:	47.4
Maximum Rel. Hum.:	76.1
Barometric Pressure:	30.00
Nominal Fuel RVP:	14.0
Weathered RVP:	14.0
Fuel Sulfur Content:	30.
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

* * * * *
 * Urban freeway- Catawba County-Rural-Q1
 * File 13, Run 1, Scenario 20.
 * * * * *
 * Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low

Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.304	0.639	0.701	0.655	1.185	0.147	0.380	3.278	2.21	0.799

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-Rural-Q1
* File 13, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban principal arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 29.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

On-road Mobile Source Emission Inventory Documentation
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Redesignation Demonstration and Maintenance Plan

Altitude:	Low
Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)
Maximum Rel. Hum.:	76.1 (%)
Barometric Pressure:	30.00 (in)

Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590		0.0138	0.0003	0.0023	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.279	0.605	0.667	0.621	0.988	0.106	0.272	2.154	1.73	0.573

* * * * *
 * Urban local- Catawba County-Rural-Q1
 * File 13, Run 1, Scenario 24.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

On-road Mobile Source Emission Inventory Documentation
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```
*****  
** MOBILE6.2.O3 (24-Sep-2003)  
** Input file: CARL7PIN.IN (file 33, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999     MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate- Catawba County-TDM-Q1  
* File 33, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0800	0.0002	0.0018	0.1926	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.472	0.901	0.937	0.910	1.216	0.167	0.430	3.667	2.37	1.364

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q1
* File 33, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2017
Month:	Jan.
Altitude:	Low
Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)
Maximum Rel. Hum.:	76.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
VMT Distribution:	0.2934	0.4287	0.1461		0.0365	0.0003	0.0022	0.0877	0.0051	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite NOx : 0.435 0.850 0.887 0.860 1.050 0.107 0.276 2.179 1.82 0.861
-----

* * * * *
* Rural major collector- Catawba County-TDM-Q1
* File 33, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.440	0.857	0.893	0.866	1.074	0.110	0.285	2.243	1.84	0.816
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector- Catawba County-TDM-Q1
* File 33, Run 1, Scenario 5.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.429	0.843	0.880	0.853	1.018	0.105	0.271	2.136	1.78	0.803

* * * * *
 * Rural local- Catawba County-TDM-Q1
 * File 33, Run 1, Scenario 6.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.
 Altitude: Low

Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0324	0.0003	0.0022	0.0779	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.438	0.854	0.891	0.864	1.066	0.109	0.281	2.217	1.83	0.852

* * * * *
* Urban interstate- Catawba County-TDM-Q1
* File 33, Run 1, Scenario 7.

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0518	0.0002	0.0020	0.1245	0.0048	1.0000
Composite Emission Factors (g/ml):	0.462	0.888	0.923	0.897	1.177	0.142	0.366	3.167	2.17	1.079

* * * * *
* Urban freeway- Catawba County-TDM-Q1
* File 33, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.445	0.863	0.899	0.873	1.097	0.114	0.294	2.613	1.86	0.905

* # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-TDM-Q1
* File 33, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.3080	0.4498	0.1533		0.0238	0.0003	0.0023	0.0572	0.0053	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.434	0.851	0.889	0.860	0.987	0.106	0.272	2.150	1.73	0.809
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q1

* File 33, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590		0.0138	0.0003	0.0023	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.432	0.847	0.884	0.856	1.004	0.105	0.271	2.146	1.76	0.769

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q1

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.2437	0.3561	0.1214		0.0800	0.0002	0.0018	0.1926	0.0042	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.477	0.910	0.945	0.919	1.241	0.189	0.489	4.116	2.49	1.458

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q1
* File 33, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0411	0.0003	0.0021	0.0988	0.0050	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.447	0.866	0.902	0.875	1.106	0.116	0.300	2.657	1.88	0.941
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* * * * *
 * Rural minor arterial- Catawba County-Rural-Q1
 * File 33, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2934	0.4287	0.1461		0.0365	0.0003	0.0022	0.0877	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.443	0.861	0.897	0.871	1.090	0.113	0.291	2.294	1.85	0.882

* * * * *
* Rural major collector- Catawba County-Rural-Q1
* File 33, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.441	0.859	0.895	0.868	1.082	0.112	0.288	2.269	1.85	0.820

* * * * *
* Rural minor collector- Catawba County-Rural-Q1
* File 33, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4500	0.1533	>6000	0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.440	0.857	0.893	0.866	1.075	0.110	0.285	2.244	1.84	0.822

* * * * *
* Rural local- Catawba County-Rural-Q1
* File 33, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: Jan.

Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0324	0.0003	0.0022	0.0779	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.440	0.857	0.893	0.866	1.075	0.110	0.285	2.244	1.84	0.857

* * * * *
 * Urban interstate- Catawba County-Rural-Q1
 * File 33, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0518	0.0002	0.0020	0.1245	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.477	0.910	0.945	0.919	1.241	0.189	0.489	4.114	2.49	1.218

* * * * *

* Urban freeway- Catawba County-Rural-Q1

* File 33, Run 1, Scenario 20.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.464	0.891	0.926	0.900	1.185	0.147	0.380	3.278	2.21	0.988

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q1
* File 33, Run 1, Scenario 21.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.3080 0.4498 0.1533
-----
Composite Emission Factors (g/ml):

```

Composite NOX : 0.438 0.857 0.896 0.867 0.972 0.107 0.275 2.170 1.70 0.815

* * * * *
* Urban minor arterial- Catawba County-Rural-Q1
* File 33, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
VTM Distribution:	0.3164	0.4625	0.1577	-----	0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.433	0.849	0.886	0.858	0.996	0.105	0.272	2.148	1.74	0.780

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban collector- Catawba County-Rural-Q1										
* File 33, Run 1, Scenario 23.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2017										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 36.8 (F)										
Maximum Temperature: 54.8 (F)										
Minimum Rel. Hum.: 47.4 (%)										
Maximum Rel. Hum.: 76.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3192	0.4664	0.1590		0.0138	0.0003	0.0023	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.434 0.851 0.889 0.860 0.988 0.106 0.272 2.154 1.73 0.772

* * * * *
* Urban local- Catawba County-Rural-Q1
* File 33, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.434	0.851	0.889	0.860	0.987	0.106	0.272	2.151	1.73	0.809

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.5 psi
Weathered RVP:	10.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:										
VMT Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.247	0.507	0.543	0.516	1.039	0.161	0.408	3.295	1.82	1.033

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q2
* File 14, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.245	0.504	0.539	0.513	1.026	0.152	0.385	3.122	1.76	0.721

* # # # # # # # # # # # # # # # #																						
* Rural minor arterial- Catawba County-TDM-Q2																						
* File 14, Run 1, Scenario 3.																						
* # # # # # # # # # # # # # # # #																						
* Reading PM Gas Carbon ZML Levels																						
* from the external data file PMGZML.CSV																						
* Reading PM Gas Carbon DR1 Levels																						
* from the external data file PMGDR1.CSV																						
* Reading PM Gas Carbon DR2 Levels																						
* from the external data file PMGDR2.CSV																						
* Reading PM Diesel Zero Mile Levels																						
* from the external data file PMDZML.CSV																						
* Reading the First PM Deterioration Rates																						
* from the external data file PMDDR1.CSV																						
* Reading the Second PM Deterioration Rates																						
* from the external data file PMDDR2.CSV																						
* Rural minor arterial mix and speeds																						
M615 Comment:																						
User supplied VMT mix.																						
M583 Warning:																						
The user supplied arterial average speed of 39.0																						
will be used for all hours of the day. 100% of VMT																						
has been assigned to the arterial/collector roadway																						
type for all hours of the day and all vehicle types.																						
M 48 Warning:																						
there are no sales for vehicle class HDGV8b																						
M 48 Warning:																						
there are no sales for vehicle class LDDT12																						
Calendar Year: 2017 Month: July Altitude: Low Minimum Temperature: 58.3 (F) Maximum Temperature: 76.6 (F) Minimum Rel. Hum.: 47.6 (%) Maximum Rel. Hum.: 86.3 (%) Barometric Pressure: 30.00 (inches Hg) Nominal Fuel RVP: 10.5 psi Weathered RVP: 10.5 psi Fuel Sulfur Content: 30. ppm Exhaust I/M Program: Yes Evap I/M Program: Yes ATP Program: Yes Reformulated Gas: No																						
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh												

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VTM Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.228	0.478	0.512	0.486	0.918	0.106	0.270	2.019	1.41	0.503

* * * * *
 * Rural minor collector- Catawba County-TDM-Q2
 * File 14, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.222	0.468	0.502	0.477	0.869	0.101	0.257	1.922	1.37	0.495

* * * * *
 * Rural local- Catawba County-TDM-Q2
 * File 14, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.241	0.499	0.534	0.508	1.005	0.137	0.347	2.844	1.66	0.756

* * * * *
* Urban freeway- Catawba County-TDM-Q2
* File 14, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017		Month: July		Altitude: Low							
Minimum Temperature:		58.3 (F)									
Maximum Temperature:		76.6 (F)									
Minimum Rel. Hum.:		47.6 (%)									
Maximum Rel. Hum.:		86.3 (%)									
Barometric Pressure:		30.00 (inches Hg)									
Nominal Fuel RVP:		10.5 psi									
Weathered RVP:		10.5 psi									
Fuel Sulfur Content:		30. ppm									
Exhaust I/M Program:		Yes									
Evap I/M Program:		Yes									
ATP Program:		Yes									
Reformulated Gas:		No									
Vehicle Type:		LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		-----	<6000	>6000	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:		0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi):											
Composite NOX :		0.231	0.482	0.516	0.491	0.937	0.110	0.279	2.344	1.43	0.591

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q2

* File 14, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4498	0.1533		0.0237	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.227	0.473	0.508	0.482	0.843	0.102	0.258	1.935	1.33	0.499

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q2
 * File 14, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.227	0.473	0.508	0.482	0.843	0.102	0.258	1.937	1.33	0.468

* * * * *
* Urban collector- Catawba County-TDM-Q2
* File 14, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.224	0.471	0.505	0.479	0.857	0.101	0.257	1.932	1.35	0.456

* * * * *
 * Urban local- Catawba County-TDM-Q2
 * File 14, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.3080	0.4496	0.1533	0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.222	0.468	0.502	0.477	0.869	0.101	0.257	1.923	1.37

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural interstate- Catawba County-Rural-Q2									
* File 14, Run 1, Scenario 13.									
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural interstate mix and speeds									
M615 Comment:	User supplied VMT mix.								
M581 Warning:	The user supplied freeway average speed of 63.0								
	will be used for all hours of the day. 100% of VMT								
	has been assigned to the freeway roadway type for								
	all hours of the day and all vehicle types.								
M 48 Warning:	there are no sales for vehicle class HDGV8b								
M 48 Warning:	there are no sales for vehicle class LDDT12								
Calendar Year: 2017									
Month: July									
Altitude: Low									
Minimum Temperature: 58.3 (F)									
Maximum Temperature: 76.6 (F)									
Minimum Rel. Hum.: 47.6 (%)									
Maximum Rel. Hum.: 86.3 (%)									
Barometric Pressure: 30.00 (inches Hg)									
Nominal Fuel RVP: 10.5 psi									
Weathered RVP: 10.5 psi									
Fuel Sulfur Content: 30. ppm									
Exhaust I/M Program: Yes									

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Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.232	0.484	0.518	0.493	0.944	0.112	0.285	2.384	1.45	0.627

* * * * *
* Rural minor arterial- Catawba County-Rural-Q2
* File 14, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2934	0.4287	0.1461		0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.230	0.481	0.515	0.489	0.931	0.109	0.276	2.065	1.42	0.572

* * * * *

* Rural major collector- Catawba County-Rural-Q2

* File 14, Run 1, Scenario 16.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.229	0.479	0.513	0.488	0.924	0.107	0.273	2.042	1.42	0.505

* * * * *
* Rural minor collector- Catawba County-Rural-Q2
* File 14, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

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* Reading the First PM Deterioration Rates

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.243	0.501	0.535	0.510	1.012	0.142	0.360	2.944	1.70	0.660

```

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q2
* File 14, Run 1, Scenario 21.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.225	0.472	0.506	0.481	0.851	0.101	0.258	1.933	1.34	0.467

* # # # # # # # # # # # # # # # # # #										
* Urban collector- Catawba County-Rural-Q2										
* File 14, Run 1, Scenario 23.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:										
	The user supplied arterial average speed of 31.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2017										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.227	0.473	0.508	0.482	0.844	0.102	0.258	1.939	1.33	0.458

* * * * *
 * Urban local- Catawba County-Rural-Q2
 * File 14, Run 1, Scenario 24.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.227	0.473	0.508	0.482	0.843	0.102	0.258	1.936	1.33	0.499

CAT17P2N.TXT

* MOBIL6.2.03 (24-Sep-2003) *
* Input file: CAT17P2N.IN (file 34, run 1). *

* Reading Registration Distributions from the following external

* data file: NCAGE07.PRN

M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)

* #
* Rural interstate- Catawba County-TDM-Q2
* File 34, Run 1, Scenario 1.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.5 psi
Weathered RVP:	10.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* * * * *
* * Rural principal arterial - Catawba County -TDM-Q2
* * File 34, Run 1, Scenario 2.
* * * * *
*
* Reading PM Gas Carbon ZML Levels

```


* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 58.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.372	0.721	0.712	0.719	1.026	0.152	0.385	3.122	1.76	0.874

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural minor arterial- Catawba County-TDM-Q2
* File 34, Run 1, Scenario 3.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural minor arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								

VTM Distribution:	0.2934	0.4287	0.1461	0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/mi):									
Composite NOX :	0.349	0.683	0.676	0.681	0.103	0.262	1.961	1.40	0.706

* # # # # # # # # # # # # # # # # # # #									
* Rural major collector- Catawba County-TDM-Q2									
* File 34, Run 1, Scenario 4.									
* # # # # # # # # # # # # # # # # # # #									
* # # # # # # # # # # # # # # # # # # #									
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural major collector mix and speeds									
M615 Comment:									
User supplied VMT mix.									
M583 Warning:									
The user supplied arterial average speed of 42.0									
will be used for all hours of the day. 100% of VMT									
has been assigned to the arterial/collector roadway									
type for all hours of the day and all vehicle types.									
M 48 Warning:									
there are no sales for vehicle class HDGV8b									
M 48 Warning:									
there are no sales for vehicle class LDDT12									
Calendar Year: 2017									
Month: July									
Altitude: Low									
Minimum Temperature: 58.3 (F)									
Maximum Temperature: 76.6 (F)									
Minimum Rel. Hum.: 47.6 (%)									
Maximum Rel. Hum.: 86.3 (%)									
Barometric Pressure: 30.00 (inches Hg)									
Nominal Fuel RVP: 10.5 psi									
Weathered RVP: 10.5 psi									
Fuel Sulfur Content: 30. ppm									
Exhaust I/M Program: No									
Evap I/M Program: No									

Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3080	0.4500	0.1533	>6000	0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.345	0.677	0.670	0.676	0.869	0.101	0.257	1.922	1.37	0.652

* * * * *
* Rural local- Catawba County-TDM-Q2
* File 34, Run 1, Scenario 6.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July

Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0323	0.0003	0.0022	0.0780	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.351	0.686	0.679	0.684	0.911	0.105	0.266	1.996	1.41	0.697

* * * * *	* * * * *	* * * * *	* * * * *							
* Urban interstate- Catawba County-TDM-Q2										
* File 34, Run 1, Scenario 7.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment:	User supplied VMT mix.									
M581 Warning:	The user supplied freeway average speed of 55.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the freeway roadway type for									
	all hours of the day and all vehicle types.									
M 48 Warning:										

M 48 Warning: there are no sales for vehicle class HDGV8b
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.368	0.714	0.706	0.712	1.005	0.137	0.347	2.844	1.66	0.902

* * * * *
* Urban freeway- Catawba County-TDM-Q2
* File 34, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 45.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.355	0.694	0.686	0.692	0.937	0.110	0.279	2.344	1.43	0.744

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban other principal arterial-Catawba County-TDM-Q2										
* File 34, Run 1, Scenario 9.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4498	0.1533		0.0237	0.0003	0.0023	0.0573	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.350	0.684	0.677	0.682	0.843	0.102	0.258	1.935	1.33	0.658

* * * * *
* Urban minor arterial- Catawba County-TDM-Q2
* File 34, Run 1, Scenario 10.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.350	0.684	0.677	0.682	0.843	0.102	0.258	1.937	1.33	0.631

* * * * *
* Urban collector- Catawba County-TDM-Q2
* File 34, Run 1, Scenario 11.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.5 psi
Weathered RVP:	10.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:	0.3080	0.4496	0.1533	0.0238	0.0003	0.0023	0.0574	0.0053	1.0000
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-----Composite Emission Factors (g/mi):									
Composite NOX :	0.345	0.677	0.670	0.676	0.869	0.101	0.257	1.923	1.37

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* Rural interstate- Catawba County-Rural-Q2									
* File 34, Run 1, Scenario 13.									
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* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural interstate mix and speeds									
M615 Comment:									
User supplied VMT mix.									
M581 Warning:									
The user supplied freeway average speed of 63.0									
will be used for all hours of the day. 100% of VMT									
has been assigned to the freeway roadway type for									
all hours of the day and all vehicle types.									
M 48 Warning:									
there are no sales for vehicle class HDGV8b									
M 48 Warning:									
there are no sales for vehicle class LDDT12									
Calendar Year: 2017									
Month: July									
Altitude: Low									
Minimum Temperature: 58.3 (F)									
Maximum Temperature: 76.6 (F)									
Minimum Rel. Hum.: 47.6 (%)									
Maximum Rel. Hum.: 86.3 (%)									
Barometric Pressure: 30.00 (inches Hg)									
Nominal Fuel RVP: 10.5 psi									
Weathered RVP: 10.5 psi									
Fuel Sulfur Content: 30. ppm									
Exhaust I/M Program: No									
Evap I/M Program: No									
ATP Program: Yes									

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.379	0.732	0.723	0.730	1.059	0.182	0.463	3.700	1.91	1.247
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* * * * *
* Rural other principal arterial- Catawba County-Rural-Q2
* File 34, Run 1, Scenario 14.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.357 0.696 0.688 0.694 0.944 0.112 0.285 2.384 1.45 0.777

* * * * *
 * Rural minor arterial- Catawba County-Rural-Q2
 * File 34, Run 1, Scenario 15.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12
 Calendar Year: 2017
 Month: July
 Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2934	0.4287	0.1461		0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.354	0.692	0.684	0.690	0.931	0.109	0.276	2.065	1.42	0.724

* * * * *
* Rural major collector- Catawba County-Rural-Q2
* File 34, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds

M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000
Composite Emission Factors (g/ml):	0.353	0.690	0.683	0.688	0.924	0.107	0.273	2.042	1.42	0.665

* * * * *
* Rural minor collector- Catawba County-Rural-Q2
* File 34, Run 1, Scenario 17.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.352	0.688	0.681	0.686	0.918	0.106	0.270	2.020	1.41	0.668

* # # # # # # # # # # # # # # # # # #

* Rural local- Catawba County-Rural-Q2

* File 34, Run 1, Scenario 18.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.2981	0.4355	0.1484		0.0323	0.0003	0.0022	0.0780	0.0052	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.352	0.688	0.681	0.686	0.918	0.106	0.270	2.020	1.41	0.701
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* #
 * Urban interstate- Catawba County-Rural-Q2
 * File 34, Run 1, Scenario 19.
 * #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.379	0.732	0.723	0.730	1.059	0.182	0.463	3.698	1.91	1.025

* # # # # # # # # # # # # # # # # # #
* Urban freeway- Catawba County-Rural-Q2
* File 34, Run 1, Scenario 20.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.369	0.717	0.708	0.715	1.012	0.142	0.360	2.944	1.70	0.816

* # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-Rural-Q2

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5} Redesignation Demonstration and Maintenance Plan

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Appendix C.3
December 18, 2009

Composite Emission Factors (g/mi):					
Composite NO _x :	0.354	0.690	0.683	0.688	0.830
					0.103
					0.261
					1.953
					1.31
					0.663

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* * * * *
* Urban minor arterial- Catawba County-Rural-Q2
* File 34, Run 1, Scenario 22.
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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDRI.CSV

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* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.csv
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* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

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* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
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* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
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* Urban minor arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 32.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LPDT12

Calendar Year: 2017
Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

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aust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

there are no sales for vehicle class LDDT12

	Altitude:	Low
Minimum Temperature:	58.3	(F)
Maximum Temperature:	76.6	(F)
Minimum Rel. Hum.:	47.6	(%)
Maximum Rel. Hum.:	86.3	(%)
Barometric Pressure:	30.00	(in)
Nominal Fuel RVP:	10.5	psi
Weathered RVP:	10.5	psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.350	0.684	0.677	0.682	0.844	0.102	0.258	1.939	1.33	0.623
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* * * * *

* Urban local- Catawba County-Rural-Q2

* File 34, Run 1, Scenario 24.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban local mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VT Distribution:	0.3080	0.4496	0.1533		0.0238	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.350	0.684	0.677	0.682	0.843	0.102	0.258	1.936	1.33	0.658

CAT17P3.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: CAT17P3.IN (file 15, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
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* # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q3
* File 15, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.224	0.453	0.486	0.461	1.060	0.152	0.385	3.122	1.52	0.686

* # # # # # # # # # # # # # # # #											
* Rural minor arterial- Catawba County-TDM-Q3											
* File 15, Run 1, Scenario 3.											
* # # # # # # # # # # # # # # # #											
* Reading PM Gas Carbon ZML Levels											
* from the external data file PMGZML.CSV											
* Reading PM Gas Carbon DR1 Levels											
* from the external data file PMGDR1.CSV											
* Reading PM Gas Carbon DR2 Levels											
* from the external data file PMGDR2.CSV											
* Reading PM Diesel Zero Mile Levels											
* from the external data file PMDZML.CSV											
* Reading the First PM Deterioration Rates											
* from the external data file PMDDR1.CSV											
* Reading the Second PM Deterioration Rates											
* from the external data file PMDDR2.CSV											
* Rural minor arterial mix and speeds											
M615 Comment:											
User supplied VMT mix.											
M583 Warning:											
The user supplied arterial average speed of 39.0											
will be used for all hours of the day. 100% of VMT											
has been assigned to the arterial/collector roadway											
type for all hours of the day and all vehicle types.											
M 48 Warning:											
there are no sales for vehicle class HDGV8b											
M 48 Warning:											
there are no sales for vehicle class LDDT12											
Calendar Year: 2017											
Month: July											
Altitude: Low											
Minimum Temperature: 66.8 (F)											
Maximum Temperature: 82.5 (F)											
Minimum Rel. Hum.: 56.5 (%)											
Maximum Rel. Hum.: 88.2 (%)											
Barometric Pressure: 30.00 (inches Hg)											
Nominal Fuel RVP: 9.0 psi											
Weathered RVP: 8.8 psi											
Fuel Sulfur Content: 30. ppm											
Exhaust I/M Program: Yes											
Evap I/M Program: Yes											
ATP Program: Yes											
Reformulated Gas: No											
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh	

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Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
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GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.211	0.429	0.461	0.437	0.948	0.106	0.270	2.019	1.22	0.467
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* * * * *
* Rural minor collector- Catawba County-TDM-Q3
* File 15, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 35.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)

Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.207	0.420	0.452	0.428	0.899	0.101	0.257	1.922	1.18	0.460

* * * * *
 * Rural local- Catawba County-TDM-Q3
 * File 15, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

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Redesignation Demonstration and Maintenance Plan

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Appendix C.3
December 18, 2009

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 55.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.222	0.448	0.480	0.456	1.039	0.137	0.347	2.844	1.43	0.724

* * * * *
* Urban freeway- Catawba County-TDM-Q3
* File 15, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/ml):
Composite NOX : 0.214 0.433 0.465 0.441 0.969 0.110 0.279 2.344 1.23 0.557

* * * * *
* Urban other principal arterial-Catawba County-TDM-Q3
* File 15, Run 1, Scenario 9.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4498	0.1533		0.0237	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.212	0.425	0.458	0.434	0.872	0.102	0.258	1.935	1.15	0.465

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q3
 * File 15, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.212	0.425	0.458	0.434	0.872	0.102	0.258	1.937	1.15	0.433

* * * * *
* Urban collector- Catawba County-TDM-Q3
* File 15, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.209	0.423	0.455	0.431	0.886	0.101	0.257	1.932	1.16	0.420

* * * * *
* Urban local- Catawba County-TDM-Q3
* File 15, Run 1, Scenario 12.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
HDGV HDDV LDDT HDDV MC All Veh


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-----
VMT Distribution:  0.3080  0.4496  0.1533  -----  0.0238  0.0003  0.0023  0.0574  0.0053  -----  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :  0.207  0.420  0.452  0.428  0.899  0.101  0.257  1.923  1.18  0.461
-----

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* * * * *
* Rural interstate- Catawba County-Rural-Q3
* File 15, Run 1, Scenario 13.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year:  2017
Month:  July
Altitude:  Low
Minimum Temperature:  66.8 (F)
Maximum Temperature:  82.5 (F)
Minimum Rel. Hum.:  56.5 (%)
Maximum Rel. Hum.:  88.2 (%)
Barometric Pressure:  30.00 (inches Hg)
Nominal Fuel RVP:  9.0 psi
Weathered RVP:  8.8 psi
Fuel Sulfur Content:  30. ppm
Exhaust I/M Program:  Yes

```

Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2437	0.3561	0.1214	0.0799	0.0002	0.0018	0.1927	0.0042	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.228	0.461	0.494	0.469	1.095	0.182	0.463	3.700	1.65	1.088

* * * * *
 * Rural other principal arterial- Catawba County-Rural-Q3
 * File 15, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.214	0.435	0.466	0.443	0.976	0.112	0.285	2.384	1.25	0.594

* * * * *
* Rural minor arterial- Catawba County-Rural-Q3
* File 15, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2934	0.4287	0.1461		0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.213	0.432	0.463	0.440	0.962	0.109	0.276	2.065	1.23	0.538

* * * * *
* Rural major collector- Catawba County-Rural-Q3
* File 15, Run 1, Scenario 16.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):	0.212	0.430	0.462	0.438	0.955	0.107	0.273	2.042	1.22	0.469

* * * * *
* Rural minor collector- Catawba County-Rural-Q3
* File 15, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:

M 48 Warning:

M 48 Warning:

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Month: July

Fuel Sulfur Content: 30. ppm

GVWR:	<6000	>6000	(All)
GVWR:	<6000	>6000	(All)

VMI Distribution:	0.3080	0.4500	0.1533	0.0237	0.0003	0.0023	0.0571	0.0053	1.0000
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	0.211	0.429	0.460	0.437	0.949	0.106	0.270	2.020	1.22	0.474
Composite NOX :	0.211	0.429	0.460	0.437	0.949	0.106	0.270	2.020	1.22	0.474

* Rural local- Catawba County-Rural-Q3

[illegible]

* from the external data file PMGZML.CSV

* from the external data file PMGDR1.CSV

* from the external data file PMGDR2.csv

* from the external data file `PMDZML.csv`

* Reading the First PM Deterioration Rates

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

** * * * * *
 * Urban freeway- Catawba County-Rural-Q3
 * File 15, Run 1, Scenario 20.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.223	0.450	0.482	0.458	1.046	0.142	0.360	2.944	1.46	0.624

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-Rural-Q3
* File 15, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban principal arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 29.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.211	0.424	0.456	0.432	0.879	0.101	0.258	1.933	1.16	0.432

* # # # # # # # # # # # # # # # # # # #										
* Urban collector- Catawba County-Rural-Q3										
* File 15, Run 1, Scenario 23.										
* # # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										

Calendar Year: 2017										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.212	0.425	0.458	0.434	0.872	0.102	0.258	1.939	1.15	0.423

* * * * *
* Urban local- Catawba County-Rural-Q3
* File 15, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

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Month: July

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```
* * MOBILE6.2.03 (24-Sep-2003) *
** Input file: CARL7P3N.IN (file 35, run 1). **
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)
M 49 Warning:      1.00     MYR sum not = 1. (will normalize)
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q3
* File 35, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.341	0.651	0.645	0.650	1.074	0.161	0.408	3.295	1.57	1.121

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q3
* File 35, Run 1, Scenario 2.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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Composite Emission Factors (g/mi):
Composite NOx :    0.322    0.613    0.608    0.612    0.927    0.103    0.262    1.961    1.20    0.659
-----

* * * * *
* Rural major collector- Catawba County-TDM-Q3
* File 35, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 42.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

    Calendar Year: 2017
    Month: July
    Altitude: Low
    Minimum Temperature: 66.8 (F)
    Maximum Temperature: 82.5 (F)
    Minimum Rel. Hum.: 56.5 (%)
    Maximum Rel. Hum.: 88.2 (%)
    Barometric Pressure: 30.00 (inches Hg)
    Nominal Fuel RVP: 9.0 psi
    Weathered RVP: 8.8 psi
    Fuel Sulfur Content: 30. ppm

    Exhaust I/M Program: No
    Evap I/M Program: No
    ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3097	0.4523	0.1542	0.0223	0.0003	0.0023	0.0535	0.0054	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.324	0.618	0.613	0.617	0.948	0.106	0.270	2.019	1.22	0.611

* * * * *
 * Rural minor collector- Catawba County-TDM-Q3
 * File 35, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3080	0.4500	0.1533		0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.320	0.608	0.604	0.607	0.899	0.101	0.257	1.922	1.18	0.603

* * * * *
 * Rural local- Catawba County-TDM-Q3
 * File 35, Run 1, Scenario 6.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0323	0.0003	0.0022	0.0780	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.323	0.616	0.611	0.615	0.941	0.105	0.266	1.996	1.21	0.648

* * * * *
* Urban interstate- Catawba County-TDM-Q3
* File 35, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/ml):	0.336	0.642	0.636	0.640	1.039	0.137	0.347	2.844	1.43	0.855

* * * * *
 * Urban freeway- Catawba County-TDM-Q3
 * File 35, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:
 User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0351	0.0003	0.0022	0.0846	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.327	0.623	0.618	0.622	0.969	0.110	0.279	2.344	1.23	0.695

* # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-TDM-Q3
* File 35, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000	(All)	0.0237	0.0003	0.0023	0.0573	0.0053	1.0000
-------	-------	-------	-------	-------	--------	--------	--------	--------	--------	--------

VMT Distribution:	0.3080	0.4498	0.1533		0.0237	0.0003	0.0023	0.0573	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite NOX :	0.326	0.615	0.611	0.614	0.872	0.102	0.258	1.935	1.15	0.609

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q3

* File 35, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.326	0.615	0.611	0.614	0.872	0.102	0.258	1.937	1.15	0.581

* # # # # # # # # # # # # # # # # # #
* Urban collector- Catawba County-TDM-Q3
* File 35, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.323	0.612	0.607	0.610	0.886	0.101	0.257	1.932	1.16	0.569

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q3

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December 18, 2009

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2437	0.3561	0.1214		0.0799	0.0002	0.0018	0.1927	0.0042	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.344	0.658	0.651	0.656	1.095	0.182	0.463	3.700	1.65	1.205

* # # # # # # # # # # # # # # # # # # #
 * Rural other principal arterial- Catawba County-Rural-Q3
 * File 35, Run 1, Scenario 14.
 * # # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July

Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0410	0.0003	0.0021	0.0989	0.0050	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.328	0.625	0.620	0.624	0.976	0.112	0.285	2.384	1.25	0.729
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* * * * *

* Rural minor arterial- Catawba County-Rural-Q3

* File 35, Run 1, Scenario 15.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2934	0.4287	0.1461		0.0364	0.0003	0.0022	0.0878	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOx :	0.326	0.622	0.616	0.620	0.962	0.109	0.276	2.065	1.23	0.675

* # # # # # # # # # # # # # # # # #										
* Rural major collector- Catawba County-Rural-Q3										
* File 35, Run 1, Scenario 16.										
* # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 43.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:										

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.325	0.620	0.615	0.619	0.955	0.107	0.273	2.042	1.22	0.614

* * * * *
* Rural minor collector- Catawba County-Rural-Q3
* File 35, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4500	0.1533	>6000	0.0237	0.0003	0.0023	0.0571	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.324	0.618	0.613	0.617	0.949	0.106	0.270	2.020	1.22	0.617

* * * * *

* Rural local- Catawba County-Rural-Q3

* File 35, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0323	0.0003	0.0022	0.0780	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.324	0.618	0.613	0.617	0.949	0.106	0.270	2.020	1.22	0.652

* # # # # # # # # # # # # # # # # # # #
 * Urban interstate- Catawba County-Rural-Q3
 * File 35, Run 1, Scenario 19.
 * # # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0517	0.0002	0.0020	0.1246	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.344	0.658	0.651	0.656	1.095	0.182	0.463	3.698	1.65	0.976

* * * * *

* Urban freeway- Catawba County-Rural-Q3

* File 35, Run 1, Scenario 20.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDV	LDGT	HDDV	MC	All Veh
VMT Distribution:	0.3080	0.4498	0.1533		0.0237	0.0003	0.0023	0.0573	0.0053	1.0000
Composite Emission Factors (g/mi):										

Composite NOX :	0.331	0.621	0.617	0.620	0.858	0.103	0.261	1.953	1.13	0.614
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban minor arterial- Catawba County-Rural-Q3										
* File 35, Run 1, Scenario 22.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban minor arterial mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 32.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2017										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.8 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										
Reformulated Gas: No										

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
VMT Distribution:	0.3164	0.4625	0.1577	-----	0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.324	0.613	0.609	0.612	0.879	0.101	0.258	1.933	1.16	0.579

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban collector- Catawba County-Rural-Q3										
* File 35, Run 1, Scenario 23.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2017										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.8 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1589		0.0138	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.326 0.615 0.611 0.614 0.872 0.102 0.258 1.939 1.15 0.572

* * * * *
* Urban local- Catawba County-Rural-Q3
* File 35, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533	0.0238	0.0003	0.0023	0.0574	0.0053		1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.326	0.615	0.611	0.614	0.872	0.102	0.258	1.936	1.15	0.609

CAT17P4.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: CAT17P4.IN (file 16, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII
* # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q4
* File 16, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
```


* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2881	0.4210	0.1436		0.0412	0.0003	0.0021	0.0987	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.259	0.556	0.616	0.571	1.074	0.126	0.359	2.857	2.18	0.735

* #
* Rural minor arterial- Catawba County-TDM-Q4
* File 16, Run 1, Scenario 3.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 39.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							

VMT Distribution:	0.3097	0.4523	0.1542		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite NOX :	0.239	0.527	0.585	0.541	0.960	0.089	0.251	1.872	1.75	0.534

* * * * *
 * Rural minor collector- Catawba County-TDM-Q4
 * File 16, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.

Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0238	0.0003	0.0023	0.0570	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.232	0.516	0.574	0.531	0.910	0.084	0.239	1.780	1.70	0.524

* * * * *
 * Rural local- Catawba County-TDM-Q4
 * File 16, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0325	0.0003	0.0022	0.0778	0.0052	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.238	0.525	0.583	0.540	0.953	0.087	0.248	1.850	1.75	0.571

* * * * *
* Urban interstate- Catawba County-TDM-Q4
* File 16, Run 1, Scenario 7.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018											
Month: Jan.											
Altitude: Low											
Minimum Temperature: 43.3 (F)											
Maximum Temperature: 56.0 (F)											
Minimum Rel. Hum.: 57.9 (%)											
Maximum Rel. Hum.: 86.0 (%)											
Barometric Pressure: 30.00 (inches Hg)											
Nominal Fuel RVP: 14.0 psi											
Weathered RVP: 14.0 psi											
Fuel Sulfur Content: 30. ppm											
Exhaust I/M Program: Yes											
Evap I/M Program: Yes											
ATP Program: Yes											
Reformulated Gas: No											
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh	
GVWR:	<6000	>6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0519	0.0002	0.0020	0.1244	0.0048	1.0000	

Composite Emission Factors (g/ml):											
Composite NOX :	0.255	0.550	0.610	0.565	1.052	0.114	0.324	2.592	2.06	0.763	

* * * * *
* Urban freeway- Catawba County-TDM-Q4
* File 16, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2950	0.4309	0.1468	>6000	0.0352	0.0003	0.0022	0.0845	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.243	0.532	0.590	0.546	0.981	0.092	0.260	2.116	1.77	0.610

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q4

* File 16, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.

Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4498	0.1533		0.0238	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.235	0.521	0.580	0.536	0.883	0.085	0.241	1.793	1.65	0.529

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q4
 * File 16, Run 1, Scenario 10.

* * * * *
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.235	0.521	0.580	0.536	0.883	0.085	0.241	1.794	1.65	0.501

* * * * *
* Urban collector- Catawba County-TDM-Q4
* File 16, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 33.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590		0.0139	0.0003	0.0023	0.0334	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.233	0.518	0.577	0.533	0.898	0.084	0.240	1.790	1.68	0.490

* * * * *
 * Urban local- Catawba County-TDM-Q4
 * File 16, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning: The user supplied arterial average speed of 35.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						


```

-----
VMT Distribution:  0.3080  0.4496  0.1533  -----  0.0239  0.0003  0.0023  0.0573  0.0053  1.0000
-----
Composite Emission Factors (g/mi):
Composite NOx :  0.232  0.516  0.574  0.531  0.910  0.084  0.239  1.781  1.70  0.525
-----

```

```

* * * * *
* Rural interstate- Catawba County-Rural-Q4
* File 16, Run 1, Scenario 13.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year:  2018
Month:  Jan.
Altitude:  Low
Minimum Temperature:  43.3 (F)
Maximum Temperature:  56.0 (F)
Minimum Rel. Hum.:  57.9 (%)
Maximum Rel. Hum.:  86.0 (%)
Barometric Pressure:  30.00 (inches Hg)
Nominal Fuel RVP:  14.0 psi
Weathered RVP:  14.0 psi
Fuel Sulfur Content:  30. ppm

Exhaust I/M Program:  Yes

```

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2881	0.4210	0.1436	0.0412	0.0003	0.0021	0.0987	0.0050	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.244	0.533	0.592	0.548	0.989	0.093	0.265	2.154	1.79	0.643

* * * * *
* Rural minor arterial- Catawba County-Rural-Q4
* File 16, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.2934	0.4287	0.1462		0.0366	0.0003	0.0021	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.242	0.530	0.589	0.545	0.974	0.091	0.257	1.916	1.77	0.597

* * * * *
* Rural major collector- Catawba County-Rural-Q4
* File 16, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment : User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3097	0.4523	0.1542		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.241	0.528	0.587	0.543	0.967	0.090	0.254	1.895	1.76	0.537

* * * * *
* Rural minor collector- Catawba County-Rural-Q4
* File 16, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

M583 Warning: User supplied VMT mix.
The user supplied arterial average speed of 42.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4500	0.1533		0.0238	0.0003	0.0023	0.0570	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.239	0.527	0.585	0.541	0.961	0.089	0.251	1.873	1.75	0.540

* * * * *
* Rural local- Catawba County-Rural-Q4
* File 16, Run 1, Scenario 18.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0352	0.0003	0.0022	0.0845	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.257	0.552	0.612	0.567	1.059	0.118	0.336	2.687	2.10	0.679

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-Rural-Q4
* File 16, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

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Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (in)

Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590		0.0139	0.0003	0.0023	0.0334	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.235	0.521	0.580	0.536	0.883	0.085	0.241	1.796	1.65	0.492

* * * * *
* Urban local- Catawba County-Rural-Q4
* File 16, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment:

M583 Warning:
User supplied VMT mix.

The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: CARL7P4N.IN (file 36, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999      MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00      MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate- Catawba County-TDM-Q4  
* File 36, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 60.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2437	0.3561	0.1214		0.0803	0.0002	0.0018	0.1923	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.419	0.808	0.841	0.816	1.087	0.134	0.380	3.021	2.26	1.170

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q4
* File 36, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3097	0.4523	0.1542		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.390	0.766	0.800	0.775	0.960	0.089	0.251	1.872	1.75	0.722

* * * * *
 * Rural minor collector- Catawba County-TDM-Q4
 * File 36, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 35.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3080	0.4500	0.1533		0.0238	0.0003	0.0023	0.0570	0.0053	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.381 0.754 0.787 0.762 0.910 0.084 0.239 1.780 1.70 0.710

* * * * *
 * Rural local- Catawba County-TDM-Q4
 * File 36, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 41.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low

Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2981	0.4355	0.1484		0.0325	0.0003	0.0022	0.0778	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.388	0.764	0.797	0.773	0.953	0.087	0.248	1.850	1.75	0.751

* * * * *
* Urban interstate- Catawba County-TDM-Q4
* File 36, Run 1, Scenario 7.

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 55.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2761	0.4032	0.1374		0.0519	0.0002	0.0020	0.1244	0.0048	1.0000

Composite Emission Factors (g/ml):	0.411	0.796	0.828	0.804	1.052	0.114	0.324	2.592	2.06	0.935

* * * * *
 * Urban freeway- Catawba County-TDM-Q4
 * File 36, Run 1, Scenario 8.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban freeway mix and speeds

M615 Comment:
 User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2950	0.4309	0.1468		0.0352	0.0003	0.0022	0.0845	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.395	0.773	0.806	0.781	0.981	0.092	0.260	2.116	1.77	0.791

* * * * *
* Urban other principal arterial-Catawba County-TDM-Q4
* File 36, Run 1, Scenario 9.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 31.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.3080	0.4498	0.1533		0.0238	0.0003	0.0023	0.0572	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite NOX :	0.385	0.761	0.795	0.769	0.883	0.085	0.241	1.793	1.65	0.715
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q4

* File 36, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3164	0.4625	0.1577		0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.385	0.761	0.795	0.769	0.883	0.085	0.241	1.794	1.65	0.693

* # # # # # # # # # # # # # # # # # #
* Urban collector- Catawba County-TDM-Q4
* File 36, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3192	0.4664	0.1590		0.0139	0.0003	0.0023	0.0334	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.383	0.757	0.791	0.766	0.898	0.084	0.240	1.790	1.68	0.683

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q4

Calendar Year:	2018
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3080	0.4496	0.1533		0.0239	0.0003	0.0023	0.0573	0.0053	1.0000

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.2437	0.3561	0.1214		0.0803	0.0002	0.0018	0.1923	0.0042	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.424	0.816	0.849	0.824	1.109	0.152	0.432	3.407	2.37	1.252

* * * * *
* Rural principle arterial- Catawba County-Rural-Q4
* File 36, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principle arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2881	0.4210	0.1436		0.0412	0.0003	0.0021	0.0987	0.0050	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.396	0.775	0.808	0.783	0.989	0.093	0.265	2.154	1.79	0.819
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural minor arterial- Catawba County-Rural-Q4

* File 36, Run 1, Scenario 15.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2934	0.4287	0.1462		0.0366	0.0003	0.0021	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.393	0.771	0.804	0.779	0.974	0.091	0.257	1.916	1.77	0.776

* * * * *
 * Rural major collector- Catawba County-Rural-Q4
 * File 36, Run 1, Scenario 16.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3097	0.4523	0.1542		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.392	0.769	0.802	0.777	0.967	0.090	0.254	1.895	1.76	0.726

* * * * *
* Rural minor collector- Catawba County-Rural-Q4
* File 36, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3080	0.4500	0.1533	>6000	0.0238	0.0003	0.0023	0.0570	0.0053	1.0000

Composite Emission Factors (g/ml):

Composite NOX :	0.390	0.766	0.800	0.775	0.961	0.089	0.251	1.873	1.75	0.727
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural local- Catawba County-Rural-Q4

* File 36, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2018
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2981	0.4355	0.1484		0.0325	0.0003	0.0022	0.0778	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.390	0.766	0.800	0.775	0.961	0.089	0.251	1.873	1.75	0.755

* * * * *
 * Urban interstate- Catawba County-Rural-Q4
 * File 36, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2761	0.4032	0.1374		0.0519	0.0002	0.0020	0.1244	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.424	0.816	0.849	0.824	1.109	0.152	0.432	3.405	2.37	1.056

* #

* Urban freeway- Catawba County-Rural-Q4

* File 36, Run 1, Scenario 20.

* #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2950	0.4309	0.1468		0.0352	0.0003	0.0022	0.0845	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.412	0.798	0.831	0.807	1.059	0.118	0.336	2.687	2.10	0.863

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q4
* File 36, Run 1, Scenario 21.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.3080 0.4498 0.1533
-----
Composite Emission Factors (g/ml):

```

Composite NOX : 0.388 0.766 0.802 0.775 0.869 0.086 0.243 1.810 1.62 0.721

* * * * *
* Urban minor arterial- Catawba County-Rural-Q4
* File 36, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
VMT Distribution:	0.3164	0.4625	0.1577	-----	0.0162	0.0003	0.0023	0.0391	0.0055	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.384	0.759	0.793	0.767	0.890	0.085	0.240	1.791	1.66	0.692

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban collector- Catawba County-Rural-Q4										
* File 36, Run 1, Scenario 23.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2018										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3192	0.4664	0.1590		0.0139	0.0003	0.0023	0.0334	0.0055	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.385 0.761 0.795 0.769 0.883 0.085 0.241 1.796 1.65 0.686

* * * * *
* Urban local- Catawba County-Rural-Q4
* File 36, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2018
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3080	0.4496	0.1533	0.0239	0.0003	0.0023	0.0573	0.0053	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.385	0.761	0.795	0.769	0.883	0.085	0.241	1.793	1.65	0.716

```

CAT21P1.TXT
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: CAT21P1.IN (file 17, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII
* # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q1
* File 17, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels

```


* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.193	0.449	0.552	0.475	0.827	0.092	0.280	1.923	2.25	0.563

GVWR:	<6000	>6000	(All)						
VT Distribution:	0.2787	0.4396	0.1499						

Composite Emission Factors (g/mi):

Composite NOX :	0.175	0.420	0.520	0.446	0.723	0.065	0.195	1.259	1.81	0.458
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural major collector- Catawba County-TDM-Q1
* File 17, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 41.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

```
* * * * *
* Rural minor collector- Catawba County-TDM-Q1
* File 17, Run 1, Scenario 5.
* * * * *
```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
```

M615 Comment: User supplied VMT mix.

```

M 48 Warning:
      there are no sales for vehicle class HDGV8b

```

Calendar Year: 2021
Month: Jan.

Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)

Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.173	0.418	0.518	0.443	0.701	0.064	0.193	1.241	1.77	0.422

* * * * *
 * Rural local- Catawba County-TDM-Q1
 * File 17, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.176	0.422	0.523	0.448	0.733	0.065	0.197	1.271	1.83	0.451

* * * * *
* Urban interstate- Catawba County-TDM-Q1
* File 17, Run 1, Scenario 7.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds
M615 Comment: User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.188	0.441	0.543	0.467	0.800	0.080	0.243	1.676	2.05	0.568

* *

* Urban freeway- Catawba County-TDM-Q1

* File 17, Run 1, Scenario 8.

* *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2801	0.4419	0.1507	>6000	0.0354	0.0003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.180	0.428	0.530	0.454	0.756	0.068	0.207	1.440	1.85	0.478

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q1

* File 17, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 30.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.175	0.422	0.523	0.448	0.678	0.064	0.194	1.249	1.72	0.425

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q1
 * File 17, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.175	0.422	0.523	0.448	0.678	0.064	0.194	1.249	1.72	0.407

* * * * *
* Urban collector- Catawba County-TDM-Q1
* File 17, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.

Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.174	0.420	0.520	0.445	0.691	0.064	0.193	1.247	1.74	0.400

* * * * *
* Urban local- Catawba County-TDM-Q1
* File 17, Run 1, Scenario 12.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 33.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VTM Distribution:	0.2923	0.4612	0.1573	0.0240	0.0003	0.0023	0.0573	0.0053	1.0000
Composite Emission Factors (g/mi):									
Composite NOX :	0.173	0.419	0.519	0.444	0.064	0.193	1.242	1.76	0.423

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural interstate- Catawba County-Rural-Q1									
* File 17, Run 1, Scenario 13.									
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels									
* from the external data file PMGZML.CSV									
* Reading PM Gas Carbon DR1 Levels									
* from the external data file PMGDR1.CSV									
* Reading PM Gas Carbon DR2 Levels									
* from the external data file PMGDR2.CSV									
* Reading PM Diesel Zero Mile Levels									
* from the external data file PMDZML.CSV									
* Reading the First PM Deterioration Rates									
* from the external data file PMDDR1.CSV									
* Reading the Second PM Deterioration Rates									
* from the external data file PMDDR2.CSV									
* Rural interstate mix and speeds									
M615 Comment:	User supplied VMT mix.								
M581 Warning:	The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.								
M 48 Warning:	there are no sales for vehicle class HDGV8b								
M 48 Warning:	there are no sales for vehicle class LDDT12								
Calendar Year: 2021									
Month: Jan.									
Altitude: Low									
Minimum Temperature: 36.8 (F)									
Maximum Temperature: 54.8 (F)									
Minimum Rel. Hum.: 47.4 (%)									
Maximum Rel. Hum.: 76.1 (%)									
Barometric Pressure: 30.00 (inches Hg)									
Nominal Fuel RVP: 14.0 psi									
Weathered RVP: 14.0 psi									
Fuel Sulfur Content: 30. ppm									
Exhaust I/M Program: Yes									

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.182	0.431	0.533	0.457	0.767	0.070	0.214	1.485	1.88	0.502

* * * * *
* Rural minor arterial- Catawba County-Rural-Q1
* File 17, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.180	0.428	0.530	0.454	0.756	0.068	0.207	1.335	1.85	0.472

* * * * *
* Rural major collector- Catawba County-Rural-Q1
* File 17, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.179	0.427	0.528	0.453	0.751	0.068	0.205	1.319	1.85	0.432

* * * * *
* Rural minor collector- Catawba County-Rural-Q1
* File 17, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:

M 48 Warning:

M 48 Warning:

| tr | |

Altitude: Low

Maximum Temperature: 54.8 (F)

Maximum Rel. Hum.: 76.1 (%)

Nominal Fuel RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

ATP Program: Yes

0
4
.
2
3
0
3
0
0
3
4
3
3
4
0
4
0
4
4

GVWR: <6000

VMT Distribution:	0.2926	0.4614	0.1574	0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
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Composite NOx :	0.178	0.426	0.526	0.451	0.745	0.067	0.202	1.305	1.84	0.433
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* File 17, Run 1, Scenario 18.

* from the external data file PMGZML.CSV

* from the external data file PMGDR1.csv

* from the external data file PMGDR2.CSV

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

Calendar Year:	2021
Month:	Jan.
Altitude:	Low
Minimum Temperature:	36.8 (F)
Maximum Temperature:	54.8 (F)
Minimum Rel. Hum.:	47.4 (%)
Maximum Rel. Hum.:	76.1 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* * * * *
* * * * * Catawba County-Rural-Q1
* * * * * File 17, Run 1, Scenario 20.
* * * * *
* * * * *
```


* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low

Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0354	0.0003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.192	0.447	0.550	0.473	0.821	0.089	0.270	1.859	2.21	0.532

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-Rural-Q1
* File 17, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.175	0.421	0.522	0.446	0.685	0.064	0.194	1.249	1.73	0.401

* # # # # # # # # # # # # # # # # # # #										
* Urban local- Catawba County-Rural-Q1										
* File 17, Run 1, Scenario 24.										
* # # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: Jan.										

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAT21PIN.IN (file 37, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q1
* File 37, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2317	0.3652	0.1245		0.0804	0.0002	0.0018	0.1920	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.368	0.731	0.806	0.750	0.822	0.089	0.270	1.860	2.21	0.886

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural other principal arterial- Catawba County-TDM-Q1										
* File 37, Run 1, Scenario 2.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										


```

-----
Composite Emission Factors (g/mi):
Composite NOx :    0.343    0.695    0.770    0.714    0.723    0.065    0.195    1.259    1.81    0.663
-----

* * * * *
* Rural major collector- Catawba County-TDM-Q1
* File 37, Run 1, Scenario 4.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 41.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

```

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2941	0.4639	0.1582	0.0224	0.0003	0.0023	0.0534	0.0054	1.0000	

Composite Emission Factors (g/mi):

Composite NOX :	0.346	0.700	0.774	0.719	0.739	0.066	0.200	1.287	1.83	0.645
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* * * * *
* Rural minor collector- Catawba County-TDM-Q1
* File 37, Run 1, Scenario 5.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/mi):
 Composite NOX : 0.341 0.692 0.767 0.711 0.701 0.064 0.193 1.241 1.77 0.637

* * * * *
 * Rural local- Catawba County-TDM-Q1
 * File 37, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low

Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.345	0.698	0.772	0.717	0.733	0.065	0.197	1.271	1.83	0.660

* * * * *
* Urban interstate- Catawba County-TDM-Q1
* File 37, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000

Composite Emission Factors (g/ml):	0.362	0.723	0.797	0.742	0.800	0.080	0.243	1.676	2.05	0.766

* * * * *
* Urban freeway- Catawba County-TDM-Q1
* File 37, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.344	0.698	0.775	0.718	0.678	0.064	0.194	1.249	1.72	0.642
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* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q1

* File 37, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000	(All)						
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.342	0.695	0.770	0.714	0.691	0.064	0.193	1.247	1.74	0.623

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q1

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

3410
Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:				(All)						
VTM Distribution:	0.2317	0.3652	0.1245	0.0804	0.0002	0.0018	0.1920	0.0042	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.378	0.747	0.823	0.767	0.860	0.114	0.347	2.371	2.49	0.999

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q1
* File 37, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.

Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000

Composite Emission Factors (g/ml):
 Composite NOX : 0.353 0.710 0.784 0.729 0.767 0.070 0.214 1.485 1.88 0.707

* * * * *
 * Rural minor arterial- Catawba County-Rural-Q1
 * File 37, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.351	0.706	0.780	0.725	0.756	0.068	0.207	1.335	1.85	0.680

* * * * *
 * Rural major collector- Catawba County-Rural-Q1
 * File 37, Run 1, Scenario 16.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.349	0.704	0.778	0.723	0.751	0.068	0.205	1.319	1.85	0.650

* * * * *
* Rural minor collector- Catawba County-Rural-Q1
* File 37, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude:

Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	-----	------	------	----	---------

GVWR:

<6000

>6000

0.2926

0.4614

0.1574

0.0238

0.0003

0.0023

0.0569

0.0053

1.0000

0.650

1.84

1.305

0.202

0.067

0.745

0.721

0.776

0.702

0.348

0.348

0.348

0.348

0.348

0.348

0.348

0.348

0.348

0.348

0.348

0.348

0.348

0.348

Composite Emission Factors (g/ml):

Composite NOX : 0.348

* * * * *

* Rural local- Catawba County-Rural-Q1

* File 37, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.

Altitude: Low
 Minimum Temperature: 36.8 (F)
 Maximum Temperature: 54.8 (F)
 Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.348	0.702	0.776	0.721	0.745	0.067	0.202	1.305	1.84	0.666

* * * * *
 * Urban interstate- Catawba County-Rural-Q1
 * File 37, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: Jan.

Altitude: Low

Minimum Temperature: 36.8 (F)

Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)

Maximum Rel. Hum.: 76.1 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.378	0.747	0.823	0.767	0.860	0.114	0.347	2.371	2.49	0.876

* * * * *

* Urban freeway- Catawba County-Rural-Q1

* File 37, Run 1, Scenario 20.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* * * * *

* Urban other principal arterial-Catawba County-Rural-Q1

* File 37, Run 1, Scenario 21.

Composite Emission Factors (g/mi):

Composite NOx : 0.346 0.702 0.779 0.722 0.674 0.065 0.196 1.259 1.70 0.645

* * * * *
* Urban minor arterial- Catawba County-Rural-Q1
* File 37, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)
Minimum Rel. Hum.: 47.4 (%)
Maximum Rel. Hum.: 76.1 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Vel
VMT Distribution:	0.3006	0.4743	0.1617	-----	0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi.):										
Composite NOX :	0.342	0.695	0.770	0.714	0.690	0.064	0.193	1.244	1.74	0.627

* * * * *	#	#	#	#	#	#	#	#	#	#
* Urban collector- Catawba County-Rural-Q1										
* File 37, Run 1, Scenario 23.										
* * * * *	#	#	#	#	#	#	#	#	#	#
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 36.8 (F)										
Maximum Temperature: 54.8 (F)										
Minimum Rel. Hum.: 47.4 (%)										
Maximum Rel. Hum.: 76.1 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.343 0.697 0.772 0.716 0.685 0.064 0.194 1.249 1.73 0.625

* * * * *
* Urban local- Catawba County-Rural-Q1
* File 37, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 36.8 (F)
Maximum Temperature: 54.8 (F)

Minimum Rel. Hum.: 47.4 (%)
 Maximum Rel. Hum.: 76.1 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTl2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2923	0.4612	0.1573	0.0240	0.0003	0.0023	0.0573	0.0053	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.343	0.697	0.772	0.716	0.685	0.064	0.194	1.247	1.73	0.641

```

CAT21P2.TXT
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: CAT21P2.IN (file 18, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII
* # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q2
* File 18, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels

```


* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2738	0.4318	0.1472		0.0412	0.0002	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.157	0.359	0.426	0.376	0.712	0.089	0.268	1.760	1.73	0.473

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Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.146	0.338	0.403	0.355	0.636	0.064	0.192	1.181	1.41	0.349
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* * * * *
* Rural minor collector- Catawba County-TDM-Q2
* File 18, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.143	0.333	0.397	0.349	0.603	0.062	0.185	1.138	1.36	0.345

* * * * *
 * Rural local- Catawba County-TDM-Q2
 * File 18, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDGV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.145	0.337	0.401	0.353	0.631	0.063	0.189	1.166	1.40	0.372

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban interstate- Catawba County-TDM-Q2										
* File 18, Run 1, Scenario 7.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment: User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 52.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.154	0.352	0.418	0.369	0.688	0.078	0.233	1.533	1.57	0.479

* * * * *
* Urban freeway- Catawba County-TDM-Q2
* File 18, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.5 psi										
Weathered RVP: 10.5 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: Yes										
Evap I/M Program: Yes										
ATP Program: Yes										
Reformulated Gas: No										
Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507	0.0353	0.0003	0.0022	0.0844	0.0051	1.0000	
Composite Emission Factors (g/ml):										
Composite NOX :	0.148	0.342	0.407	0.359	0.650	0.066	0.199	1.316	1.42	0.396

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q2

* File 18, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 30.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July

Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.146	0.337	0.402	0.354	0.584	0.062	0.186	1.146	1.32	0.348

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q2
 * File 18, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.146	0.337	0.402	0.354	0.584	0.062	0.186	1.146	1.32	0.331

* * * * *
* Urban collector- Catawba County-TDM-Q2
* File 18, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July

Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.145	0.335	0.400	0.351	0.594	0.062	0.186	1.144	1.34	0.324

* * * * *
 * Urban local- Catawba County-TDM-Q2
 * File 18, Run 1, Scenario 12.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning: The user supplied arterial average speed of 33.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
 M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDDT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2317	0.3652	0.1245	0.0803	0.0002	0.0018	0.1921	0.0042	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.162	0.367	0.435	0.384	0.740	0.111	0.333	2.171	1.91	0.711

* * * * *
 * Rural other principal arterial- Catawba County-Rural-Q2
 * File 18, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VTM Distribution:	0.2738	0.4318	0.1472		0.0412	0.0002	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.149	0.345	0.410	0.361	0.660	0.068	0.205	1.357	1.45	0.419

* * * * *
* Rural minor arterial- Catawba County-Rural-Q2
* File 18, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.148	0.342	0.407	0.359	0.650	0.066	0.199	1.225	1.42	0.391

* * * * *
* Rural major collector- Catawba County-Rural-Q2
* File 18, Run 1, Scenario 16.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):	0.147	0.341	0.406	0.357	0.646	0.066	0.196	1.210	1.42	0.353

* * * * *

* Rural minor collector- Catawba County-Rural-Q2

* File 18, Run 1, Scenario 17.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds

M615 Comment:

M583 Warning:

M 48 Warning:

M 48 Warning:

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* * * * *
* Rural local- Catawba County-Rural-Q2
* File 18, Run 1, Scenario 18.
* * * * *
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* Reading the First PM Deterioration Rates

Calendar Year:	2021
Month:	July
Altitude:	Low
Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.5 psi
Weathered RVP:	10.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Exhaust	I/M Program:	Yes
Evap	I/M Program:	Yes
	ATP Program:	Yes
Reformulated Gas:		No

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* * * * *
* * Urban freeway- Catawba County-Rural-Q2
* * File 18, Run 1, Scenario 20.
* * * * *
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On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0353	0.0003	0.0022	0.0844	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.157	0.357	0.424	0.374	0.707	0.086	0.259	1.700	1.70	0.443

```

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q2
* File 18, Run 1, Scenario 21.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

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Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.146	0.336	0.401	0.352	0.589	0.062	0.186	1.146	1.33	0.324

* # # # # # # # # # # # # # # # # # # #										
* Urban local- Catawba County-Rural-Q2										
* File 18, Run 1, Scenario 24.										
* # # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										

Calendar Year: 2021
Month: July

Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VT Distribution:	0.2923	0.4612	0.1573		0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.146	0.336	0.401	0.352	0.589	0.062	0.186	1.144	1.33	0.348

CAT21P2N.TXT

```
*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAT21P2N.IN (file 38, run 1).
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q2
* File 38, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.295	0.598	0.621	0.604	0.707	0.086	0.259	1.701	1.70	0.755

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q2
* File 38, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

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-----Composite Emission Factors (g/mi):-----										
Composite NOX :	0.278	0.567	0.591	0.573	0.622	0.063	0.188	1.155	1.39	0.547

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Rural major collector- Catawba County-TDM-Q2										
* File 38, Run 1, Scenario 4.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Rural major collector mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 41.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 58.3 (F)										
Maximum Temperature: 76.6 (F)										
Minimum Rel. Hum.: 47.6 (%)										
Maximum Rel. Hum.: 86.3 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 10.5 psi										
Weathered RVP: 10.5 psi										
Fuel Sulfur Content: 30. ppm										
Exhaust I/M Program: No										
Evap I/M Program: No										
ATP Program: Yes										

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.280	0.571	0.595	0.577	0.636	0.064	0.192	1.181	1.41	0.527
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector- Catawba County-TDM-Q2
* File 38, Run 1, Scenario 5.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.277	0.565	0.588	0.571	0.603	0.062	0.185	1.138	1.36	0.521

* * * * *
 * Rural local- Catawba County-TDM-Q2
 * File 38, Run 1, Scenario 6.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.279	0.569	0.593	0.575	0.631	0.063	0.189	1.166	1.40	0.542

* * * * *
* Urban interstate- Catawba County-TDM-Q2
* File 38, Run 1, Scenario 7.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000

Composite Emission Factors (g/ml):	0.291	0.591	0.613	0.596	0.688	0.078	0.233	1.533	1.57	0.641

* * * * *
* Urban freeway- Catawba County-TDM-Q2
* File 38, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0353	0.0003	0.0022	0.0844	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.283	0.577	0.600	0.582	0.650	0.066	0.199	1.316	1.42	0.566

* #
* Urban other principal arterial-Catawba County-TDM-Q2
* File 38, Run 1, Scenario 9.
* #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000	(All)						
-------	-------	-------	-------	-------	--	--	--	--	--	--

VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

 Composite Emission Factors (g/mi):
 Composite NOX : 0.281 0.571 0.595 0.577 0.584 0.062 0.186 1.146 1.32 0.526

* # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q2

* File 38, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

Calendar Year:	2021
Month:	July
Altitude:	Low
Minimum Temperature:	58.3 (F)
Maximum Temperature:	76.6 (F)
Minimum Rel. Hum.:	47.6 (%)
Maximum Rel. Hum.:	86.3 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	10.5 psi
Weathered RVP:	10.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* * * * *
* * Urban collector- Catawba County-TDM-Q2
* * File 38, Run 1, Scenario 11.
* * * * *

* * * * *
* * Reading PM Gas Carbon ZML Levels
* * from the external data file PMGZML.CSV

```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low

Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.279	0.568	0.592	0.574	0.594	0.062	0.186	1.144	1.34	0.507

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q2

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Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.302	0.611	0.635	0.617	0.740	0.111	0.333	2.171	1.91	0.858

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q2
* File 38, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2738	0.4318	0.1472		0.0412	0.0002	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.285	0.580	0.603	0.586	0.660	0.068	0.205	1.357	1.45	0.586
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* * * * *
 * Rural minor arterial- Catawba County-Rural-Q2
 * File 38, Run 1, Scenario 15.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.283	0.576	0.600	0.582	0.650	0.066	0.199	1.225	1.42	0.561

* * * * *
 * Rural major collector- Catawba County-Rural-Q2
 * File 38, Run 1, Scenario 16.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 43.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.282	0.575	0.598	0.581	0.646	0.066	0.196	1.210	1.42	0.531

* * * * *
* Rural minor collector- Catawba County-Rural-Q2
* File 38, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
Composite Emission Factors (g/ml):										
Composite NOX :	0.281	0.573	0.596	0.579	0.641	0.065	0.194	1.197	1.41	0.532

* * * * *
* Rural local- Catawba County-Rural-Q2
* File 38, Run 1, Scenario 18.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July

Altitude: Low
 Minimum Temperature: 58.3 (F)
 Maximum Temperature: 76.6 (F)
 Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.281	0.573	0.596	0.579	0.641	0.065	0.194	1.197	1.41	0.548

* * * * *
 * Urban interstate- Catawba County-Rural-Q2
 * File 38, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July

Altitude: Low

Minimum Temperature: 58.3 (F)

Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)

Maximum Rel. Hum.: 86.3 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 10.5 psi

Weathered RVP: 10.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.302	0.611	0.635	0.617	0.740	0.111	0.333	2.172	1.91	0.740

* * * * *

* Urban freeway- Catawba County-Rural-Q2

* File 38, Run 1, Scenario 20.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* * * * *

* Urban other principal arterial-Catawba County-Rural-Q2

* File 38, Run 1, Scenario 21.

Composite NOX : 0.283 0.574 0.599 0.580 0.580 0.063 0.188 1.155 1.31 0.529

* * * * *
* Urban minor arterial- Catawba County-Rural-Q2
* File 38, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)
Minimum Rel. Hum.: 47.6 (%)
Maximum Rel. Hum.: 86.3 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 10.5 psi
Weathered RVP: 10.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3006	0.4743	0.1617	0.574	0.594	0.062	0.186	1.141	1.34	0.511
Composite Emission Factors (g/mi):										
Composite NOX :	0.279	0.568	0.591							
* * * * *	* * * * *	* * * * *	* * * * *							
* Urban collector- Catawba County-Rural-Q2										
* File 38, Run 1, Scenario 23.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 31.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
	Calendar Year:	2021								
	Month:	July								
	Altitude:	Low								
	Minimum Temperature:	58.3 (F)								
	Maximum Temperature:	76.6 (F)								
	Minimum Rel. Hum.:	47.6 (%)								
	Maximum Rel. Hum.:	86.3 (%)								
	Barometric Pressure:	30.00 (inches Hg)								
	Nominal Fuel RVP:	10.5 psi								
	Weathered RVP:	10.5 psi								
	Fuel Sulfur Content:	30. ppm								

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.280 0.569 0.593 0.575 0.589 0.062 0.186 1.146 1.33 0.508

* * * * *
* Urban local- Catawba County-Rural-Q2
* File 38, Run 1, Scenario 24.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 58.3 (F)
Maximum Temperature: 76.6 (F)

Minimum Rel. Hum.: 47.6 (%)
 Maximum Rel. Hum.: 86.3 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 10.5 psi
 Weathered RVP: 10.5 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2923	0.4612	0.1573	0.0239	0.0003	0.0023	0.0574	0.0053	1.0000	

Composite Emission Factors (g/ml):										
Composite NOX :	0.280	0.569	0.593	0.575	0.589	0.062	0.186	1.144	1.33	0.525

```

CAT21P3.TXT
*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: CAT21P3.IN (file 19, run 1). *
*****
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.998 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
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M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 0.999 MYR sum not = 1. (will normalize)
M 49 Warning: 1.00 MYR sum not = 1. (will normalize)
* OBDII
* # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q3
* File 19, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels

```

* * * * *
 * Rural other principal arterial- Catawba County-TDM-Q3
 * File 19, Run 1, Scenario 2.
 * * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2738	0.4318	0.1472		0.0412	0.0002	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.146	0.323	0.384	0.339	0.736	0.089	0.268	1.760	1.49	0.448

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	---------------	------	------	------	------	----	---------

GVWR:	<6000	<6000	>6000							
VTM Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.137	0.304	0.363	0.319	0.658	0.064	0.192	1.181	1.21	0.324
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* * * * *
* Rural minor collector- Catawba County-TDM-Q3
* File 19, Run 1, Scenario 5.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year:	2021
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)

Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VTM Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.135	0.300	0.358	0.315	0.624	0.062	0.185	1.138	1.17	0.321

* * * * *
 * Rural local- Catawba County-TDM-Q3
 * File 19, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDLV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.136	0.303	0.362	0.318	0.652	0.063	0.189	1.166	1.21	0.348

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban interstate- Catawba County-TDM-Q3										
* File 19, Run 1, Scenario 7.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban interstate mix and speeds										
M615 Comment: User supplied VMT mix.										
M581 Warning:										
The user supplied freeway average speed of 52.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the freeway roadway type for										

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.143	0.317	0.378	0.333	0.712	0.078	0.233	1.533	1.36	0.457

* * * * *
* Urban freeway- Catawba County-TDM-Q3
* File 19, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0353	0.0003	0.0022	0.0844	0.0051	1.0000

Composite Emission Factors (g/ml):
Composite NOX : 0.138 0.308 0.367 0.323 0.672 0.066 0.199 1.316 1.23 0.372

* * * * *
* Urban other principal arterial-Catawba County-TDM-Q3
* File 19, Run 1, Scenario 9.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 30.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.139	0.304	0.364	0.319	0.604	0.062	0.186	1.146	1.14	0.325

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q3
 * File 19, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.139	0.304	0.363	0.319	0.604	0.062	0.186	1.146	1.14	0.306

* * * * *
* Urban collector- Catawba County-TDM-Q3
* File 19, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 * M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.138	0.302	0.376	0.320	0.666	0.064	0.193	1.247	1.17	0.305

```

* * * * *
* Urban local- Catawba County-TDM-Q3
* File 19, Run 1, Scenario 12.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 33.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						


```

VMT Distribution:  0.2923  0.4612  0.301  0.360  0.316  0.619  0.062  0.185  1.139  1.16  0.322
Composite Emission Factors (g/mi):
Composite NOX :  0.136  0.301  0.360  0.316  0.619  0.062  0.185  1.139  1.16  0.322
-----
* * * * *
* Rural interstate- Catawba County-Rural-Q3
* File 19, Run 1, Scenario 13.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PWDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year:  2021
Month:  July
Altitude:  Low
Minimum Temperature:  66.8 (F)
Maximum Temperature:  82.5 (F)
Minimum Rel. Hum.:  56.5 (%)
Maximum Rel. Hum.:  88.2 (%)
Barometric Pressure:  30.00 (inches Hg)
Nominal Fuel RVP:  9.0 psi
Weathered RVP:  8.8 psi
Fuel Sulfur Content:  30. ppm

Exhaust I/M Program:  Yes

```

Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
---------------	------	--------	--------	------	------	------	------	------	----	---------

GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2317	0.3652	0.1245	0.0803	0.0002	0.0018	0.1921	0.0042	1.0000	

Composite Emission Factors (g/mi):

Composite NOX :	0.149	0.331	0.393	0.346	0.765	0.111	0.333	2.171	1.65	0.690
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* * * * *
* Rural other principal arterial- Catawba County-Rural-Q3
* File 19, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VT Distribution:	0.2738	0.4318	0.1472		0.0412	0.0002	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.140	0.310	0.370	0.325	0.682	0.068	0.205	1.357	1.25	0.395

* * * * *
* Rural minor arterial- Catawba County-Rural-Q3
* File 19, Run 1, Scenario 15.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021

Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.138	0.308	0.367	0.323	0.672	0.066	0.199	1.225	1.23	0.368

* * * * *
* Rural major collector- Catawba County-Rural-Q3
* File 19, Run 1, Scenario 16.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000
Composite Emission Factors (g/ml):	0.138	0.307	0.366	0.322	0.668	0.066	0.196	1.210	1.22	0.327

* * * * *
* Rural minor collector- Catawba County-Rural-Q3
* File 19, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:

M 48 Warning:

M 48 Warning:

| tr | |

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* * * * *
* Rural local- Catawba County-Rural-Q3
* File 19, Run 1, Scenario 18.
* * * * *
```

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

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* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0353	0.0003	0.0022	0.0844	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.145	0.322	0.383	0.338	0.731	0.086	0.259	1.700	1.46	0.418

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-Rural-Q3
* File 19, Run 1, Scenario 21.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

On-road Mobile Source Emission Inventory Documentation
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Redesignation Demonstration and Maintenance Plan

ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.137	0.302	0.361	0.317	0.614	0.062	0.186	1.141	1.16	0.304

* # # # # # # # # # # # # # # # # # #										
* Urban collector- Catawba County-Rural-Q3										
* File 19, Run 1, Scenario 23.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:										
	The user supplied arterial average speed of 31.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

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Appendix C.3
December 18, 2009

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

```
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
```

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
```

* Urban local mix and speeds

User supplied VMT mix.

M 48 Warning:

M 48 Warning:

Calendar Year: 2021
Month: July

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

```
*****  
** MOBILE6.2.03 (24-Sep-2003)  
** Input file: CAT2LP3N.IN (file 39, run 1).  
*****  
  
* Reading Registration Distributions from the following external  
* data file: NCAGE07.PRN  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.998    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      0.999    MYR sum not = 1. (will normalize)  
M 49 Warning:      1.00    MYR sum not = 1. (will normalize)  
  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate- Catawba County-TDM-Q3  
* File 39, Run 1, Scenario 1.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
  
* Reading PM Gas Carbon ZML Levels  
* from the external data file PMGZML.CSV  
  
* Reading PM Gas Carbon DR1 Levels  
* from the external data file PMGDR1.CSV  
  
* Reading PM Gas Carbon DR2 Levels  
* from the external data file PMGDR2.CSV
```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural interstate mix and speeds

M615 Comment: User supplied VMT mix.
M581 Warning:

The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.270	0.538	0.560	0.543	0.731	0.086	0.259	1.701	1.46	0.721

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q3
* File 39, Run 1, Scenario 2.
* * * * *
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

Calendar Year:	2021
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDV	LDVT	HDDV	MC	All Veh
VMT Distribution:	0.2787	0.4396	0.1499	0.0366	0.0003	0.0022	0.0876	0.0051	1.0000	

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.259	0.514	0.536	0.520	0.658	0.064	0.192	1.181	1.21	0.484
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
* Rural minor collector- Catawba County-TDM-Q3
* File 39, Run 1, Scenario 5.
* * * * *
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 34.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2926	0.4614	0.1574	0.0238	0.0003	0.0023	0.0569	0.0053	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.258	0.508	0.531	0.514	0.624	0.062	0.185	1.138	1.17	0.480

* * * * *
 * Rural local- Catawba County-TDM-Q3
 * File 39, Run 1, Scenario 6.
 * * * * *
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * * * * *
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * * * * *
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low

Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.259	0.512	0.535	0.518	0.652	0.063	0.189	1.166	1.21	0.502

* * * * *
* Urban interstate- Catawba County-TDM-Q3
* File 39, Run 1, Scenario 7.

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban interstate mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000

Composite Emission Factors (g/ml):	0.267	0.531	0.553	0.537	0.712	0.078	0.233	1.533	1.36	0.602

* * * * *
* Urban freeway- Catawba County-TDM-Q3
* File 39, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0353	0.0003	0.0022	0.0844	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.261	0.518	0.541	0.524	0.672	0.066	0.199	1.316	1.23	0.525

* # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-TDM-Q3
* File 39, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July

Altitude: Low

Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)

Maximum Rel. Hum.: 88.2 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							

VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.263	0.514	0.538	0.520	0.604	0.062	0.186	1.146	1.14	0.485
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q3

* File 39, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.263	0.514	0.538	0.520	0.604	0.062	0.186	1.146	1.14	0.471

* # # # # # # # # # # # # # # # # # #
* Urban collector- Catawba County-TDM-Q3
* File 39, Run 1, Scenario 11.
* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: Jan.
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.265	0.500	0.557	0.514	0.666	0.064	0.193	1.247	1.17	0.468

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q3

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

3522
Appendix C.3
December 18, 2009

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2317	0.3652	0.1245		0.0803	0.0002	0.0018	0.1921	0.0042	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.276	0.549	0.573	0.555	0.765	0.111	0.333	2.171	1.65	0.822

* * * * *
 * Rural other principal arterial- Catawba County-Rural-Q3
 * File 39, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year:	2021
Month:	July
Altitude:	Low
Minimum Temperature:	66.8 (F)
Maximum Temperature:	82.5 (F)
Minimum Rel. Hum.:	56.5 (%)
Maximum Rel. Hum.:	88.2 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.8 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2738	0.4318	0.1472		0.0412	0.0002	0.0022	0.0986	0.0050	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.263	0.522	0.544	0.527	0.682	0.068	0.205	1.357	1.25	0.546
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural minor arterial- Catawba County-Rural-Q3

* File 39, Run 1, Scenario 15.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 44.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: July
 Altitude: Low
 Minimum Temperature: 66.8 (F)

Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.261	0.518	0.541	0.524	0.672	0.066	0.199	1.225	1.23	0.520

* * * * *
* Rural major collector- Catawba County-Rural-Q3
* File 39, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0223	0.0003	0.0023	0.0535	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.261	0.517	0.539	0.523	0.668	0.066	0.196	1.210	1.22	0.489

* * * * *
* Rural minor collector- Catawba County-Rural-Q3
* File 39, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2926	0.4614	0.1574	>6000	0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.260	0.515	0.538	0.521	0.663	0.065	0.194	1.197	1.22	0.489

* * * * *
* Rural local- Catawba County-Rural-Q3
* File 39, Run 1, Scenario 18.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2021
 Month: Jan.

Altitude: Low
 Minimum Temperature: 66.8 (F)
 Maximum Temperature: 82.5 (F)
 Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.265	0.504	0.561	0.519	0.719	0.067	0.202	1.305	1.23	0.517

* * * * *
 * Urban interstate- Catawba County-Rural-Q3
 * File 39, Run 1, Scenario 19.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * * * * *
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * * * * *
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * * * * *
 * Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 63.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2620	0.4135	0.1410		0.0520	0.0002	0.0021	0.1244	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.276	0.549	0.573	0.555	0.765	0.111	0.333	2.172	1.65	0.699

* * * * *

* Urban freeway- Catawba County-Rural-Q3

* File 39, Run 1, Scenario 20.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2801	0.4419	0.1507		0.0353	0.0003	0.0022	0.0844	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.270	0.538	0.560	0.543	0.731	0.086	0.259	1.700	1.46	0.575

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q3
* File 39, Run 1, Scenario 21.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.2924 0.4613 0.1573
-----
Composite Emission Factors (g/ml):

```

Composite NOX : 0.266 0.518 0.541 0.524 0.599 0.063 0.188 1.155 1.13 0.488

* * * * *
* Urban minor arterial- Catawba County-Rural-Q3
* File 39, Run 1, Scenario 22.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)
Minimum Rel. Hum.: 56.5 (%)
Maximum Rel. Hum.: 88.2 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.8 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	>6000	(All)						
VTM Distribution:	0.3006	0.4743	0.1617	-----	0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.260	0.511	0.534	0.517	0.614	0.062	0.186	1.141	1.16	0.468

* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Urban collector- Catawba County-Rural-Q3										
* File 39, Run 1, Scenario 23.										
* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *	* * * * *
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment: User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0										
will be used for all hours of the day. 100% of VMT										
has been assigned to the arterial/collector roadway										
type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2021										
Month: July										
Altitude: Low										
Minimum Temperature: 66.8 (F)										
Maximum Temperature: 82.5 (F)										
Minimum Rel. Hum.: 56.5 (%)										
Maximum Rel. Hum.: 88.2 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 9.0 psi										
Weathered RVP: 8.8 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.262 0.513 0.536 0.519 0.609 0.062 0.186 1.146 1.15 0.466

* * * * *
* Urban local- Catawba County-Rural-Q3
* File 39, Run 1, Scenario 24.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2021
Month: July
Altitude: Low
Minimum Temperature: 66.8 (F)
Maximum Temperature: 82.5 (F)

Minimum Rel. Hum.: 56.5 (%)
 Maximum Rel. Hum.: 88.2 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.8 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2923	0.4612	0.1573		0.0239	0.0003	0.0023	0.0574	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.262	0.513	0.536	0.519	0.609	0.062	0.186	1.144	1.15	0.484

On-road Mobile Source Emission Inventory Documentation
Hickory and Greensboro/Winston-Salem/High Point Annual PM_{2.5}
Redesignation Demonstration and Maintenance Plan


```
M581 Warning: The user supplied freeway average speed of 57.0
               will be used for all hours of the day. 100% of VMT
               has been assigned to the freeway roadway type for
               all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LBDT12
```

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.173	0.402	0.500	0.427	0.709	0.082	0.258	1.692	2.14	0.502

* * * * *
* Rural minor arterial- Catawba County-TDM-Q4
* File 20, Run 1, Scenario 3.
* * * * *

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* * * * *
* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT HDGV LDDV LDDT HDDV MC All Veh

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Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							

VTM Distribution: 0.2941 0.4639 0.1582 0.0224 0.0003 0.0023 0.0534 0.0054 1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.159	0.379	0.473	0.403	0.634	0.059	0.185	1.121	1.75	0.381
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *
 * Rural minor collector- Catawba County-TDM-Q4
 * File 20, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.

Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.155	0.373	0.467	0.397	0.601	0.057	0.178	1.081	1.69	0.376

* * * * *
 * Rural local- Catawba County-TDM-Q4
 * File 20, Run 1, Scenario 6.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural local mix and speeds

M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

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* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file PMDDP1.CSV
```

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 52.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for

all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.169	0.395	0.491	0.419	0.686	0.071	0.224	1.480	1.95	0.506

* * * * *
* Urban freeway- Catawba County-TDM-Q4
* File 20, Run 1, Scenario 8.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.

Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2801	0.4419	0.1507	>6000	0.0354	0.0003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.162	0.383	0.478	0.408	0.648	0.061	0.191	1.278	1.77	0.427

* * * * *

* Urban other principal arterial-Catawba County-TDM-Q4

* File 20, Run 1, Scenario 9.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban other principal arterial mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 30.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.157	0.377	0.472	0.401	0.582	0.057	0.179	1.089	1.64	0.379

* * * * *
 * Urban minor arterial- Catawba County-TDM-Q4
 * File 20, Run 1, Scenario 10.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.157	0.377	0.472	0.401	0.582	0.057	0.179	1.088	1.64	0.364

* * * * *
* Urban collector- Catawba County-TDM-Q4
* File 20, Run 1, Scenario 11.
* * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Urban collector mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 32.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
 Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.156	0.375	0.469	0.399	0.592	0.057	0.179	1.086	1.66	0.357

```

* * * * *
* Urban local- Catawba County-TDM-Q4
* File 20, Run 1, Scenario 12.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 33.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						


```

VMT Distribution:      0.2923    0.4612    0.1573    -----    -----    -----    -----    -----
Composite Emission Factors (g/mi.):
Composite NOX :       0.155     0.374     0.468     0.398     0.597     0.057     0.023     0.0573    0.0053    1.0000
-----
** ** ** ** ** ** ** ** **   ** ** ** **   ** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *
** Rural interstate- Catawba County-Rural-Q4
** File 20, Run 1, Scenario 13.
** ** ** **   ** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *
** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *   ** ** ** *
** Reading PM Gas Carbon ZML Levels
** from the external data file PMGZML.CSV
**
** Reading PM Gas Carbon DR1 Levels
** from the external data file PMGDR1.CSV
**
** Reading PM Gas Carbon DR2 Levels
** from the external data file PMGDR2.CSV
**
** Reading PM Diesel Zero Mile Levels
** from the external data file PMDZML.CSV
**
** Reading the First PM Deterioration Rates
** from the external data file PMDDR1.CSV
**
** Reading the Second PM Deterioration Rates
** from the external data file PMDDR2.CSV
** Rural interstate mix and speeds
M615 Comment:      User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes

```

Evap I/M Program: Yes
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2317	0.3652	0.1245	0.0804	0.0002	0.0018	0.1920	0.0042	1.0000	
Composite Emission Factors (g/mi):										
Composite NOX :	0.179	0.411	0.511	0.436	0.737	0.102	0.321	2.076	2.37	0.724

* * * * *
 * Rural other principal arterial- Catawba County-Rural-Q4
 * File 20, Run 1, Scenario 14.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 46.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.163	0.386	0.481	0.410	0.658	0.063	0.197	1.316	1.79	0.449

* * * * *
* Rural minor arterial- Catawba County-Rural-Q4
* File 20, Run 1, Scenario 15.
* * * * *

* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 44.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VTM Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.162	0.383	0.478	0.408	0.648	0.061	0.191	1.162	1.77	0.420

* * * * *
* Rural major collector- Catawba County-Rural-Q4
* File 20, Run 1, Scenario 16.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):	0.161	0.382	0.477	0.406	0.644	0.060	0.189	1.148	1.76	0.386

* * * * *
* Rural minor collector- Catawba County-Rural-Q4
* File 20, Run 1, Scenario 17.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* * * * *
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* * * * *
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* * * * *
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* * * * *
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
* * * * *
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Rural minor collector mix and speeds
M615 Comment:

M583 Warning:

The user supplied arterial average speed of 42.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.

	Altitude:	Low
Minimum Temperature:		43.3 (F)
Maximum Temperature:		56.0 (F)
Minimum Rel. Hum.:		57.9 (%)
Maximum Rel. Hum.:		86.0 (%)
Barometric Pressure:		30.00 (in)
Nominal Fuel RVP:		14.0 psi
Weathered RVP:		14.0 psi
Fuel Sulfur Content:		30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.2926	0.4614	0.1574		0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.160	0.381	0.475	0.405	0.639	0.059	0.187	1.136	1.75	0.387

* * * * *

* Rural local- Catawba County-Rural-Q4

* File 20, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

Calendar Year:	2022
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* * * * *
* Urban freeway-Catawba County-Rural-Q4      # # # # #
* * * * *
* File 20, Run 1, Scenario 20.                 # # # # #
* * * * *
* Reading PM Gas Carbon ZML Levels              # # # # #
```


* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Urban freeway mix and speeds

M615 Comment: User supplied VMT mix.

M581 Warning: The user supplied freeway average speed of 56.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0354	0.0003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.172	0.401	0.498	0.425	0.704	0.079	0.249	1.637	2.10	0.475

```

* * * * *
* Urban other principal arterial-Catawba County-Rural-Q4
* File 20, Run 1, Scenario 21.
* * * * *
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
*
* Urban other principal arterial mix and speeds
M615 Comment:      User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

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ATP Program: Yes									
Reformulated Gas: No									

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3006	0.4743	0.1617		0.0163	0.0003	0.0024	0.0389	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.156	0.375	0.469	0.399	0.592	0.057	0.179	1.084	1.66	0.362

* # # # # # # # # # # # # # # # # # #										
* Urban collector- Catawba County-Rural-Q4										
* File 20, Run 1, Scenario 23.										
* # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:										
	The user supplied arterial average speed of 31.0									
	will be used for all hours of the day. 100% of VMT									
	has been assigned to the arterial/collector roadway									
	type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2022										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										

Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
GVWR:										
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.157	0.376	0.471	0.400	0.587	0.057	0.179	1.088	1.65	0.358

* # # # # # # # # # # # # # # # # # # #										
* Urban local- Catawba County-Rural-Q4										
* File 20, Run 1, Scenario 24.										
* # # # # # # # # # # # # # # # # # # #										
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban local mix and speeds										
M615 Comment:										
User supplied VMT mix.										
M583 Warning:										
The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.										
M 48 Warning:										
there are no sales for vehicle class HDGV8b										
M 48 Warning:										
there are no sales for vehicle class LDDT12										
Calendar Year: 2022										
Month: Jan.										

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Redesignation Demonstration and Maintenance Plan

```

*****
* MOBILE6.2.03 (24-Sep-2003)
* Input file: CAR21P4N.IN (file 40, run 1).
*****
*
* Reading Registration Distributions from the following external
* data file: NCAGE07.PRN
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.998      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
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  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      0.999      MYR sum not = 1. (will normalize)
  M 49 Warning:      1.00      MYR sum not = 1. (will normalize)
*
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate- Catawba County-TDM-Q4
* File 40, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #
*
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*****

```

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural interstate mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 56.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2317	0.3652	0.1245		0.0804	0.0002	0.0018	0.1920	0.0042	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.341	0.673	0.743	0.691	0.704	0.079	0.249	1.638	2.10	0.797

* * * * *
* Rural other principal arterial- Catawba County-TDM-Q4
* File 40, Run 1, Scenario 2.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 57.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.342	0.675	0.745	0.693	0.709	0.082	0.258	1.692	2.14	0.702

* #

Calendar Year:	2022
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.321	0.643	0.712	0.660	0.634	0.059	0.185	1.121	1.75	0.589

* * * * *
 * Rural minor collector- Catawba County-TDM-Q4
 * File 40, Run 1, Scenario 5.
 * * * * *

* Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:

The user supplied arterial average speed of 34.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2926	0.4614	0.1574	0.0238	0.0003	0.0023	0.0569	0.0053	1.0000	

Composite Emission Factors (g/mi):
 Composite NOX : 0.315 0.635 0.704 0.652 0.601 0.057 0.178 1.081 1.69 0.581

* * * * *
 * Rural local- Catawba County-TDM-Q4
 * File 40, Run 1, Scenario 6.
 * * * * *
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels
 * from the external data file PMDZML.CSV
 * Reading the First PM Deterioration Rates
 * from the external data file PMDDR1.CSV
 * Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 40.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDVV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2832	0.4466	0.1523	---	0.0325	0.0003	0.0022	0.0777	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite NOX :	0.319	0.641	0.710	0.658	0.629	0.058	0.182	1.107	1.74	0.601

```

* * * * *
* Urban interstate- Catawba County-TDM-Q4
* File 40, Run 1, Scenario 7.
* * * * *

```

```
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
```

```
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
```

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.csv

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

```
* Reading the First PM Deterioration Rates
* from the external data file pmdpr1.csv
```

- * Reading the Second PM Deterioration Rates
- * from the external data file PMDDR2.CSV
- * Urban interstate mix and speeds

M615 Comment: User supplied VMT mix.

MS81 Warning:
The user supplied freeway average speed of 52.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

```

M 48 Warning:
    there are no sales for vehicle class HDGV8b

```

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2620	0.4135	0.1410		0.0521	0.0002	0.0021	0.1243	0.0048	1.0000

Composite Emission Factors (g/ml):	0.335	0.664	0.734	0.682	0.686	0.071	0.224	1.480	1.95	0.696

* * * * *
* Urban freeway- Catawba County-TDM-Q4
* File 40, Run 1, Scenario 8.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban freeway mix and speeds

M615 Comment:
User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.2801	0.4419	0.1507		0.0354	0.0003	0.0022	0.0843	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.325	0.649	0.718	0.666	0.648	0.061	0.191	1.278	1.77	0.626

* # # # # # # # # # # # # # # # # # # #
* Urban other principal arterial-Catawba County-TDM-Q4
* File 40, Run 1, Scenario 9.
* # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
 * from the external data file PMDDR2.CSV
 * Urban other principal arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 30.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						

VMT Distribution:	0.2924	0.4613	0.1573		0.0239	0.0003	0.0023	0.0572	0.0053	1.0000
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Composite Emission Factors (g/mi):

Composite NOX :	0.319	0.641	0.711	0.659	0.582	0.057	0.179	1.089	1.64	0.586
-----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* # # # # # # # # # # # # # # # # # #

* Urban minor arterial- Catawba County-TDM-Q4

* File 40, Run 1, Scenario 10.

* # # # # # # # # # # # # # # # # # #

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 30.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3006	0.4743	0.1617	0.0163	0.0003	0.0024	0.0389	0.0055	1.0000	

Composite Emission Factors (g/mi):										
Composite NOX :	0.319	0.641	0.711	0.659	0.582	0.057	0.179	1.088	1.64	0.576

* #
* Urban collector- Catawba County-TDM-Q4
* File 40, Run 1, Scenario 11.
* #

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban collector mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	<6000	>6000							
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.317	0.638	0.708	0.655	0.592	0.057	0.179	1.086	1.66	0.571

* # # # # # # # # # # # # # # # #
* Urban local- Catawba County-TDM-Q4

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

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December 18, 2009

On-road Mobile Source Emission Inventory Documentation Hickory and Greensboro/Winston-Salem/High Point Annual PM2.5 Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:										
VTM Distribution:	0.2317	0.3652	0.1245		0.0804	0.0002	0.0018	0.1920	0.0042	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.350	0.688	0.759	0.706	0.737	0.102	0.321	2.076	2.37	0.895

* * * * *
* Rural other principal arterial- Catawba County-Rural-Q4
* File 40, Run 1, Scenario 14.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural other principal arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 46.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000		>6000							
VMT Distribution:	0.2738	0.4318	0.1472		0.0413	0.0002	0.0022	0.0985	0.0050	1.0000

Composite Emission Factors (g/mi):

Composite NOX :	0.327	0.652	0.722	0.670	0.658	0.063	0.197	1.316	1.79	0.644
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* * * * *

* Rural minor arterial- Catawba County-Rural-Q4

* File 40, Run 1, Scenario 15.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV

* Rural minor arterial mix and speeds

M615 Comment:

M583 Warning: User supplied VMT mix.

The user supplied arterial average speed of 44.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning: there are no sales for vehicle class HDGV8b

M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.2787	0.4396	0.1499		0.0366	0.0003	0.0022	0.0876	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite NOX :	0.325	0.649	0.718	0.666	0.648	0.061	0.191	1.162	1.77	0.618

* * * * *
* Rural major collector- Catawba County-Rural-Q4
* File 40, Run 1, Scenario 16.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural major collector mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 43.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b
M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	>6000							
VMT Distribution:	0.2941	0.4639	0.1582		0.0224	0.0003	0.0023	0.0534	0.0054	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.323	0.647	0.716	0.664	0.644	0.060	0.189	1.148	1.76	0.594

* * * * *
* Rural minor collector- Catawba County-Rural-Q4
* File 40, Run 1, Scenario 17.
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Rural minor collector mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:

The user supplied arterial average speed of 42.0

will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2022

Month: Jan.

Altitude: Low

Minimum Temperature: 43.3 (F)

Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)

Maximum Rel. Hum.: 86.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 14.0 psi

Weathered RVP: 14.0 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDV	LDDT	HDDV	MC	All Veh
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GVWR:

VMT Distribution:	0.2926	0.4614	0.1574	>6000	0.0238	0.0003	0.0023	0.0569	0.0053	1.0000
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Composite Emission Factors (g/ml):

Composite NOX :	0.322	0.645	0.714	0.662	0.639	0.059	0.187	1.136	1.75	0.594
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* * * * *

* Rural local- Catawba County-Rural-Q4

* File 40, Run 1, Scenario 18.

* * * * *

* Reading PM Gas Carbon ZML Levels

* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels

* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels

* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels

* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates

* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates

* from the external data file PMDDR2.CSV
 * Rural local mix and speeds
 M615 Comment: User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 42.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 M 48 Warning:
 there are no sales for vehicle class HDGV8b
 M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2022
 Month: Jan.
 Altitude: Low
 Minimum Temperature: 43.3 (F)
 Maximum Temperature: 56.0 (F)
 Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2832	0.4466	0.1523		0.0325	0.0003	0.0022	0.0777	0.0052	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.322	0.645	0.714	0.662	0.639	0.059	0.187	1.136	1.75	0.606

* # # # # # # # # # # # # # # # # # #
 * Urban interstate- Catawba County-Rural-Q4
 * File 40, Run 1, Scenario 19.
 * # # # # # # # # # # # # # # # # # #
 * Reading PM Gas Carbon ZML Levels
 * from the external data file PMGZML.CSV
 * Reading PM Gas Carbon DR1 Levels
 * from the external data file PMGDR1.CSV
 * Reading PM Gas Carbon DR2 Levels
 * from the external data file PMGDR2.CSV
 * Reading PM Diesel Zero Mile Levels

Calendar Year:	2022
Month:	Jan.
Altitude:	Low
Minimum Temperature:	43.3 (F)
Maximum Temperature:	56.0 (F)
Minimum Rel. Hum.:	57.9 (%)
Maximum Rel. Hum.:	86.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	14.0 psi
Weathered RVP:	14.0 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* * * * *
* * Urban other principal arterial-Catawba County-Rural-Q4
* File 40, Run 1, Scenario 21.

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban other principal arterial mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All)
GVWR: <6000 >6000
VMT Distribution: 0.2924 0.4613 0.1573
-----
Composite Emission Factors (g/ml):

```

Composite NOX : 0.321 0.644 0.715 0.662 0.578 0.057 0.181 1.097 1.62 0.589

* * * * *
* Urban minor arterial- Catawba County-Rural-Q4
* File 40, Run 1, Scenario 22.
* * * * *
* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV
*
* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV
*
* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV
*
* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV
*
* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV
*
* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV
* Urban minor arterial mix and speeds
M615 Comment: User supplied VMT mix.
M583 Warning: The user supplied arterial average speed of 32.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M 48 Warning: there are no sales for vehicle class HDGV8b
M 48 Warning: there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)
Minimum Rel. Hum.: 57.9 (%)
Maximum Rel. Hum.: 86.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 14.0 psi
Weathered RVP: 14.0 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Vel
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3006	0.4743	0.1617	0.655	0.592	0.057	0.179	1.084	1.66	0.574
Composite Emission Factors (g/mi.):										
Composite NOX :	0.317	0.638	0.707							
* * * * *	* * * * *	* * * * *	* * * * *							
* Urban collector- Catawba County-Rural-Q4										
* File 40, Run 1, Scenario 23.										
* * * * *	* * * * *	* * * * *	* * * * *							
* Reading PM Gas Carbon ZML Levels										
* from the external data file PMGZML.CSV										
* Reading PM Gas Carbon DR1 Levels										
* from the external data file PMGDR1.CSV										
* Reading PM Gas Carbon DR2 Levels										
* from the external data file PMGDR2.CSV										
* Reading PM Diesel Zero Mile Levels										
* from the external data file PMDZML.CSV										
* Reading the First PM Deterioration Rates										
* from the external data file PMDDR1.CSV										
* Reading the Second PM Deterioration Rates										
* from the external data file PMDDR2.CSV										
* Urban collector mix and speeds										
M615 Comment:	User supplied VMT mix.									
M583 Warning:	The user supplied arterial average speed of 31.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.									
M 48 Warning:	there are no sales for vehicle class HDGV8b									
M 48 Warning:	there are no sales for vehicle class LDDT12									
Calendar Year: 2022										
Month: Jan.										
Altitude: Low										
Minimum Temperature: 43.3 (F)										
Maximum Temperature: 56.0 (F)										
Minimum Rel. Hum.: 57.9 (%)										
Maximum Rel. Hum.: 86.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 14.0 psi										
Weathered RVP: 14.0 psi										
Fuel Sulfur Content: 30. ppm										

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.3031	0.4782	0.1631		0.0139	0.0003	0.0024	0.0335	0.0055	1.0000

Composite Emission Factors (g/mi):
Composite NOX : 0.318 0.639 0.709 0.657 0.587 0.057 0.179 1.088 1.65 0.572

* * * * *
* Urban local- Catawba County-Rural-Q4
* File 40, Run 1, Scenario 24.
* * * * *
* * * * *

* Reading PM Gas Carbon ZML Levels
* from the external data file PMGZML.CSV

* Reading PM Gas Carbon DR1 Levels
* from the external data file PMGDR1.CSV

* Reading PM Gas Carbon DR2 Levels
* from the external data file PMGDR2.CSV

* Reading PM Diesel Zero Mile Levels
* from the external data file PMDZML.CSV

* Reading the First PM Deterioration Rates
* from the external data file PMDDR1.CSV

* Reading the Second PM Deterioration Rates
* from the external data file PMDDR2.CSV

* Urban local mix and speeds
M615 Comment: User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 31.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 Warning:
there are no sales for vehicle class HDGV8b

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2022
Month: Jan.
Altitude: Low
Minimum Temperature: 43.3 (F)
Maximum Temperature: 56.0 (F)

Minimum Rel. Hum.: 57.9 (%)
 Maximum Rel. Hum.: 86.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 14.0 psi
 Weathered RVP: 14.0 psi
 Fuel Sulfur Content: 30. ppm

 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGTL2	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.2923	0.4612	0.1573		0.0240	0.0003	0.0023	0.0573	0.0053	1.0000

Composite Emission Factors (g/ml):										
Composite NOX :	0.318	0.639	0.709	0.657	0.587	0.057	0.179	1.086	1.65	0.585

5.3 NORTH CAROLINA'S VEHICLE MIX

5.3.1 2008 State Vehicle Mix

2008 State Vehicle Mix							
Rural	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
LDV	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT	MC
Interstate							
0.3151	0.0700	0.2331	0.0718	0.0330	0.0876	0.0086	0.0070
0.0054	0.0196	0.0230	0.0251	0.0896	0.0045	0.0020	0.0046
Princ. Art.							
0.3725	0.0828	0.2756	0.0849	0.0390	0.0449	0.0044	0.0036
0.0028	0.0101	0.0118	0.0129	0.0460	0.0023	0.0010	0.0054
Minor Art.							
0.3791	0.0843	0.2806	0.0865	0.0397	0.0399	0.0039	0.0032
0.0025	0.0090	0.0105	0.0114	0.0409	0.0021	0.0009	0.0055
Major Collector							
0.4001	0.0889	0.2961	0.0912	0.0419	0.0244	0.0024	0.0019
0.0015	0.0055	0.0064	0.0070	0.0250	0.0013	0.0006	0.0058
Minor Collector							
0.3982	0.0885	0.2945	0.0908	0.0417	0.0259	0.0025	0.0021
0.0016	0.0058	0.0068	0.0074	0.0265	0.0013	0.0006	0.0058
Local							
0.3852	0.0856	0.2851	0.0878	0.0404	0.0355	0.0035	0.0028
0.0022	0.0080	0.0093	0.0101	0.0363	0.0018	0.0008	0.0056
Urban							
LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
HDV5	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT	MC
Interstate							
0.3568	0.0793	0.2639	0.0813	0.0374	0.0566	0.0055	0.0045
0.0035	0.0127	0.0149	0.0162	0.0580	0.0029	0.0013	0.0052
Freeway							
0.3811	0.0847	0.2821	0.0869	0.0399	0.0385	0.0038	0.0031
0.0024	0.0086	0.0101	0.0110	0.0394	0.0020	0.0009	0.0055
Princ. Art.							
0.3982	0.0884	0.2945	0.0907	0.0417	0.0260	0.0026	0.0021
0.0016	0.0058	0.0068	0.0074	0.0266	0.0013	0.0006	0.0057
Minor Art							
0.4091	0.0909	0.3028	0.0933	0.0429	0.0177	0.0017	0.0014
0.0011	0.0040	0.0047	0.0051	0.0181	0.0009	0.0004	0.0059
Coll							
0.4125	0.0917	0.3053	0.0941	0.0432	0.0152	0.0015	0.0012
0.0009	0.0034	0.0040	0.0043	0.0155	0.0008	0.0004	0.0060
Local							
0.3978	0.0884	0.2944	0.0907	0.0417	0.0261	0.0026	0.0021
0.0016	0.0059	0.0069	0.0075	0.0267	0.0013	0.0006	0.0057

5.3.2 2011 State Vehicle Mix

2011 State Vehicle Mix							
Rural	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
LDV	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT	MC
Interstate							
0.2841	0.0754	0.2509	0.0773	0.0356	0.0875	0.0085	0.0072
0.0054	0.0195	0.0231	0.0251	0.0893	0.0045	0.0022	0.0044
Princ. Art.							
0.3355	0.0892	0.2967	0.0914	0.0421	0.0449	0.0044	0.0037
0.0028	0.0100	0.0119	0.0129	0.0458	0.0023	0.0012	0.0052
Minor Art.							
0.3416	0.0908	0.3021	0.0931	0.0429	0.0399	0.0039	0.0033
0.0025	0.0089	0.0105	0.0115	0.0407	0.0020	0.0010	0.0053
Major Collector							
0.3605	0.0958	0.3188	0.0982	0.0452	0.0244	0.0024	0.0020
0.0015	0.0054	0.0064	0.0070	0.0249	0.0013	0.0006	0.0056
Minor Collector							
0.3588	0.0953	0.3171	0.0977	0.0450	0.0259	0.0025	0.0021
0.0016	0.0058	0.0068	0.0074	0.0265	0.0013	0.0007	0.0055
Local							
0.3470	0.0922	0.3069	0.0946	0.0435	0.0354	0.0035	0.0029
0.0022	0.0079	0.0094	0.0102	0.0362	0.0018	0.0009	0.0054
Urban							
LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
HDV5	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT	MC
Interstate							
0.3213	0.0854	0.2842	0.0876	0.0403	0.0566	0.0055	0.0046
0.0035	0.0126	0.0149	0.0163	0.0578	0.0029	0.0015	0.0050
Freeway							
0.3432	0.0913	0.3037	0.0936	0.0431	0.0385	0.0037	0.0032
0.0024	0.0086	0.0102	0.0110	0.0392	0.0020	0.0010	0.0053
Princ. Art.							
0.3585	0.0953	0.3170	0.0977	0.0450	0.0260	0.0025	0.0021
0.0016	0.0058	0.0069	0.0075	0.0266	0.0013	0.0007	0.0055
Minor Art							
0.3686	0.0980	0.3259	0.1004	0.0462	0.0177	0.0017	0.0015
0.0011	0.0039	0.0047	0.0051	0.0181	0.0009	0.0005	0.0057
Coll							
0.3716	0.0988	0.3287	0.1013	0.0466	0.0152	0.0015	0.0012
0.0009	0.0034	0.0040	0.0044	0.0155	0.0008	0.0004	0.0057
Local							
0.3585	0.0952	0.3169	0.0977	0.0450	0.0261	0.0025	0.0021
0.0016	0.0058	0.0069	0.0075	0.0267	0.0013	0.0007	0.0055

5.3.3 2014 State Vehicle Mix

2014 State Vehicle Mix							
Rural	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
LDV	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT	MC
Interstate							
0.2606	0.0794	0.2643	0.0814	0.0374	0.0875	0.0085	0.0072
0.0054	0.0197	0.0230	0.0251	0.0895	0.0045	0.0022	0.0043
Princ. Art.							
0.3079	0.0939	0.3126	0.0963	0.0443	0.0449	0.0044	0.0037
0.0028	0.0101	0.0118	0.0129	0.0459	0.0023	0.0011	0.0051
Minor Art.							
0.3137	0.0956	0.3182	0.0980	0.0451	0.0399	0.0039	0.0033
0.0024	0.0090	0.0105	0.0114	0.0408	0.0020	0.0010	0.0052
Major Collector							
0.3309	0.1009	0.3358	0.1034	0.0476	0.0244	0.0024	0.0020
0.0015	0.0055	0.0064	0.0070	0.0249	0.0012	0.0006	0.0055
Minor Collector							
0.3294	0.1004	0.3340	0.1029	0.0473	0.0259	0.0025	0.0021
0.0016	0.0058	0.0068	0.0074	0.0265	0.0013	0.0007	0.0054
Local							
0.3186	0.0972	0.3233	0.0996	0.0458	0.0354	0.0034	0.0029
0.0022	0.0080	0.0093	0.0101	0.0362	0.0018	0.0009	0.0053
Urban							
LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
HDV5	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT	MC
Interstate							
0.2950	0.0900	0.2993	0.0922	0.0424	0.0566	0.0055	0.0046
0.0035	0.0127	0.0149	0.0162	0.0579	0.0029	0.0014	0.0049
Freeway							
0.3154	0.0961	0.3199	0.0985	0.0453	0.0384	0.0037	0.0031
0.0024	0.0086	0.0101	0.0110	0.0393	0.0020	0.0010	0.0052
Princ. Art.							
0.3292	0.1004	0.3339	0.1029	0.0473	0.0260	0.0025	0.0021
0.0016	0.0059	0.0068	0.0074	0.0266	0.0013	0.0007	0.0054
Minor Art							
0.3383	0.1032	0.3433	0.1058	0.0486	0.0177	0.0017	0.0014
0.0011	0.0040	0.0047	0.0051	0.0181	0.0009	0.0005	0.0056
Coll							
0.3413	0.1040	0.3462	0.1067	0.0490	0.0152	0.0015	0.0012
0.0009	0.0034	0.0040	0.0043	0.0155	0.0008	0.0004	0.0056
Local							
0.3291	0.1003	0.3338	0.1028	0.0473	0.0261	0.0025	0.0021
0.0016	0.0059	0.0069	0.0075	0.0267	0.0013	0.0007	0.0054

5.3.4 2017 State Vehicle Mix

2017 State Vehicle Mix							
Rural							
LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
HDV5	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT	MC
Interstate							
0.2439	0.0822	0.2739	0.0844	0.0388	0.0873	0.0087	0.0073
0.0053	0.0196	0.0232	0.0252	0.0893	0.0045	0.0022	0.0042
Princ. Art.							
0.2884	0.0972	0.3238	0.0998	0.0459	0.0448	0.0045	0.0038
0.0027	0.0101	0.0119	0.0129	0.0458	0.0023	0.0011	0.0050
Minor Art.							
0.2937	0.0990	0.3297	0.1016	0.0467	0.0398	0.0040	0.0033
0.0024	0.0089	0.0106	0.0115	0.0407	0.0020	0.0010	0.0051
Major Collector							
0.3100	0.1044	0.3479	0.1072	0.0493	0.0243	0.0024	0.0020
0.0015	0.0055	0.0064	0.0070	0.0249	0.0012	0.0006	0.0054
Minor Collector							
0.3083	0.1039	0.3461	0.1066	0.0490	0.0258	0.0026	0.0022
0.0016	0.0058	0.0069	0.0075	0.0264	0.0013	0.0007	0.0053
Local							
0.2984	0.1006	0.3349	0.1032	0.0474	0.0353	0.0035	0.0030
0.0022	0.0079	0.0094	0.0102	0.0361	0.0018	0.0009	0.0052
Urban							
LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
HDV5	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT	MC
Interstate							
0.2763	0.0931	0.3101	0.0955	0.0439	0.0564	0.0056	0.0048
0.0035	0.0127	0.0150	0.0163	0.0577	0.0029	0.0014	0.0048
Freeway							
0.2953	0.0995	0.3314	0.1021	0.0469	0.0383	0.0038	0.0032
0.0023	0.0086	0.0102	0.0111	0.0392	0.0020	0.0010	0.0051
Princ. Art.							
0.3083	0.1039	0.3459	0.1066	0.0490	0.0259	0.0026	0.0022
0.0016	0.0058	0.0069	0.0075	0.0265	0.0013	0.0007	0.0053
Minor Art							
0.3167	0.1068	0.3557	0.1096	0.0504	0.0176	0.0018	0.0015
0.0011	0.0040	0.0047	0.0051	0.0181	0.0009	0.0005	0.0055
Coll							
0.3195	0.1077	0.3587	0.1105	0.0508	0.0151	0.0015	0.0013
0.0009	0.0034	0.0040	0.0044	0.0155	0.0008	0.0004	0.0055
Local							
0.3083	0.1038	0.3458	0.1066	0.0490	0.0260	0.0026	0.0022
0.0016	0.0058	0.0069	0.0075	0.0266	0.0013	0.0007	0.0053

5.3.5 2021 State Vehicle Mix

2020+ State Vehicle Mix							
Rural	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
LDV	HDV5	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT
Interstate							MC
0.2319	0.0844	0.2808	0.0865	0.0398	0.0873	0.0086	0.0073
0.0055	0.0196	0.0231	0.0251	0.0893	0.0044	0.0022	0.0042
Princ. Art.							
0.2740	0.0998	0.3320	0.1023	0.0471	0.0448	0.0044	0.0037
0.0028	0.0101	0.0119	0.0129	0.0458	0.0023	0.0011	0.0050
Minor Art.							
0.2790	0.1016	0.3380	0.1042	0.0479	0.0398	0.0039	0.0033
0.0025	0.0089	0.0106	0.0115	0.0407	0.0020	0.0010	0.0051
Major Collector							
0.2944	0.1072	0.3567	0.1099	0.0506	0.0243	0.0024	0.0020
0.0015	0.0055	0.0064	0.0070	0.0249	0.0012	0.0006	0.0054
Minor Collector							
0.2929	0.1066	0.3548	0.1094	0.0503	0.0259	0.0025	0.0022
0.0016	0.0058	0.0069	0.0074	0.0264	0.0013	0.0007	0.0053
Local							
0.2835	0.1032	0.3434	0.1058	0.0487	0.0353	0.0035	0.0029
0.0022	0.0079	0.0094	0.0102	0.0361	0.0018	0.0009	0.0052
Urban							
LDV	LDT1	LDT2	LDT3	LDT4	HDV2B	HDV3	HDV4
HDV5	HDV6	HDV7	HDV8a	HDV8b	HDBS	HDBT	MC
Interstate							
0.2622	0.0956	0.3179	0.0980	0.0451	0.0565	0.0056	0.0047
0.0036	0.0127	0.0150	0.0163	0.0577	0.0029	0.0014	0.0048
Freeway							
0.2804	0.1021	0.3398	0.1047	0.0482	0.0384	0.0038	0.0032
0.0024	0.0086	0.0102	0.0110	0.0392	0.0019	0.0010	0.0051
Princ. Art.							
0.2927	0.1066	0.3547	0.1093	0.0503	0.0260	0.0026	0.0022
0.0016	0.0058	0.0069	0.0075	0.0265	0.0013	0.0007	0.0053
Minor Art							
0.3009	0.1096	0.3647	0.1124	0.0517	0.0177	0.0017	0.0015
0.0011	0.0040	0.0047	0.0051	0.0181	0.0009	0.0004	0.0055
Coll							
0.3034	0.1105	0.3677	0.1133	0.0522	0.0151	0.0015	0.0013
0.0010	0.0034	0.0040	0.0044	0.0155	0.0008	0.0004	0.0055
Local							
0.2926	0.1066	0.3546	0.1093	0.0503	0.0260	0.0026	0.0022
0.0016	0.0059	0.0069	0.0075	0.0266	0.0013	0.0007	0.0053