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*****
* MOBILE6.2.03 (24-Sep-2003) *
* Input file: ORNG05.IN (file 11, run 1). *
*****
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Mobile Source Inventory 5-541
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone Appendix C.3
Redesignation Demonstration and Maintenance Plan June 7, 2007

Composite Emission Factors (g/mi):

Composite VOC:	0.759	1.114	0.976	1.079	1.057	0.463	0.585	0.300	3.52	0.807
Composite NOX:	0.694	0.952	1.036	0.974	4.602	2.007	1.921	17.129	1.49	4.849

* * * * *

* Rural minor arterial-Orange County-AM Peak

* File 11, Run 1, Scenario 2.

* * * * *

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.797	1.176	1.021	1.137	1.109	0.477	0.603	0.320	2.87	0.933
Composite NOX:	0.658	0.901	0.985	0.923	4.191	1.283	1.227	10.056	1.16	1.678

* * * * *

* Rural major collector-Orange County-AM Peak

* File 11, Run 1, Scenario 3.

* * * * *

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000

VTM Distribution:0.4377 0.3468 0.1183 0.0261 0.0006 0.0020 0.0626 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.823 1.208 1.045 1.167 1.167 0.496 0.627 0.348 2.90 0.974
Composite NOX: 0.645 0.881 0.966 0.902 4.019 1.159 1.108 9.094 1.10 1.386

* * * * *
* Urban interstate-Orange County-AM Peak
* File 11, Run 1, Scenario 6.
* * * * *
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:0.3930 0.3116 0.1063 0.0533 0.0006 0.0018 0.1281 0.0053 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.762 1.121 0.981 1.085 1.058 0.463 0.585 0.300 3.38 0.867
Composite NOX: 0.689 0.945 1.029 0.967 4.544 1.862 1.782 16.002 1.45 2.978

* * * * *
* Urban freeway-Orange County-AM Peak
* File 11, Run 1, Scenario 7.
* * * * *
* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 22.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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)

Composite Emission Factors (g/mi):										
Composite VOC:	0.977	1.383	1.182	1.332	1.596	0.637	0.808	0.555	3.40	1.151
Composite NOX:	0.690	0.910	1.001	0.933	3.462	1.134	1.084	8.893	0.97	1.288

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* # # # # # # # # # # # # # # # # # # # # # #  
* Rural interstate-Orange County-PM Peak  
* File 11, Run 1, Scenario 12.  
* # # # # # # # # # # # # # # # # # # # # # #  
* 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
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.759	1.114	0.976	1.079	1.057	0.463	0.585	0.300	3.52	0.807
Composite NOX:	0.694	0.952	1.036	0.974	4.602	2.007	1.921	17.129	1.49	4.849

```
* #####
* Rural minor arterial-Orange County-PM Peak
* File 11, Run 1, Scenario 13.
* #####
* 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
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.797	1.176	1.021	1.137	1.109	0.477	0.603	0.320	2.87	0.933
Composite NOX:	0.658	0.901	0.985	0.923	4.191	1.283	1.227	10.056	1.16	1.678

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.827	1.213	1.049	1.171	1.179	0.500	0.633	0.354	2.92	0.978
Composite NOX:	0.643	0.878	0.962	0.899	3.992	1.147	1.096	8.998	1.09	1.380

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Calendar Year:      2005
Month:              July
Altitude:           Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.:  49.0 (%)
Maximum Rel. Hum.:  96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP:   9.0 psi
Weathered RVP:      8.6 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: Yes
Evap I/M Program:     Yes
ATP Program:           Yes

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Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4369	0.3461	0.1181		0.0266	0.0006	0.0020	0.0638	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.832	1.219	1.053	1.176	1.191	0.504	0.638	0.360	2.93	0.983
Composite NOX:	0.640	0.874	0.959	0.896	3.962	1.133	1.083	8.894	1.09	1.378

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:	0.4377	0.3468	0.1183		0.0261	0.0006	0.0020	0.0626	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.823	1.208	1.045	1.167	1.167	0.496	0.627	0.348	2.90	0.974
Composite NOX:	0.645	0.881	0.966	0.902	4.019	1.159	1.108	9.094	1.10	1.384

Exhaust I/M Program: Yes
Evap I/M Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.760	1.117	0.978	1.082	1.057	0.463	0.585	0.300	3.46	0.865
Composite NOX:	0.691	0.949	1.033	0.970	4.574	1.936	1.853	16.574	1.47	3.056

M581 Warning:
The user supplied freeway average speed of 27.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.944	1.347	1.151	1.297	1.518	0.613	0.777	0.519	3.31	1.104
Composite NOX:	0.639	0.857	0.944	0.879	3.527	1.114	1.064	10.191	0.99	1.581

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.

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Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

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5-550
Appendix C.3
June 7, 2007

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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.871	1.262	1.085	1.217	1.304	0.543	0.687	0.417	3.06	1.030
Composite NOX:	0.628	0.855	0.941	0.877	3.755	1.079	1.031	8.466	1.05	1.277

* #
* Urban minor arterial-Orange County-PM Peak
* File 11, Run 1, Scenario 20.
* #
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.888	1.282	1.101	1.236	1.347	0.558	0.706	0.438	3.11	1.057
Composite NOX:	0.637	0.861	0.948	0.883	3.701	1.082	1.034	8.489	1.04	1.137

* #
* Urban collector-Orange County-PM Peak
* File 11, Run 1, Scenario 21.
* #
* Urban collector 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.938	1.340	1.147	1.291	1.483	0.602	0.763	0.504	3.27	1.116
Composite NOX:	0.665	0.885	0.974	0.908	3.554	1.104	1.055	8.672	1.00	1.116

* #

* Urban local-Orange County-PM Peak

* File 11, Run 1, Scenario 22.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.977	1.383	1.182	1.332	1.596	0.637	0.808	0.555	3.40	1.151
Composite NOX:	0.690	0.910	1.001	0.933	3.462	1.134	1.084	8.893	0.97	1.288

* #

* Rural interstate-Orange County-OP Peak

* File 11, Run 1, Scenario 23.

* #

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.759	1.114	0.976	1.079	1.057	0.463	0.585	0.300	3.52	0.807
Composite NOX:	0.694	0.952	1.036	0.974	4.602	2.007	1.921	17.129	1.49	4.849

* #
* Rural minor arterial-Orange County-OP Peak
* File 11, Run 1, Scenario 24.
* #
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.793	1.171	1.017	1.132	1.103	0.475	0.601	0.317	2.87	0.928
Composite NOX:	0.661	0.905	0.989	0.927	4.222	1.320	1.262	10.344	1.19	1.706

* #
* Rural major collector-Orange County-OP Peak
* File 11, Run 1, Scenario 25.
* #
* Rural major collector 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.823	1.208	1.045	1.167	1.167	0.496	0.627	0.348	2.90	0.973
Composite NOX:	0.645	0.881	0.966	0.902	4.019	1.159	1.108	9.095	1.10	1.389

* #

* Rural minor collector-Orange County-OP Peak

* File 11, Run 1, Scenario 26.

* #

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4369	0.3461	0.1181		0.0266	0.0006	0.0020	0.0638	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.832	1.219	1.053	1.176	1.191	0.504	0.638	0.360	2.93	0.983
Composite NOX:	0.640	0.874	0.959	0.896	3.962	1.133	1.083	8.894	1.09	1.378

* #

* Rural local-Orange County-OP Peak

* File 11, Run 1, Scenario 27.

* #

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.818	1.203	1.041	1.162	1.156	0.492	0.622	0.342	2.89	0.969
Composite NOX:	0.647	0.884	0.969	0.906	4.045	1.171	1.119	9.187	1.10	1.394

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.757	1.111	0.973	1.076	1.056	0.463	0.585	0.300	3.59	0.862
Composite NOX:	0.696	0.956	1.040	0.977	4.629	2.077	1.987	17.665	1.52	3.204

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.843	1.230	1.062	1.187	1.217	0.513	0.650	0.373	2.95	0.987
Composite NOX:	0.636	0.867	0.952	0.889	3.899	1.105	1.056	10.126	1.08	1.599

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial-Orange County-OP Peak
* File 11, Run 1, Scenario 30.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial mix and speeds
M615 Comment:
```

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
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. 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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.853	1.242	1.070	1.198	1.250	0.524	0.664	0.389	2.99	1.010
Composite NOX:	0.633	0.862	0.948	0.884	3.847	1.095	1.047	8.596	1.07	1.293

```
* #####
* Urban minor arterial-Orange County-OP Peak
* File 11, Run 1, Scenario 31.
* #####
* 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
```

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

```


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)							
VTMT Distribution:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.879	1.271	1.093	1.226	1.324	0.550	0.696	0.427	3.08	1.048
Composite NOX:	0.632	0.858	0.944	0.880	3.728	1.080	1.032	8.475	1.05	1.133

```

* #####
* Urban collector-Orange County-OP Peak
* File 11, Run 1, Scenario 32.
* #####
* Urban collector 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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. 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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.927	1.328	1.138	1.279	1.451	0.592	0.750	0.489	3.24	1.104
Composite NOx:	0.658	0.878	0.966	0.901	3.581	1.096	1.047	8.605	1.01	1.107

```
* #####
* Urban local-Orange County-OP Peak
* File 11, Run 1, Scenario 33.
* #####
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 26.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 92. 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:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.963	1.368	1.169	1.317	1.556	0.625	0.792	0.536	3.35	1.135
Composite NOX:	0.681	0.901	0.991	0.924	3.496	1.124	1.074	8.810	0.98	1.276

* #

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.839	1.240	1.088	1.201	1.109	0.477	0.603	0.320	2.87	0.980
Composite NOX:	0.707	0.982	1.067	1.004	4.191	1.283	1.227	10.056	1.16	1.735

* #

* Rural major collector-Orange County-AM Peak

* File 12, Run 1, Scenario 3.

* #

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.873	1.281	1.120	1.240	1.179	0.500	0.633	0.354	2.92	1.030
Composite NOX:	0.692	0.958	1.044	0.980	3.992	1.147	1.096	8.998	1.09	1.439

* #

* Rural minor collector-Orange County-AM Peak

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural local-Orange County-AM Peak
* File 12, Run 1, Scenario 5.
* #####
* Rural local mix and speeds
M615 Comment:
          User supplied VMT mix.
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

M581 Warning:

M 48 Warning:

Calendar Year: 2005

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

VMT Distribution:0.3930 0.3116 0.1063 0.0533 0.0006 0.0018 0.1281 0.0053 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.800	1.178	1.040	1.143	1.058	0.463	0.585	0.300	3.38	0.906
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX:	0.737	1.027	1.112	1.048	4.544	1.862	1.782	16.002	1.45	3.032
----------------	-------	-------	-------	-------	-------	-------	-------	--------	------	-------

* #

* Urban freeway-Orange County-AM Peak

* File 12, Run 1, Scenario 7.

* #

* Urban freeway mix and speeds

M581 Warning:

M 48 Warning:

Calendar Year: 2005

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Bel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

VMT Distribution:0.4276 0.3390 0.1157 0.0321 0.0006 0.0020 0.0772 0.0058 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	1.065	1.508	1.298	1.455	1.736	0.677	0.858	0.613	3.54	1.243
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite VOC:	1.003	1.308	1.238	1.155	1.738	0.677	0.838	0.615	0.91	1.215
Composite NOX:	0.694	0.934	1.024	0.957	3.382	1.183	1.130	10.725	0.94	1.677


```
* Urban collector-Orange County-AM Peak  
* File 12, Run 1, Scenario 10.  
* # # # # #  
* Urban collector mix and speeds
```

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. 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:0.4559 0.3612 0.1233 0.0150 0.0006 0.0021 0.0358 0.0061 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	1.005	1.435	1.244	1.386	1.517	0.613	0.777	0.519	3.31	1.193
Composite NOX:	0.725	0.976	1.067	0.999	3.525	1.114	1.064	8.743	0.99	1.190

* ##

* Urban local-Orange County-AM Peak

* File 12, Run 1, Scenario 11.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. 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:0.4453 0.3529 0.1204 0.0214 0.0006 0.0020 0.0513 0.0060 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	1.033	1.467	1.270	1.417	1.596	0.637	0.808	0.555	3.40	1.216
Composite NOX:	0.743	0.994	1.087	1.017	3.462	1.134	1.084	8.893	0.97	1.352

Composite Emission Factors (g/mi):
 Composite VOC: 0.798 1.174 1.037 1.139 1.057 0.463 0.585 0.300 3.46 0.904
 Composite NOX: 0.740 1.031 1.115 1.052 4.574 1.936 1.853 16.574 1.47 3.109

* * * * *
 * Urban freeway-Orange County-PM Peak
 * File 12, Run 1, Scenario 18.
 * * * * *
 * Urban freeway mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 27.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.998 1.429 1.237 1.380 1.518 0.613 0.777 0.519 3.31 1.164
 Composite NOX: 0.690 0.938 1.027 0.960 3.527 1.114 1.064 10.191 0.99 1.640

* * * * *
 * Urban principle arterial-Orange County-PM Peak
 * File 12, Run 1, Scenario 19.
 * * * * *
 * Urban principle arterial 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 92. 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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.992	1.421	1.232	1.373	1.483	0.602	0.763	0.504	3.27	1.179
Composite NOX:	0.717	0.968	1.058	0.991	3.554	1.104	1.055	8.672	1.00	1.180

M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	1.033	1.467	1.270	1.417	1.596	0.637	0.808	0.555	3.40	1.216
Composite NOX:	0.743	0.994	1.087	1.017	3.462	1.134	1.084	8.893	0.97	1.352

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.

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. 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 VOC:	0.863	1.270	1.111	1.230	1.156	0.492	0.622	0.342	2.89	1.020
Composite NOX:	0.696	0.964	1.050	0.986	4.045	1.171	1.119	9.187	1.10	1.453

```
* # # # # # # # # # # # # # # # # # # #  
* Urban interstate-Orange County-OP Peak  
* File 12, Run 1, Scenario 28.  
* # # # # # # # # # # # # # # # # # # #  
* Urban 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
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.794	1.166	1.031	1.131	1.056	0.463	0.585	0.300	3.59	0.900
Composite NOX:	0.744	1.038	1.123	1.059	4.629	2.077	1.987	17.665	1.52	3.257

```
* #####
* Urban freeway-Orange County-OP Peak
* File 12, Run 1, Scenario 29.
* #####
* Urban freeway mix and speeds
  M615 Comment:
      User supplied VMT mix.
  M581 Warning:
      The user supplied freeway average speed of 40.0
      will be used for all hours of the day. 100% of VMT
      has been assigned to the 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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite VOC:	0.889	1.300	1.135	1.258	1.217	0.513	0.650	0.373	2.95	1.039
Composite NOX:	0.685	0.947	1.034	0.969	3.899	1.105	1.056	10.126	1.08	1.649

* * * * *

* Urban principle arterial-Orange County-OP Peak

* File 12, Run 1, Scenario 30.

* * * * *

* 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

 Calendar Year: 2005

 Month: July

 Altitude: Low

 Minimum Temperature: 73.0 (F)

 Maximum Temperature: 89.0 (F)

 Minimum Rel. Hum.: 49.0 (%)

 Maximum Rel. Hum.: 96.0 (%)

 Barometric Pressure: 30.00 (inches Hg)

 Nominal Fuel RVP: 9.0 psi

 Weathered RVP: 8.6 psi

 Fuel Sulfur Content: 92. 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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite VOC:	0.901	1.313	1.145	1.270	1.250	0.524	0.664	0.389	2.99	1.064
Composite NOX:	0.682	0.943	1.030	0.965	3.847	1.095	1.047	8.596	1.07	1.352

* * * * *

* Urban minor arterial-Orange County-OP Peak

* File 12, Run 1, Scenario 31.

* * * * *

* 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

 Calendar Year: 2005

 Month: July

 Altitude: Low

 Minimum Temperature: 73.0 (F)

 Maximum Temperature: 89.0 (F)

 Minimum Rel. Hum.: 49.0 (%)

 Maximum Rel. Hum.: 96.0 (%)

 Barometric Pressure: 30.00 (inches Hg)

 Nominal Fuel RVP: 9.0 psi

 Weathered RVP: 8.6 psi

 Fuel Sulfur Content: 92. ppm

 Exhaust I/M Program: No

 Evap I/M Program: No

 ATP Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.929	1.346	1.170	1.301	1.324	0.550	0.696	0.427	3.08	1.106
Composite NOX:	0.682	0.939	1.027	0.961	3.728	1.080	1.032	8.475	1.05	1.195

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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.980	1.407	1.221	1.360	1.451	0.592	0.750	0.489	3.24	1.167
Composite NOX:	0.709	0.960	1.050	0.983	3.581	1.096	1.047	8.605	1.01	1.171

Exhaust I/M Program: No
Evap I/M Program: No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	1.018	1.450	1.256	1.401	1.556	0.625	0.792	0.536	3.35	1.199
Composite NOX:	0.734	0.984	1.076	1.008	3.496	1.124	1.074	8.810	0.98	1.339

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.

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.794	1.166	1.031	1.131	1.056	0.463	0.585	0.300	3.59	0.837
Composite NOx:	0.744	1.038	1.122	1.059	4.629	2.077	1.987	17.666	1.52	5.019

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.

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

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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:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.858	1.264	1.106	1.224	1.146	0.489	0.618	0.337	2.89	0.987
Composite NOX:	0.698	0.968	1.054	0.990	4.077	1.195	1.143	10.826	1.11	2.010

* #
* Rural minor arterial-Granville County-Rural
* File 12, Run 1, Scenario 36.
* #
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.868	1.276	1.116	1.235	1.167	0.496	0.627	0.348	2.90	1.012
Composite NOX:	0.694	0.961	1.047	0.983	4.018	1.159	1.108	9.095	1.10	1.635

* #
* Rural major collector-Granville County-Rural
* File 12, Run 1, Scenario 37.
* #
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.878	1.287	1.125	1.246	1.191	0.504	0.638	0.360	2.93	1.036
Composite NOX:	0.690	0.955	1.041	0.977	3.962	1.133	1.083	8.897	1.09	1.429

* #

* Rural minor collector-Granville County-Rural

* File 12, Run 1, Scenario 38.

* #

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4369	0.3461	0.1181		0.0266	0.0006	0.0020	0.0638	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.878	1.287	1.125	1.246	1.191	0.504	0.638	0.360	2.93	1.035
Composite NOX:	0.690	0.955	1.041	0.977	3.962	1.133	1.083	8.894	1.09	1.437

* #

* Rural local-Granville County-Rural

* File 12, Run 1, Scenario 39.

* #

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. ppm

Fuel Sulfur Content: 92. 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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.980	1.407	1.221	1.360	1.453	0.592	0.750	0.489	3.24	1.154
Composite NOX:	0.709	0.960	1.050	0.983	3.583	1.096	1.047	8.600	1.01	1.366

* #
* Urban minor arterial-Granville County-Rural
* File 12, Run 1, Scenario 42.
* #
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 92. 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:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.958	1.381	1.200	1.335	1.396	0.574	0.727	0.462	3.17	1.139
Composite NOX:	0.697	0.949	1.038	0.972	3.641	1.086	1.038	8.519	1.02	1.207

* #
* Urban collector-Granville County-Rural
* File 12, Run 1, Scenario 43.
* #
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

[illegible]

```
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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	92. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* Reading Registration Distributions from the following external
* data file: TRGAGE04.PRN
M 49 Warning:      0.998      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:      0.999      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)
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:      1.00      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:      1.00      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:      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)
* OBDII
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate-Orange County-AM Peak
* File 13, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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
```

Calendar Year: 2008 Month: July Altitude: Low Minimum Temperature: 73.0 (F) Maximum Temperature: 89.0 (F) Minimum Rel. Hum.: 49.0 (%) Maximum Rel. Hum.: 96.0 (%) Barometric Pressure: 30.00 (inches Hg) Nominal Fuel RVP: 9.0 psi Weathered RVP: 8.6 psi Fuel Sulfur Content: 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.543	0.835	0.698	0.800	0.820	0.219	0.320	0.251	3.43	0.613
Composite NOX:	0.454	0.695	0.788	0.719	3.222	1.005	1.176	12.080	1.49	3.433

Composite NOX: 0.421 0.622 0.717 0.646 2.389 0.581 0.676 7.219 0.95 1.124

* * * * *

* Urban principle arterial-Orange County-AM Peak

* File 13, Run 1, Scenario 8.

* * * * *

* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.635	0.943	0.781	0.902	1.019	0.265	0.396	0.358	3.01	0.778
Composite NOX:	0.414	0.625	0.719	0.649	2.611	0.538	0.626	6.005	1.05	0.915

* * * * *

* Urban minor arterial-Orange County-AM Peak

* File 13, Run 1, Scenario 9.

* * * * *

* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.641	0.950	0.787	0.908	1.036	0.269	0.402	0.368	3.03	0.790
Composite NOX:	0.417	0.628	0.721	0.651	2.592	0.539	0.627	6.014	1.04	0.814

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* Urban collector-Orange County-AM Peak

* File 13, Run 1, Scenario 10.

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* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 27.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.686	1.000	0.828	0.956	1.161	0.298	0.450	0.436	3.23	0.842
Composite NOX:	0.441	0.650	0.747	0.675	2.469	0.555	0.646	6.199	0.99	0.806

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* Urban local-Orange County-AM Peak

* File 13, Run 1, Scenario 11.

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* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite VOC: 0.704 1.021 0.845 0.977 1.218 0.311 0.471 0.465 3.31 0.858
 Composite NOX: 0.452 0.662 0.761 0.687 2.424 0.565 0.658 6.315 0.97 0.920

* * * * *
 * Rural interstate-Orange County-PM Peak
 * File 13, Run 1, Scenario 12.
 * * * * *
 * 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.544 0.837 0.700 0.802 0.820 0.219 0.320 0.251 3.37 0.614
 Composite NOX: 0.452 0.692 0.786 0.716 3.203 0.969 1.134 11.668 1.47 3.336

* * * * *
 * Rural minor arterial-Orange County-PM Peak
 * File 13, Run 1, Scenario 13.
 * * * * *
 * 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000


```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.572   0.877   0.730   0.839   0.860   0.227   0.332   0.268   2.80   0.700
Composite NOX:   0.431   0.657   0.750   0.681   2.934   0.640   0.746   7.177   1.16   1.203
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* Rural major collector-Orange County-PM Peak

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* File 13, Run 1, Scenario 14.

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* Rural major collector mix and speeds

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M615 Comment:

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    User supplied VMT mix.

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M583 Warning:

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    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.

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M 48 Warning:

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    there are no sales for vehicle class HDGV8b

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        Calendar Year: 2008
        Month: July
        Altitude: Low
        Minimum Temperature: 73.0 (F)
        Maximum Temperature: 89.0 (F)
        Minimum Rel. Hum.: 49.0 (%)
        Maximum Rel. Hum.: 96.0 (%)
        Barometric Pressure: 30.00 (inches Hg)
        Nominal Fuel RVP: 9.0 psi
        Weathered RVP: 8.6 psi
        Fuel Sulfur Content: 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.596   0.902   0.750   0.863   0.912   0.239   0.352   0.297   2.84   0.733
Composite NOX:   0.421   0.640   0.733   0.664   2.795   0.572   0.665   6.391   1.09   0.987
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* Rural minor collector-Orange County-PM Peak

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* File 13, Run 1, Scenario 15.

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* Rural minor collector mix and speeds

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M615 Comment:

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    User supplied VMT mix.

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M583 Warning:

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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.

```

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M 48 Warning:

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    there are no sales for vehicle class HDGV8b

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        Calendar Year: 2008
        Month: July
        Altitude: Low
        Minimum Temperature: 73.0 (F)
        Maximum Temperature: 89.0 (F)
        Minimum Rel. Hum.: 49.0 (%)
        Maximum Rel. Hum.: 96.0 (%)
        Barometric Pressure: 30.00 (inches Hg)
        Nominal Fuel RVP: 9.0 psi
        Weathered RVP: 8.6 psi
        Fuel Sulfur Content: 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:0.3936 0.3789 0.1292 0.0265 0.0004 0.0020 0.0638 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.599 0.906 0.753 0.867 0.921 0.241 0.356 0.302 2.86 0.737
Composite NOX: 0.420 0.638 0.730 0.661 2.774 0.565 0.657 6.316 1.09 0.985

* * * * *
* Rural local-Orange County-PM Peak
* File 13, Run 1, Scenario 16.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:0.3939 0.3797 0.1295 0.0260 0.0004 0.0020 0.0629 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.589 0.895 0.744 0.857 0.896 0.235 0.345 0.287 2.82 0.726
Composite NOX: 0.424 0.645 0.737 0.668 2.834 0.584 0.680 6.531 1.10 1.000

* * * * *
* Urban interstate-Orange County-PM Peak
* File 13, Run 1, Scenario 17.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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)

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:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.686	1.000	0.828	0.956	1.161	0.298	0.450	0.436	3.23	0.842
Composite NOX:	0.441	0.650	0.747	0.675	2.469	0.555	0.646	6.199	0.99	0.806

* * * * *

* Urban local-Orange County-PM Peak

* File 13, Run 1, Scenario 22.

* * * * *

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.704	1.021	0.845	0.977	1.218	0.311	0.471	0.465	3.31	0.858
Composite NOX:	0.452	0.662	0.761	0.687	2.424	0.565	0.658	6.315	0.97	0.920

* * * * *

* Rural interstate-Orange County-OP Peak

* File 13, Run 1, Scenario 23.

* * * * *

* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.541	0.833	0.696	0.798	0.819	0.219	0.320	0.251	3.50	0.612
Composite NOX:	0.455	0.697	0.791	0.721	3.242	1.040	1.217	12.479	1.52	3.526

* * * * *

* Rural minor arterial-Orange County-OP Peak

* File 13, Run 1, Scenario 24.

* * * * *

* 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 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:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.569	0.873	0.727	0.836	0.855	0.226	0.331	0.266	2.80	0.697
Composite NOX:	0.433	0.660	0.753	0.684	2.956	0.659	0.768	7.391	1.19	1.224

* * * * *

* Rural major collector-Orange County-OP Peak

* File 13, Run 1, Scenario 25.

* * * * *

* Rural major collector 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: 2008

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.592	0.899	0.747	0.860	0.904	0.237	0.349	0.292	2.83	0.730
Composite NOX:	0.422	0.642	0.735	0.666	2.815	0.578	0.673	6.463	1.10	0.994

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:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.599	0.906	0.753	0.867	0.921	0.241	0.356	0.302	2.86	0.737
Composite NOX:	0.420	0.638	0.730	0.661	2.774	0.565	0.657	6.316	1.09	0.985

Exhaust I/M Program: Yes
Evap I/M Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.589	0.895	0.744	0.857	0.896	0.235	0.345	0.287	2.82	0.726
Composite NOX:	0.424	0.645	0.737	0.668	2.834	0.584	0.680	6.531	1.10	1.000

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.3540	0.3411	0.1163		0.0531	0.0004	0.0018	0.1283	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.541	0.833	0.696	0.798	0.819	0.219	0.320	0.251	3.50	0.651
Composite NOX:	0.455	0.697	0.791	0.721	3.242	1.040	1.217	12.479	1.52	2.275

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Fuel Sulfur Content: 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:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.635	0.943	0.781	0.902	1.020	0.265	0.396	0.359	3.01	0.784
Composite NOX:	0.414	0.625	0.719	0.649	2.611	0.538	0.626	6.004	1.05	0.812

* #

* Urban collector-Orange County-OP Peak

* File 13, Run 1, Scenario 32.

* #

* Urban collector 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.669	0.982	0.813	0.939	1.113	0.287	0.432	0.410	3.16	0.823
Composite NOX:	0.431	0.640	0.735	0.664	2.508	0.546	0.635	6.096	1.01	0.793

* #

* Urban local-Orange County-OP Peak

* File 13, Run 1, Scenario 33.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Composite Emission Factors (g/mi):										
Composite VOC:	0.695	1.010	0.836	0.966	1.189	0.304	0.460	0.450	3.27	0.847
Composite NOX:	0.446	0.656	0.753	0.681	2.447	0.560	0.652	6.253	0.98	0.912
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural local-Orange County-AM Peak
* File 14, Run 1, Scenario 5.
* #####
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

* #
 * Urban principle arterial-Orange County-AM Peak
 * File 14, Run 1, Scenario 8.
 * #
 * 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.703	1.041	0.877	0.999	1.019	0.265	0.396	0.358	3.01	0.855
Composite NOX:	0.480	0.724	0.815	0.747	2.611	0.538	0.626	6.005	1.05	0.991

* #
 * Urban minor arterial-Orange County-AM Peak
 * File 14, Run 1, Scenario 9.
 * #
 * 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.710	1.049	0.884	1.007	1.036	0.269	0.402	0.368	3.03	0.871
Composite NOX:	0.483	0.726	0.818	0.749	2.592	0.539	0.627	6.014	1.04	0.892

* * * * *
 * Rural interstate-Orange County-PM Peak
 * File 14, Run 1, Scenario 12.
 * * * * *
 * 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.597	0.913	0.773	0.877	0.820	0.219	0.320	0.251	3.37	0.658
Composite NOX:	0.516	0.792	0.883	0.815	3.203	0.969	1.134	11.668	1.47	3.393

* * * * *
 * Rural minor arterial-Orange County-PM Peak
 * File 14, Run 1, Scenario 13.
 * * * * *
 * 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.632	0.962	0.813	0.924	0.860	0.227	0.332	0.268	2.80	0.765

Composite NOX: 0.495 0.756 0.846 0.779 2.934 0.640 0.746 7.177 1.16 1.276

* * * * *

* Rural major collector-Orange County-PM Peak

* File 14, Run 1, Scenario 14.

* * * * *

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.659	0.993	0.838	0.953	0.912	0.239	0.352	0.297	2.84	0.804
Composite NOX:	0.485	0.738	0.828	0.761	2.795	0.572	0.665	6.391	1.09	1.062

* * * * *

* Rural minor collector-Orange County-PM Peak

* File 14, Run 1, Scenario 15.

* * * * *

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.663	0.997	0.841	0.958	0.921	0.241	0.356	0.302	2.86	0.808
Composite NOX:	0.484	0.735	0.826	0.758	2.774	0.565	0.657	6.316	1.09	1.060

* * * * *

* Rural local-Orange County-PM Peak

* File 14, Run 1, Scenario 16.

* * * * *

* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.651	0.984	0.831	0.945	0.896	0.235	0.345	0.287	2.82	0.796
Composite NOX:	0.488	0.743	0.833	0.766	2.834	0.584	0.680	6.531	1.10	1.074

* * * * *

* Urban interstate-Orange County-PM Peak

* File 14, Run 1, Scenario 17.

* * * * *

* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3540	0.3411	0.1163		0.0531	0.0004	0.0018	0.1283	0.0051	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite VOC: 0.600 0.916 0.776 0.880 0.821 0.219 0.320 0.251 3.30 0.708
 Composite NOX: 0.514 0.789 0.880 0.812 3.182 0.932 1.090 11.243 1.45 2.175

* * * * *
 * Urban freeway-Orange County-PM Peak
 * File 14, Run 1, Scenario 18.
 * * * * *
 * Urban freeway mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 29.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3855	0.3711	0.1264		0.0319	0.0004	0.0019	0.0772	0.0056	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.740 1.084 0.913 1.040 1.113 0.287 0.432 0.410 3.16 0.889
 Composite NOX: 0.484 0.724 0.815 0.747 2.509 0.546 0.635 6.820 1.01 1.172

* * * * *
 * Urban principle arterial-Orange County-PM Peak
 * File 14, Run 1, Scenario 19.
 * * * * *
 * Urban principle arterial 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000

```

* #####
* Urban minor arterial-Orange County-PM Peak
* File 14, Run 1, Scenario 20.
* #####
* Urban minor arterial mix and speeds
* M615 Comment:

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```

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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	3.0 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)							
MT Distribution:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000

```

* #####
* Urban collector-Orange County-PM Peak
* File 14, Run 1, Scenario 21.
* #####
* Urban collector mix and speeds
M615 Comment:

```

User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 27.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:0.4107 0.3954 0.1348 0.0148 0.0004 0.0021 0.0360 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.761 1.107 0.933 1.063 1.161 0.298 0.450 0.436 3.23 0.929
Composite NOX: 0.508 0.751 0.846 0.775 2.469 0.555 0.646 6.199 0.99 0.887

* * * * *
* Urban local-Orange County-PM Peak
* File 14, Run 1, Scenario 22.
* * * * *
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:0.4013 0.3863 0.1317 0.0212 0.0004 0.0020 0.0513 0.0058 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.782 1.132 0.953 1.086 1.218 0.311 0.471 0.465 3.31 0.946
Composite NOX: 0.521 0.765 0.861 0.789 2.424 0.565 0.658 6.315 0.97 1.000

* * * * *
* Rural interstate-Orange County-OP Peak
* File 14, Run 1, Scenario 23.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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)

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 VOC:	0.651	0.984	0.831	0.945	0.896	0.235	0.345	0.287	2.82	0.796
Composite NOX:	0.488	0.743	0.833	0.766	2.834	0.584	0.680	6.531	1.10	1.074

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 VOC:	0.594	0.907	0.768	0.872	0.819	0.219	0.320	0.251	3.50	0.703
Composite NOX:	0.519	0.797	0.889	0.821	3.242	1.040	1.217	12.479	1.52	2.343

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Exhaust I/M Program: No
Evap I/M Program: No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
MT Distribution:	0.3855	0.3711	0.1264		0.0319	0.0004	0.0019	0.0772	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.672	1.007	0.849	0.967	0.941	0.246	0.364	0.313	2.88	0.811
Composite NOX:	0.481	0.730	0.821	0.753	2.731	0.551	0.641	6.874	1.08	1.185

```

M583 Warning:      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.

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.681	1.016	0.857	0.976	0.964	0.252	0.373	0.327	2.92	0.831
Composite NOx:	0.479	0.727	0.818	0.750	2.693	0.546	0.635	6.093	1.07	1.000

```

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.

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

5-615
Appendix C.3
June 7, 2007

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:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.703	1.041	0.877	0.999	1.020	0.265	0.396	0.359	3.01	0.863
Composite NOX:	0.480	0.724	0.815	0.747	2.611	0.538	0.626	6.004	1.05	0.890

* #
* Urban collector-Orange County-OP Peak
* File 14, Run 1, Scenario 32.
* #
* Urban collector 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.743	1.087	0.915	1.043	1.113	0.287	0.432	0.410	3.16	0.909
Composite NOX:	0.498	0.740	0.833	0.763	2.508	0.546	0.635	6.096	1.01	0.873

* #
* Urban local-Orange County-OP Peak
* File 14, Run 1, Scenario 33.
* #
* Urban local mix and speeds

M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.771	1.119	0.942	1.074	1.189	0.304	0.460	0.450	3.27	0.934
Composite NOX:	0.515	0.758	0.853	0.782	2.447	0.560	0.652	6.253	0.98	0.991

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.596	0.910	0.771	0.875	0.820	0.219	0.320	0.251	3.43	0.657
Composite NOx:	0.518	0.795	0.886	0.818	3.222	1.005	1.176	12.080	1.49	3.488

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3699	0.3563	0.1214		0.0424	0.0004	0.0019	0.1025	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.647	0.980	0.827	0.941	0.887	0.233	0.343	0.283	2.82	0.771
Composite NOX:	0.489	0.746	0.836	0.769	2.855	0.596	0.694	7.396	1.11	1.435

```

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.

```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.655	0.988	0.834	0.949	0.903	0.237	0.349	0.292	2.83	0.790
Composite NOx:	0.486	0.740	0.831	0.763	2.814	0.578	0.673	6.462	1.10	1.201

```

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.

```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi

Fuel Sulfur Content: 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.668	1.002	0.845	0.962	0.931	0.243	0.360	0.307	2.87	0.813
Composite NOX:	0.482	0.733	0.823	0.756	2.754	0.558	0.649	6.236	1.08	1.047

* #
* Rural minor collector-Granville County-Rural
* File 14, Run 1, Scenario 38.
* #
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.663	0.997	0.841	0.958	0.921	0.241	0.356	0.302	2.86	0.808
Composite NOX:	0.484	0.735	0.826	0.758	2.774	0.565	0.657	6.316	1.09	1.060

* #
* Rural local-Granville County-Rural
* File 14, Run 1, Scenario 39.
* #
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* # # # # # # # # # # # # # # # # # # #  
* Urban interstate-Granville County-Rural  
* File 14, Run 1, Scenario 40.  
* # # # # # # # # # # # # # # # # # # #  
* 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
```

```
* #####
* Urban principle arterial-Granville County-Rural
* File 14, Run 1, Scenario 41.
* #####
* 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
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.743	1.087	0.915	1.043	1.114	0.287	0.432	0.410	3.16	0.899
Composite NOX:	0.498	0.740	0.833	0.763	2.509	0.546	0.635	6.095	1.01	1.009

* #
* Urban minor arterial-Granville County-Rural
* File 14, Run 1, Scenario 42.
* #
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.726	1.067	0.899	1.024	1.072	0.278	0.416	0.388	3.09	0.888
Composite NOX:	0.489	0.732	0.824	0.755	2.550	0.541	0.629	6.036	1.02	0.898

* #
* Urban collector-Granville County-Rural
* File 14, Run 1, Scenario 43.
* #
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.726	1.067	0.899	1.024	1.071	0.278	0.416	0.388	3.09	0.890
Composite NOX:	0.489	0.732	0.824	0.755	2.549	0.541	0.629	6.038	1.02	0.864

* #
 * Urban local-Granville County-Rural
 * File 14, Run 1, Scenario 44.
 * #
 * 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.726	1.067	0.899	1.024	1.071	0.278	0.416	0.388	3.09	0.883
Composite NOX:	0.489	0.732	0.824	0.755	2.549	0.541	0.629	6.035	1.02	0.958

M615 Comment:

M583 Warning:

M 48 Warning:

Calendar Year: 2011

Altitude: Low

Temperature: 73.

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (in)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

el Sulfur Content: 30. ppm

REFERENCES

haust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Reformulated Gas: No

VMT Distribution:	0.3546	0.4081	0.1391	0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
-------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------

Composite VOC:	0.428	0.724	0.575	0.686	0.696	0.116	0.215	0.253	2.80	0.578
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX: 0.285 0.467 0.514 0.479 1.782 0.239 0.378 3.973 1.09 0.671

* Rural local-Orange County-AM Peak

* File 15, Run 1, Scenario 5.

* Rural local mix and speeds

typ

Year: 2011

Month: Jul:

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (in

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.

el Sulfur Content: 30

[illegible]

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	RDDV	MC	All	Vehicle
GVWR:	<6000	>6000	(All)								

Composite VOC: 0.423 0.719 0.571 0.681 0.684 0.114 0.210 0.244 2.77 0.572

Composite VOC:	0.423	0.715	0.571	0.081	0.084	0.114	0.210	0.244	2.77	0.572
Composite NOX:	0.287	0.470	0.518	0.482	1.808	0.245	0.387	4.069	1.10	0.676

Composite NOX: 0.286 0.456 0.505 0.468 1.557 0.240 0.378 4.289 0.97 0.738

* * * * *

* Urban principle arterial-Orange County-AM Peak

* File 15, Run 1, Scenario 8.

* * * * *

* Urban principle 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
Composite VOC: 0.458 0.755 0.601 0.716 0.773 0.131 0.245 0.307 2.97 0.612
Composite NOX: 0.284 0.459 0.508 0.471 1.664 0.228 0.360 3.784 1.04 0.628

* * * * *

* Urban minor arterial-Orange County-AM Peak

* File 15, Run 1, Scenario 9.

* * * * *

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.458	0.755	0.601	0.716	0.773	0.131	0.245	0.308	2.97	0.617
Composite NOX:	0.284	0.459	0.508	0.471	1.665	0.228	0.360	3.789	1.04	0.564

* * * * *

* Urban collector-Orange County-AM Peak

* File 15, Run 1, Scenario 10.

* * * * *

* Urban collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 26.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.496	0.801	0.639	0.760	0.872	0.150	0.283	0.377	3.20	0.663
Composite NOX:	0.304	0.480	0.530	0.493	1.572	0.237	0.375	3.939	0.98	0.565

* * * * *

* Urban local-Orange County-AM Peak

* File 15, Run 1, Scenario 11.

* * * * *

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 24.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite VOC: 0.511 0.819 0.655 0.777 0.912 0.157 0.297 0.402 3.28 0.677
 Composite NOX: 0.312 0.489 0.541 0.502 1.546 0.243 0.383 4.033 0.96 0.639

* * * * *
 * Rural interstate-Orange County-PM Peak
 * File 15, Run 1, Scenario 12.
 * * * * *
 * 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.392 0.678 0.539 0.642 0.624 0.105 0.192 0.210 3.30 0.487
 Composite NOX: 0.308 0.507 0.556 0.520 2.057 0.412 0.654 7.248 1.47 2.123

* * * * *
 * Rural minor arterial-Orange County-PM Peak
 * File 15, Run 1, Scenario 13.
 * * * * *
 * 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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.409   0.704   0.559   0.667   0.653   0.109   0.200   0.225   2.75   0.551
Composite NOX:   0.294   0.481   0.529   0.494   1.885   0.272   0.429   4.526   1.16   0.809
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* Rural major collector-Orange County-PM Peak

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* File 15, Run 1, Scenario 14.

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* Rural major collector mix and speeds

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M615 Comment:

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    User supplied VMT mix.

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M583 Warning:

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    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: 73.0 (F)
        Maximum Temperature: 89.0 (F)
        Minimum Rel. Hum.: 49.0 (%)
        Maximum Rel. Hum.: 96.0 (%)
        Barometric Pressure: 30.00 (inches Hg)
        Nominal Fuel RVP: 9.0 psi
        Weathered RVP: 8.6 psi
        Fuel Sulfur Content: 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:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.425   0.721   0.573   0.684   0.690   0.115   0.213   0.248   2.79   0.575
Composite NOX:   0.286   0.468   0.516   0.481   1.796   0.242   0.382   4.023   1.09   0.672
-----

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* Rural minor collector-Orange County-PM Peak

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* File 15, Run 1, Scenario 15.

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* * * * *

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* Rural minor collector mix and speeds

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M615 Comment:

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    User supplied VMT mix.

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M583 Warning:

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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:

```

```

    there are no sales for vehicle class HDGV8b

```

```

        Calendar Year: 2011
        Month: July
        Altitude: Low
        Minimum Temperature: 73.0 (F)
        Maximum Temperature: 89.0 (F)
        Minimum Rel. Hum.: 49.0 (%)
        Maximum Rel. Hum.: 96.0 (%)
        Barometric Pressure: 30.00 (inches Hg)
        Nominal Fuel RVP: 9.0 psi
        Weathered RVP: 8.6 psi
        Fuel Sulfur Content: 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:0.3546 0.4081 0.1391 0.0264 0.0003 0.0021 0.0639 0.0055 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.428 0.724 0.575 0.686 0.696 0.116 0.215 0.253 2.80 0.578
Composite NOX: 0.285 0.467 0.514 0.479 1.782 0.239 0.378 3.973 1.09 0.671

* * * * *
* Rural local-Orange County-PM Peak
* File 15, Run 1, Scenario 16.
* * * * *
* Rural 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:0.3551 0.4088 0.1394 0.0260 0.0003 0.0021 0.0628 0.0055 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.423 0.719 0.571 0.681 0.684 0.114 0.210 0.244 2.77 0.572
Composite NOX: 0.287 0.470 0.518 0.482 1.808 0.245 0.387 4.069 1.10 0.676

* * * * *
* Urban interstate-Orange County-PM Peak
* File 15, Run 1, Scenario 17.
* * * * *
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 61.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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)

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.490	0.793	0.633	0.752	0.855	0.147	0.276	0.365	3.16	0.655
Composite NOX:	0.300	0.476	0.526	0.488	1.586	0.235	0.371	3.902	0.99	0.560

* * * * *

* Urban local-Orange County-PM Peak

* File 15, Run 1, Scenario 22.

* * * * *

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.503	0.809	0.646	0.768	0.892	0.153	0.290	0.390	3.24	0.668
Composite NOX:	0.308	0.484	0.536	0.497	1.557	0.240	0.378	3.979	0.97	0.632

* * * * *

* Rural interstate-Orange County-OP Peak

* File 15, Run 1, Scenario 23.

* * * * *

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.391	0.676	0.537	0.641	0.623	0.105	0.192	0.210	3.37	0.486
Composite NOX:	0.309	0.509	0.558	0.521	2.070	0.427	0.678	7.512	1.49	2.185

* * * * *

* Rural minor arterial-Orange County-OP Peak

* File 15, Run 1, Scenario 24.

* * * * *

* 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: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 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:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.407	0.701	0.557	0.664	0.649	0.108	0.199	0.223	2.75	0.549
Composite NOX:	0.295	0.483	0.531	0.496	1.899	0.279	0.442	4.663	1.19	0.823

* * * * *

* Rural major collector-Orange County-OP Peak

* File 15, Run 1, Scenario 25.

* * * * *

* 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: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes

Evap I/M Program: Yes

ATP Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.425	0.721	0.573	0.684	0.690	0.115	0.213	0.248	2.79	0.575
Composite NOX:	0.286	0.468	0.516	0.481	1.796	0.242	0.382	4.023	1.09	0.672

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.428	0.724	0.575	0.686	0.696	0.116	0.215	0.253	2.80	0.578
Composite NOX:	0.285	0.467	0.514	0.479	1.782	0.239	0.378	3.973	1.09	0.671

Exhaust I/M Program: Yes
Evap I/M Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.420	0.716	0.569	0.679	0.678	0.113	0.208	0.240	2.76	0.570
Composite NOX:	0.288	0.472	0.520	0.484	1.820	0.247	0.391	4.113	1.10	0.680

```

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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.390	0.675	0.536	0.640	0.623	0.105	0.192	0.210	3.43	0.517
Composite NOX:	0.310	0.511	0.560	0.523	2.082	0.442	0.702	7.767	1.52	1.472

```

M581 Warning:
    The user supplied freeway average speed of 29.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

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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)							
VTM Distribution:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.476	0.776	0.619	0.736	0.824	0.141	0.265	0.344	3.09	0.630
Composite NOX:	0.284	0.457	0.506	0.469	1.611	0.231	0.365	4.147	1.01	0.729

* #
* Urban principle arterial-Orange County-OP Peak
* File 15, Run 1, Scenario 30.
* #
* Urban principle 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.443	0.738	0.587	0.700	0.733	0.123	0.230	0.279	2.88	0.595
Composite NOX:	0.281	0.459	0.507	0.471	1.716	0.230	0.363	3.814	1.06	0.630

* #
* Urban minor arterial-Orange County-OP Peak
* File 15, Run 1, Scenario 31.
* #
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.454	0.750	0.596	0.711	0.762	0.129	0.241	0.300	2.94	0.612
Composite NOX:	0.282	0.457	0.506	0.470	1.677	0.228	0.360	3.782	1.05	0.562

* #

* Urban collector-Orange County-OP Peak

* File 15, Run 1, Scenario 32.

* #

* Urban collector 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.484	0.786	0.627	0.745	0.838	0.144	0.270	0.354	3.13	0.648
Composite NOX:	0.297	0.472	0.522	0.484	1.599	0.233	0.368	3.868	1.00	0.555

* #

* Urban local-Orange County-OP Peak

* File 15, Run 1, Scenario 33.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.503	0.809	0.646	0.768	0.892	0.153	0.290	0.390	3.24	0.668
Composite NOX:	0.308	0.484	0.536	0.497	1.557	0.240	0.378	3.979	0.97	0.632

* #

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.478	0.800	0.646	0.761	0.653	0.109	0.200	0.225	2.75	0.625
Composite NOX:	0.368	0.594	0.629	0.603	1.885	0.272	0.429	4.526	1.16	0.893

* #

* Rural major collector-Orange County-AM Peak

* File 16, Run 1, Scenario 3.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.498	0.823	0.666	0.783	0.690	0.115	0.213	0.248	2.79	0.655
Composite NOX:	0.361	0.580	0.616	0.589	1.796	0.242	0.382	4.023	1.09	0.758

* #

* Rural minor collector-Orange County-AM Peak

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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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* #####
* Rural local-Orange County-AM Peak
* File 16, Run 1, Scenario 5.
* #####
* Rural local mix and speeds
M615 Comment:
      User supplied VMT mix.
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Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

* Urban interstate-Orange County-AM Peak
 * File 16, Run 1, Scenario 6.
 * #
 * Urban 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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.461	0.775	0.626	0.738	0.630	0.105	0.193	0.212	2.96	0.586
Composite NOX:	0.378	0.611	0.646	0.620	1.992	0.342	0.542	6.050	1.35	1.315

* #
 * Urban freeway-Orange County-AM Peak
 * File 16, Run 1, Scenario 7.
 * #
 * Urban freeway mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.585	0.924	0.751	0.880	0.892	0.153	0.290	0.390	3.24	0.752
Composite NOX:	0.363	0.568	0.605	0.577	1.557	0.240	0.378	4.289	0.97	0.823

Composite NOX: 0.368 0.594 0.629 0.603 1.885 0.272 0.429 4.526 1.16 0.893

* * * * *

* Rural major collector-Orange County-PM Peak

* File 16, Run 1, Scenario 14.

* * * * *

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000
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Composite Emission Factors (g/mi):
Composite VOC: 0.498 0.823 0.666 0.783 0.690 0.115 0.213 0.248 2.79 0.655
Composite NOX: 0.361 0.580 0.616 0.589 1.796 0.242 0.382 4.023 1.09 0.758

* * * * *

* Rural minor collector-Orange County-PM Peak

* File 16, Run 1, Scenario 15.

* * * * *

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.501	0.826	0.669	0.786	0.696	0.116	0.215	0.253	2.80	0.658
Composite NOX:	0.360	0.578	0.614	0.587	1.782	0.239	0.378	3.973	1.09	0.757

* * * * *

* Rural local-Orange County-PM Peak

* File 16, Run 1, Scenario 16.

* * * * *

* Rural 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.495	0.820	0.663	0.780	0.684	0.114	0.210	0.244	2.77	0.652
Composite NOX:	0.362	0.582	0.617	0.591	1.808	0.245	0.387	4.069	1.10	0.762

* * * * *

* Urban interstate-Orange County-PM Peak

* File 16, Run 1, Scenario 17.

* * * * *

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 61.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000
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Composite Emission Factors (g/mi):
 Composite VOC: 0.456 0.768 0.620 0.730 0.626 0.105 0.192 0.210 3.16 0.581
 Composite NOX: 0.381 0.617 0.652 0.626 2.031 0.380 0.602 6.695 1.42 1.405

* * * * *
 * Urban freeway-Orange County-PM Peak
 * File 16, Run 1, Scenario 18.
 * * * * *
 * Urban freeway mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 29.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.560 0.893 0.726 0.851 0.824 0.141 0.265 0.344 3.09 0.720
 Composite NOX: 0.361 0.569 0.605 0.578 1.611 0.231 0.365 4.147 1.01 0.814

* * * * *
 * Urban principle arterial-Orange County-PM Peak
 * File 16, Run 1, Scenario 19.
 * * * * *
 * Urban principle arterial 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000

VTM Distribution:0.3702 0.4258 0.1451 0.0148 0.0003 0.0022 0.0359 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.575 0.913 0.743 0.869 0.855 0.147 0.276 0.365 3.16 0.754
Composite NOX: 0.379 0.590 0.628 0.600 1.586 0.235 0.371 3.902 0.99 0.653

* * * * *
* Urban local-Orange County-PM Peak
* File 16, Run 1, Scenario 22.
* * * * *
* Urban local mix and speeds
M615 Comment:

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:0.3615 0.4160 0.1419 0.0212 0.0003 0.0021 0.0514 0.0056 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.591 0.932 0.759 0.888 0.892 0.153 0.290 0.390 3.24 0.767
Composite NOX: 0.388 0.601 0.640 0.611 1.557 0.240 0.378 3.979 0.97 0.725

* * * * *
* Rural interstate-Orange County-OP Peak
* File 16, Run 1, Scenario 23.
* * * * *
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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)

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 VOC:	0.492	0.817	0.660	0.777	0.678	0.113	0.208	0.240	2.76	0.649
Composite NOX:	0.363	0.584	0.619	0.593	1.820	0.247	0.391	4.113	1.10	0.766

```
* #####
* Urban interstate-Orange County-OP Peak
* File 16, Run 1, Scenario 28.
* #####
* Urban interstate mix and speeds
M615 Comment:
```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 VOC:	0.450	0.759	0.613	0.722	0.623	0.105	0.192	0.210	3.43	0.577
Composite NOX:	0.386	0.626	0.661	0.635	2.082	0.442	0.702	7.767	1.52	1.551

```
* #####
* Urban freeway-Orange County-OP Peak
* File 16, Run 1, Scenario 29.
* #####
* Urban freeway mix and speeds
M615 Comment:
```

M581 Warning:
The user supplied freeway average speed of 29.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.560	0.893	0.726	0.851	0.824	0.141	0.265	0.344	3.09	0.720
Composite NOX:	0.361	0.569	0.605	0.578	1.611	0.231	0.365	4.147	1.01	0.814

* * * * *

* Urban principle arterial-Orange County-OP Peak

* File 16, Run 1, Scenario 30.

* * * * *

* Urban principle 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.519	0.845	0.684	0.804	0.733	0.123	0.230	0.279	2.88	0.680
Composite NOX:	0.357	0.570	0.606	0.579	1.716	0.230	0.363	3.814	1.06	0.717

* * * * *

* Urban minor arterial-Orange County-OP Peak

* File 16, Run 1, Scenario 31.

* * * * *

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.532	0.859	0.697	0.818	0.762	0.129	0.241	0.300	2.94	0.701
Composite NOX:	0.357	0.569	0.605	0.578	1.677	0.228	0.360	3.782	1.05	0.651

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.568	0.904	0.735	0.861	0.838	0.144	0.270	0.354	3.13	0.745
Composite NOX:	0.375	0.586	0.623	0.595	1.599	0.233	0.368	3.868	1.00	0.648

Exhaust I/M Program: No
Evap I/M Program: No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
MT Distribution:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.591	0.932	0.759	0.888	0.892	0.153	0.290	0.390	3.24	0.767
Composite NOX:	0.388	0.601	0.640	0.611	1.557	0.240	0.378	3.979	0.97	0.725

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.

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.452	0.761	0.614	0.724	0.623	0.105	0.192	0.210	3.37	0.537
Composite NOX:	0.385	0.624	0.659	0.633	2.070	0.427	0.678	7.512	1.49	2.250

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.

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	49.0 (F)
Minimum Rel. Hum.:	89.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

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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:	0.3332	0.3837	0.1308		0.0424	0.0003	0.0020	0.1025	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.489	0.813	0.657	0.773	0.672	0.112	0.206	0.237	2.76	0.628
Composite NOX:	0.364	0.586	0.621	0.595	1.834	0.253	0.399	4.516	1.11	0.975

* #
 * Rural minor arterial-Granville County-Rural
 * File 16, Run 1, Scenario 36.
 * #
 * 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.495	0.820	0.663	0.780	0.683	0.114	0.210	0.244	2.77	0.643
Composite NOX:	0.362	0.582	0.617	0.591	1.807	0.245	0.387	4.069	1.10	0.844

* #
 * Rural major collector-Granville County-Rural
 * File 16, Run 1, Scenario 37.
 * #
 * 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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.505	0.830	0.672	0.790	0.702	0.117	0.218	0.257	2.81	0.662
Composite NOX:	0.359	0.576	0.612	0.585	1.769	0.236	0.373	3.924	1.08	0.748

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.501	0.826	0.669	0.786	0.696	0.116	0.215	0.253	2.80	0.658
Composite NOX:	0.360	0.578	0.614	0.587	1.782	0.239	0.378	3.973	1.09	0.757

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.501	0.826	0.669	0.786	0.696	0.116	0.215	0.253	2.80	0.659
Composite NOX:	0.360	0.578	0.614	0.587	1.783	0.239	0.378	3.974	1.09	0.753

```

M581 Warning:
    User supplied vmtmix:
    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

```

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:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.455	0.766	0.618	0.728	0.625	0.105	0.192	0.210	3.23	0.580
Composite NOX:	0.382	0.619	0.655	0.628	2.044	0.396	0.628	6.976	1.45	1.443

```

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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

Fuel Sulfur Content: 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.562	0.896	0.728	0.853	0.824	0.141	0.265	0.343	3.09	0.729
Composite NOX:	0.371	0.581	0.619	0.591	1.611	0.231	0.365	3.835	1.01	0.727

* #

* Urban minor arterial-Granville County-Rural

* File 16, Run 1, Scenario 42.

* #

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.549	0.880	0.715	0.838	0.797	0.136	0.254	0.325	3.03	0.721
Composite NOX:	0.365	0.575	0.612	0.585	1.638	0.229	0.362	3.803	1.02	0.657

* #

* Urban collector-Granville County-Rural

* File 16, Run 1, Scenario 43.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local-Granville County-Rural
* File 16, Run 1, Scenario 44.
* # # # # # # # # # # # # # # # # # # # # # # # #
* 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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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```

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:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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-Orange County-AM Peak
* File 17, Run 1, Scenario 3.
* #####
* 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
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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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VTM Distribution:0.3258 0.4305 0.1467 0.0260 0.0003 0.0022 0.0631 0.0054 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.308 0.548 0.424 0.516 0.520 0.073 0.148 0.214 2.74 0.441
Composite NOX: 0.193 0.348 0.361 0.351 0.988 0.121 0.232 2.361 1.09 0.447

* * * * *
* Rural minor collector-Orange County-AM Peak
* File 17, Run 1, Scenario 4.
* * * * *
* Rural minor 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.308	0.548	0.424	0.516	0.520	0.073	0.148	0.214	2.74	0.440
Composite NOX:	0.193	0.348	0.361	0.351	0.987	0.121	0.232	2.360	1.09	0.448

* * * * *
* Rural local-Orange County-AM Peak
* File 17, Run 1, Scenario 5.
* * * * *
* 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.545	0.421	0.513	0.511	0.071	0.145	0.207	2.72	0.437
Composite NOX:	0.195	0.350	0.363	0.354	1.001	0.124	0.237	2.413	1.10	0.451

* * * * *

* Urban interstate-Orange County-AM Peak

* File 17, Run 1, Scenario 6.

* * * * *

* 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.288	0.525	0.406	0.495	0.474	0.066	0.134	0.182	2.98	0.404
Composite NOX:	0.205	0.370	0.384	0.374	1.102	0.177	0.339	3.627	1.38	0.785

* * * * *

* Urban freeway-Orange County-AM Peak

* File 17, Run 1, Scenario 7.

* * * * *

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 21.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

Fuel Sulfur Content: 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:	0.3186	0.4210	0.1434		0.0320	0.0003	0.0021	0.0773	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.383	0.626	0.488	0.591	0.741	0.108	0.222	0.384	3.38	0.527
Composite NOX:	0.194	0.336	0.349	0.340	0.829	0.127	0.243	2.647	0.92	0.490

* #
* Urban principle arterial-Orange County-AM Peak
* File 17, Run 1, Scenario 8.
* #
* Urban principle 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.333	0.570	0.443	0.538	0.584	0.083	0.170	0.265	2.93	0.468
Composite NOX:	0.192	0.341	0.354	0.344	0.915	0.114	0.219	2.221	1.04	0.420

* #
* Urban minor arterial-Orange County-AM Peak
* File 17, Run 1, Scenario 9.
* #
* 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.333	0.570	0.443	0.538	0.584	0.083	0.170	0.265	2.93	0.471
Composite NOX:	0.192	0.341	0.354	0.344	0.916	0.114	0.219	2.227	1.04	0.384

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.

```
there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.348	0.587	0.457	0.554	0.622	0.089	0.184	0.296	3.05	0.489
Composite NOX:	0.199	0.347	0.361	0.351	0.886	0.116	0.221	2.250	1.01	0.379

The user supplied arterial average speed of 25.0 will be used for all hours of 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 LDPT12

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.367	0.609	0.476	0.575	0.672	0.098	0.201	0.335	3.20	0.509
Composite NOX:	0.209	0.359	0.374	0.363	0.856	0.120	0.229	2.335	0.97	0.426

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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)							
VTMT Distribution:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.286	0.522	0.404	0.492	0.472	0.066	0.134	0.181	3.19	0.380
Composite NOX:	0.207	0.375	0.389	0.378	1.124	0.199	0.381	4.060	1.45	1.238

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Appendix C.3
June 7, 2007

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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.296	0.536	0.415	0.506	0.492	0.068	0.139	0.193	2.70	0.424
Composite NOX:	0.198	0.357	0.370	0.361	1.037	0.136	0.260	2.654	1.16	0.526

* * * * *
 * Rural major collector-Orange County-PM Peak
 * File 17, Run 1, Scenario 14.
 * * * * *
 * Rural major collector 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.306	0.546	0.422	0.515	0.516	0.072	0.146	0.210	2.73	0.439
Composite NOX:	0.194	0.349	0.362	0.352	0.994	0.123	0.235	2.388	1.10	0.449

* * * * *
 * Rural minor collector-Orange County-PM Peak
 * File 17, Run 1, Scenario 15.
 * * * * *
 * Rural minor collector mix and speeds
 M615 Comment:
 User supplied VMT mix.

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Appendix C.3
June 7, 2007

Composite NOX: 0.194 0.336 0.349 0.340 0.829 0.127 0.243 2.647 0.92 0.490

* * * * *

* Urban principle arterial-Orange County-PM Peak

* File 17, Run 1, Scenario 19.

* * * * *

* 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

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):										
Composite VOC:	0.329	0.567	0.440	0.534	0.576	0.082	0.167	0.258	2.90	0.464
Composite NOX:	0.190	0.339	0.352	0.343	0.922	0.114	0.218	2.217	1.05	0.419

* * * * *

* Urban minor arterial-Orange County-PM Peak

* File 17, Run 1, Scenario 20.

* * * * *

* 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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)							

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.367	0.609	0.476	0.575	0.672	0.098	0.201	0.335	3.20	0.509
Composite NOX:	0.209	0.359	0.374	0.363	0.856	0.120	0.229	2.335	0.97	0.426

```

M581 Warning:      User supplied vmtmix:
                   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
M 48 Warning:      there are no sales for vehicle class LDDT12

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.285	0.521	0.403	0.491	0.470	0.066	0.134	0.181	3.32	0.380
Composite NOx:	0.209	0.377	0.392	0.381	1.138	0.214	0.411	4.370	1.49	1.311

```

M 415 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi

```


Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.295	0.535	0.414	0.504	0.490	0.068	0.138	0.192	2.70	0.422
Composite NOX:	0.199	0.359	0.372	0.362	1.045	0.140	0.268	2.733	1.19	0.534

* * * * *
* Rural major collector-Orange County-OP Peak
* File 17, Run 1, Scenario 25.
* * * * *
* Rural major collector 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.306	0.546	0.422	0.515	0.516	0.072	0.146	0.210	2.73	0.439
Composite NOX:	0.194	0.349	0.362	0.352	0.994	0.123	0.235	2.388	1.10	0.449

* * * * *
* Rural minor collector-Orange County-OP Peak
* File 17, Run 1, Scenario 26.
* * * * *
* Rural minor 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: 73.0 (F)

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural local-Orange County-OP Peak
* File 17, Run 1, Scenario 27.
* #####
* 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

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Urban interstate-Orange County-OP Peak
* File 17, Run 1, Scenario 28.
* #####
* Urban 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
M 48 Warning:
    there are no sales for vehicle class LDDT12

```


type for all hours of the day and all vehicle types.
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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.324	0.561	0.435	0.529	0.561	0.079	0.162	0.246	2.86	0.458
Composite NOX:	0.189	0.339	0.352	0.343	0.936	0.115	0.219	2.226	1.06	0.419

* * * * *
* Urban minor arterial-Orange County-OP Peak
* File 17, Run 1, Scenario 31.
* * * * *
* Urban minor arterial 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.326	0.563	0.437	0.531	0.568	0.080	0.165	0.252	2.88	0.463
Composite NOX:	0.189	0.338	0.351	0.341	0.929	0.114	0.218	2.219	1.05	0.382

* * * * *
* Urban collector-Orange County-OP Peak
* File 17, Run 1, Scenario 32.
* * * * *
* Urban collector mix and speeds
M615 Comment:

```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.340	0.578	0.449	0.545	0.602	0.086	0.177	0.279	2.99	0.480
Composite NOx:	0.195	0.343	0.357	0.347	0.900	0.115	0.219	2.228	1.02	0.374

```
* #####
* Urban local-Orange County-OP Peak
* File 17, Run 1, Scenario 33.
* #####
* Urban local mix and speeds
```

```

M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 25.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.367	0.609	0.476	0.575	0.672	0.098	0.201	0.335	3.20	0.509
Composite NOX:	0.209	0.359	0.374	0.363	0.856	0.120	0.229	2.335	0.97	0.429

M615 Comment:

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 LDDT12
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:0.3161 0.4173 0.1422 0.0341 0.0003 0.0021 0.0827 0.0052 1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.369	0.645	0.506	0.610	0.492	0.068	0.139	0.193	2.70	0.505
Composite NOX:	0.279	0.484	0.478	0.483	1.037	0.136	0.260	2.654	1.16	0.620

M615 Comment:

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 LDPT12
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:0.3258 0.4305 0.1467 0.0260 0.0003 0.0022 0.0631 0.0054 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.385	0.662	0.520	0.626	0.520	0.073	0.148	0.214	2.74	0.529
Composite NOX:	0.274	0.474	0.468	0.472	0.988	0.121	0.232	2.361	1.09	0.543

* * * * *

* Rural minor collector-Orange County-AM Peak

* File 18, Run 1, Scenario 4.

* * * * *

* Rural minor 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: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.385	0.662	0.520	0.626	0.520	0.073	0.148	0.214	2.74	0.529
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX:	0.274	0.474	0.468	0.472	0.987	0.121	0.232	2.360	1.09	0.545
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural local-Orange County-AM Peak

* File 18, Run 1, Scenario 5.

* * * * *

* 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: 2014

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 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
---------------	------	--------	--------	------	------	------	------	------	----	---------

Mobile Source Inventory

Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone

Redesignation Demonstration and Maintenance Plan

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Appendix C.3

June 7, 2007

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:	0.3186	0.4210	0.1434		0.0320	0.0003	0.0021	0.0773	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.480	0.769	0.611	0.729	0.741	0.108	0.222	0.384	3.38	0.636
Composite NOX:	0.278	0.463	0.457	0.461	0.829	0.127	0.243	2.647	0.92	0.586

* * * * *
 * Urban principle arterial-Orange County-AM Peak
 * File 18, Run 1, Scenario 8.
 * * * * *
 * Urban principle 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: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.416	0.695	0.548	0.657	0.584	0.083	0.170	0.265	2.93	0.565
Composite NOX:	0.274	0.466	0.461	0.465	0.915	0.114	0.219	2.221	1.04	0.517

* * * * *
 * Urban minor arterial-Orange County-AM Peak
 * File 18, Run 1, Scenario 9.
 * * * * *
 * 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: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)

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:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.416	0.695	0.548	0.657	0.584	0.083	0.170	0.265	2.93	0.570
Composite NOX:	0.274	0.466	0.461	0.465	0.916	0.114	0.219	2.227	1.04	0.484

```
* #####
* Urban collector-Orange County-AM Peak
* File 18, Run 1, Scenario 10.
* #####
* Urban collector 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.436	0.718	0.568	0.680	0.622	0.089	0.184	0.296	3.05	0.594
Composite NOX:	0.282	0.475	0.470	0.474	0.886	0.116	0.221	2.250	1.01	0.481

```

* #####
* Urban local-Orange County-AM Peak
* File 18, Run 1, Scenario 11.
* #####
* Urban local mix and speeds
M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 25.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
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

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural interstate-Orange County-PM Peak
* File 18, Run 1, Scenario 12.
* #####
* 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

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor arterial-Orange County-PM Peak
* File 18, Run 1, Scenario 13.
* #####
* 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:
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.369	0.645	0.506	0.610	0.492	0.068	0.139	0.193	2.70	0.505
Composite NOx:	0.279	0.484	0.478	0.483	1.037	0.136	0.260	2.654	1.16	0.624

```
* #####
* Rural major collector-Orange County-PM Peak
* File 18, Run 1, Scenario 14.
* #####
* Rural major collector mix and speeds
* M615 Comment:
```

```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.382	0.660	0.518	0.624	0.516	0.072	0.146	0.210	2.73	0.526
Composite NOX:	0.275	0.475	0.469	0.473	0.994	0.123	0.235	2.388	1.10	0.544

```
* #####
* Rural minor collector-Orange County-PM Peak
* File 18, Run 1, Scenario 15.
* #####
* Rural minor collector mix and speeds
* M615 Comment:
```

```

Main minor corridor 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.385	0.662	0.520	0.626	0.520	0.073	0.148	0.214	2.74	0.529
Composite NOX:	0.274	0.474	0.468	0.472	0.987	0.121	0.232	2.360	1.09	0.545

* #
* Rural local-Orange County-PM Peak
* File 18, Run 1, Scenario 16.
* #
* 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.380	0.658	0.516	0.622	0.511	0.071	0.145	0.207	2.72	0.524
Composite NOX:	0.276	0.476	0.471	0.475	1.001	0.124	0.237	2.413	1.10	0.548

* #
* Urban interstate-Orange County-PM Peak
* File 18, Run 1, Scenario 17.
* #
* 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

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.354	0.624	0.489	0.590	0.473	0.066	0.134	0.181	3.04	0.473
Composite NOX:	0.287	0.501	0.495	0.499	1.109	0.182	0.349	3.728	1.40	0.888

* * * * *
 * Urban freeway-Orange County-PM Peak
 * File 18, Run 1, Scenario 18.
 * * * * *
 * Urban freeway mix and speeds
 M615 Comment:
 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 21.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3186	0.4210	0.1434		0.0320	0.0003	0.0021	0.0773	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.480	0.769	0.611	0.729	0.741	0.108	0.222	0.384	3.38	0.636
Composite NOX:	0.278	0.463	0.457	0.461	0.829	0.127	0.243	2.647	0.92	0.586

Composite Emission Factors (g/mi):
 Composite VOC: 0.416 0.695 0.548 0.657 0.584 0.083 0.170 0.265 2.93 0.570
 Composite NOX: 0.274 0.466 0.461 0.465 0.916 0.114 0.219 2.227 1.04 0.484

* * * * *
 * Urban collector-Orange County-PM Peak
 * File 18, Run 1, Scenario 21.
 * * * * *
 * Urban collector 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: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.431 0.712 0.563 0.674 0.612 0.088 0.180 0.287 3.02 0.588
 Composite NOX: 0.279 0.472 0.467 0.470 0.892 0.115 0.220 2.233 1.02 0.477

* * * * *
 * Urban local-Orange County-PM Peak
 * File 18, Run 1, Scenario 22.
 * * * * *
 * Urban local mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.459	0.746	0.592	0.707	0.672	0.098	0.201	0.335	3.20	0.617
Composite NOX:	0.295	0.490	0.486	0.489	0.856	0.120	0.229	2.335	0.97	0.529

* * * * *

* Rural interstate-Orange County-OP Peak

* File 18, Run 1, Scenario 23.

* * * * *

* 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

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.350	0.618	0.483	0.584	0.470	0.066	0.134	0.181	3.32	0.436
Composite NOX:	0.291	0.507	0.502	0.506	1.138	0.214	0.411	4.370	1.49	1.385

* * * * *

* Rural minor arterial-Orange County-OP Peak

* File 18, Run 1, Scenario 24.

* * * * *

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.367	0.643	0.504	0.607	0.490	0.068	0.138	0.192	2.70	0.503
Composite NOX:	0.280	0.486	0.480	0.484	1.045	0.140	0.268	2.733	1.19	0.628

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:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.382	0.660	0.518	0.624	0.516	0.072	0.146	0.210	2.73	0.526
Composite NOX:	0.275	0.475	0.469	0.473	0.994	0.123	0.235	2.388	1.10	0.544

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.385	0.662	0.520	0.626	0.520	0.073	0.148	0.214	2.74	0.529
Composite NOX:	0.274	0.474	0.468	0.472	0.987	0.121	0.232	2.360	1.09	0.544

```

# # # # #
* Rural local-Orange County-OP Peak
* File 18, Run 1, Scenario 27.
# # # # #
* 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:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.380	0.658	0.516	0.622	0.511	0.071	0.145	0.207	2.72	0.524
Composite NOX:	0.276	0.476	0.471	0.475	1.001	0.124	0.237	2.413	1.10	0.548

```

* #####
* Urban interstate-Orange County-OP Peak
* File 18, Run 1, Scenario 28.
* #####
* Urban 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
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

Calendar Year: 2014
Month: July

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban freeway-Orange County-OP Peak
* File 18, Run 1, Scenario 29.
* #####
* Urban freeway mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 28.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban principle arterial-Orange County-OP Peak
* File 18, Run 1, Scenario 30.
* #####
* Urban principle arterial 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.405	0.682	0.536	0.645	0.561	0.079	0.162	0.246	2.86	0.552
Composite NOX:	0.271	0.465	0.459	0.463	0.936	0.115	0.219	2.226	1.06	0.516

* * * * *
 * Urban minor arterial-Orange County-OP Peak
 * File 18, Run 1, Scenario 31.
 * * * * *
 * Urban minor arterial 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.408	0.685	0.539	0.648	0.568	0.080	0.165	0.252	2.88	0.561
Composite NOX:	0.270	0.464	0.458	0.462	0.929	0.114	0.218	2.219	1.05	0.481

* * * * *
 * Urban collector-Orange County-OP Peak
 * File 18, Run 1, Scenario 32.
 * * * * *
 * Urban collector mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 31.0


```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Urban interstate-Granville County-Rural  
* File 18, Run 1, Scenario 40.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Urban 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.  
        has been assigned to the freeway roadwa  
        all hours of the day and all vehicle ty  
M 48 Warning:  
        there are no sales for vehicle class  
M 48 Warning:  
        there are no sales for vehicle class
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.352	0.621	0.486	0.587	0.472	0.066	0.134	0.181	3.19	0.471
Composite NOX:	0.289	0.504	0.499	0.503	1.124	0.199	0.381	4.059	1.45	0.934

```

* #####
* Urban principle arterial-Granville County-Rural
* File 18, Run 1, Scenario 41.
* #####
* 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.436	0.718	0.568	0.680	0.622	0.089	0.184	0.295	3.05	0.587
Composite NOX:	0.282	0.475	0.470	0.474	0.886	0.116	0.221	2.251	1.01	0.526

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.

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.426	0.706	0.557	0.668	0.602	0.086	0.177	0.280	2.99	0.581
Composite NOX:	0.277	0.470	0.465	0.468	0.901	0.115	0.219	2.235	1.02	0.487

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.

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

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:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.426	0.706	0.557	0.668	0.602	0.086	0.177	0.279	2.99	0.582
Composite NOX:	0.277	0.470	0.465	0.468	0.900	0.115	0.219	2.228	1.02	0.476

```
* #####
* Urban local-Granville County-Rural
* File 18, Run 1, Scenario 44.
* #####
* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.426	0.706	0.557	0.668	0.601	0.086	0.177	0.279	2.99	0.578
Composite NOx:	0.277	0.470	0.465	0.468	0.901	0.115	0.219	2.231	1.02	0.507

VTM Distribution:0.3052 0.4459 0.1520 0.0259 0.0003 0.0023 0.0631 0.0053 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.246 0.433 0.350 0.412 0.424 0.054 0.124 0.196 2.68 0.359
Composite NOX: 0.138 0.262 0.281 0.267 0.648 0.066 0.178 1.408 1.09 0.314

* * * * *
* Rural minor collector-Orange County-AM Peak
* File 19, Run 1, Scenario 4.
* * * * *
* Rural minor 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:0.3048 0.4452 0.1517 0.0264 0.0003 0.0023 0.0640 0.0053 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.246 0.433 0.350 0.412 0.424 0.054 0.124 0.196 2.68 0.359
Composite NOX: 0.138 0.262 0.281 0.267 0.648 0.066 0.178 1.407 1.09 0.315

* * * * *
* Rural local-Orange County-AM Peak
* File 19, Run 1, Scenario 5.
* * * * *
* 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: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.242	0.431	0.347	0.410	0.416	0.053	0.122	0.190	2.66	0.356
Composite NOx:	0.138	0.264	0.283	0.269	0.656	0.067	0.181	1.437	1.10	0.317

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:	0.2742	0.4007	0.1367		0.0529	0.0002	0.0020	0.1285	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.229	0.417	0.335	0.396	0.385	0.049	0.113	0.167	2.92	0.332
Composite NOX:	0.145	0.280	0.300	0.285	0.723	0.095	0.259	2.174	1.38	0.518

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi

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:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.312	0.495	0.404	0.472	0.609	0.081	0.186	0.353	3.32	0.433
Composite NOX:	0.139	0.254	0.272	0.258	0.544	0.069	0.186	1.590	0.92	0.338

```

* #####
* Urban principle arterial-Orange County-AM Peak
* File 19, Run 1, Scenario 8.
* #####
* Urban principle 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:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.268	0.451	0.365	0.429	0.478	0.062	0.143	0.243	2.86	0.382
Composite NOX:	0.137	0.257	0.275	0.262	0.600	0.062	0.167	1.325	1.04	0.297

```
* #####
* Urban minor arterial-Orange County-AM Peak
* File 19, Run 1, Scenario 9.
* #####
* 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: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

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:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.268	0.451	0.365	0.429	0.478	0.062	0.143	0.243	2.86	0.384
Composite NOX:	0.137	0.257	0.275	0.262	0.601	0.062	0.167	1.326	1.04	0.276

* #

* Urban collector-Orange County-AM Peak

* File 19, Run 1, Scenario 10.

* #

* Urban collector 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	3.0 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:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.281	0.464	0.378	0.442	0.510	0.067	0.154	0.271	2.99	0.399
Composite NOX:	0.142	0.262	0.281	0.267	0.581	0.063	0.170	1.340	1.01	0.274

* #

* Urban local-Orange County-AM Peak

* File 19, Run 1, Scenario 11.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M 48 Warning:

```
there are no sales for vehicle class HDGV8b
```

M 48 Warning:

there are no sales for vehicle class LDPT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.298	0.482	0.394	0.459	0.552	0.073	0.168	0.308	3.14	0.417
Composite NOX:	0.150	0.271	0.292	0.276	0.562	0.065	0.176	1.392	0.97	0.304

* #
 * Rural interstate-Orange County-PM Peak
 * File 19, Run 1, Scenario 12.
 * #
 * 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: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.228	0.415	0.334	0.395	0.383	0.049	0.113	0.166	3.12	0.314
Composite NOX:	0.147	0.283	0.304	0.289	0.737	0.107	0.291	2.431	1.45	0.785

* #
 * Rural minor arterial-Orange County-PM Peak
 * File 19, Run 1, Scenario 13.
 * #
 * 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: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.235	0.425	0.342	0.404	0.400	0.051	0.117	0.178	2.64	0.346
Composite NOX:	0.141	0.270	0.289	0.275	0.680	0.073	0.199	1.582	1.16	0.361

* * * * *
 * Rural major collector-Orange County-PM Peak
 * File 19, Run 1, Scenario 14.
 * * * * *
 * Rural major collector 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.244	0.432	0.348	0.411	0.420	0.054	0.123	0.193	2.67	0.358
Composite NOX:	0.138	0.263	0.282	0.268	0.652	0.066	0.180	1.424	1.10	0.315

* * * * *
 * Rural minor collector-Orange County-PM Peak
 * File 19, Run 1, Scenario 15.
 * * * * *
 * Rural minor collector mix and speeds
 M615 Comment:
 User supplied VMT mix.

Composite NOX: 0.139 0.254 0.272 0.258 0.544 0.069 0.186 1.590 0.92 0.338

* * * * *
* Urban principle arterial-Orange County-PM Peak
* File 19, Run 1, Scenario 19.
* * * * *
* 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

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.265 0.448 0.363 0.426 0.471 0.061 0.140 0.237 2.84 0.379
Composite NOX: 0.136 0.256 0.274 0.261 0.605 0.062 0.167 1.322 1.05 0.296

* * * * *
* Urban minor arterial-Orange County-PM Peak
* File 19, Run 1, Scenario 20.
* * * * *
* 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: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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)							

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:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.298	0.482	0.394	0.459	0.552	0.073	0.168	0.308	3.14	0.417
Composite NOX:	0.150	0.271	0.292	0.276	0.562	0.065	0.176	1.392	0.97	0.304

* * * * *

* Rural interstate-Orange County-OP Peak

* File 19, Run 1, Scenario 23.

* * * * *

* 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

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 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:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.227	0.414	0.333	0.394	0.382	0.049	0.113	0.166	3.26	0.314
Composite NOX:	0.148	0.286	0.307	0.291	0.747	0.116	0.314	2.616	1.49	0.828

* * * * *

* Rural minor arterial-Orange County-OP Peak

* File 19, Run 1, Scenario 24.

* * * * *

* 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: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.234	0.424	0.341	0.403	0.398	0.051	0.117	0.176	2.64	0.345
Composite NOX:	0.141	0.271	0.291	0.276	0.685	0.076	0.205	1.629	1.19	0.367

* * * * *
* Rural major collector-Orange County-OP Peak
* File 19, Run 1, Scenario 25.
* * * * *
* Rural major collector 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.244	0.432	0.348	0.411	0.420	0.054	0.123	0.193	2.67	0.358
Composite NOX:	0.138	0.263	0.282	0.268	0.652	0.066	0.180	1.424	1.10	0.315

* * * * *
* Rural minor collector-Orange County-OP Peak
* File 19, Run 1, Scenario 26.
* * * * *
* Rural minor 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: 73.0 (F)

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural local-Orange County-OP Peak
* File 19, Run 1, Scenario 27.
* #####
* 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

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Urban interstate-Orange County-OP Peak
* File 19, Run 1, Scenario 28.
* #####
* Urban 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
M 48 Warning:
    there are no sales for vehicle class LDDT12

```


type for all hours of the day and all vehicle types.
M 48 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.260	0.444	0.359	0.422	0.458	0.059	0.136	0.226	2.79	0.374
Composite NOX:	0.135	0.256	0.274	0.261	0.614	0.062	0.168	1.328	1.06	0.296

* * * * *
* Urban minor arterial-Orange County-OP Peak
* File 19, Run 1, Scenario 31.
* * * * *
* Urban minor arterial 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.263	0.445	0.360	0.424	0.465	0.060	0.138	0.231	2.81	0.378
Composite NOX:	0.135	0.255	0.273	0.260	0.609	0.062	0.167	1.322	1.05	0.275

* * * * *
* Urban collector-Orange County-OP Peak
* File 19, Run 1, Scenario 32.
* * * * *
* Urban collector mix and speeds
M615 Comment:

```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.274	0.457	0.371	0.435	0.493	0.065	0.148	0.256	2.92	0.391
Composite NOX:	0.139	0.259	0.278	0.264	0.591	0.062	0.168	1.327	1.02	0.271

```
* #####
* Urban local-Orange County-OP Peak
* File 19, Run 1, Scenario 33.
* #####
* Urban local mix and speeds
M615 Comment:
```

```

M615 Comment:
    User supplied VMT mix.
M583 Warning:
    The user supplied arterial average speed of 25.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the arterial/collector roadway
    type for all hours of the day and all vehicle types.
M 48 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.298	0.482	0.394	0.459	0.552	0.073	0.168	0.308	3.14	0.417
Composite NOX:	0.150	0.271	0.292	0.276	0.562	0.065	0.176	1.392	0.97	0.304

there are no sales for vehicle class LDDT12

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

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Composite VOC:	0.323	0.553	0.447	0.526	0.424	0.054	0.124	0.196	2.68	0.451
Composite NOX:	0.220	0.394	0.391	0.393	0.648	0.066	0.178	1.408	1.09	0.414

* * * * *

* Rural minor collector-Orange County-AM Peak

* File 20, Run 1, Scenario 4.

* * * * *

* Rural minor 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: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 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:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.323	0.553	0.447	0.526	0.424	0.054	0.124	0.196	2.68	0.451
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX:	0.220	0.394	0.391	0.393	0.648	0.066	0.178	1.407	1.09	0.415
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural local-Orange County-AM Peak

* File 20, Run 1, Scenario 5.

* * * * *

* 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: 2017

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 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
---------------	------	--------	--------	------	------	------	------	------	----	---------

Mobile Source Inventory

Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone

Redesignation Demonstration and Maintenance Plan

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```
* #####
* Urban interstate-Orange County-AM Peak
* File 20, Run 1, Scenario 6.
* #####
* Urban interstate mix and speeds
M615 Comment:
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban freeway-Orange County-AM Peak
* File 20, Run 1, Scenario 7.
* #####
* Urban freeway mix and speeds
M615 Comment:
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.409	0.644	0.527	0.614	0.609	0.081	0.186	0.353	3.32	0.545
Composite NOX:	0.225	0.385	0.382	0.385	0.544	0.069	0.186	1.590	0.92	0.438

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VT Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.352	0.580	0.471	0.553	0.478	0.062	0.143	0.243	2.86	0.482
Composite NOx:	0.220	0.388	0.385	0.388	0.600	0.062	0.167	1.325	1.04	0.399

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

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)							
<hr/>										
VMT Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.352	0.580	0.471	0.553	0.478	0.062	0.143	0.243	2.86	0.487
Composite NOX:	0.220	0.388	0.385	0.388	0.601	0.062	0.167	1.326	1.04	0.381

```

* #####
* Urban collector-Orange County-AM Peak
* File 20, Run 1, Scenario 10.
* #####
* Urban collector mix and speeds
* M615 Comment:

```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.370	0.600	0.489	0.572	0.510	0.067	0.154	0.271	2.99	0.508
Composite NOX:	0.227	0.395	0.393	0.395	0.581	0.063	0.170	1.340	1.01	0.381

```
* #####  
* Urban local-Orange County-AM Peak  
* File 20, Run 1, Scenario 11.  
* #####  
* Urban local mix and speeds  
M615 Comment:
```

```

User supplied VMT mix.
M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

```

```

M 48 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

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural interstate-Orange County-PM Peak
* File 20, Run 1, Scenario 12.
* #####
* 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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor arterial-Orange County-PM Peak
* File 20, Run 1, Scenario 13.
* #####
* 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: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.309	0.539	0.434	0.512	0.400	0.051	0.117	0.178	2.64	0.430
Composite NOX:	0.224	0.403	0.400	0.402	0.680	0.073	0.199	1.582	1.16	0.460

* #
* Rural major collector-Orange County-PM Peak
* File 20, Run 1, Scenario 14.
* #
* Rural major collector 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.321	0.551	0.445	0.524	0.420	0.054	0.123	0.193	2.67	0.449
Composite NOX:	0.221	0.395	0.392	0.395	0.652	0.066	0.180	1.424	1.10	0.416

* #
* Rural minor collector-Orange County-PM Peak
* File 20, Run 1, Scenario 15.
* #
* Rural minor 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.323	0.553	0.447	0.526	0.424	0.054	0.124	0.196	2.68	0.451
Composite NOX:	0.220	0.394	0.391	0.393	0.648	0.066	0.178	1.407	1.09	0.415

* #

* Rural local-Orange County-PM Peak

* File 20, Run 1, Scenario 16.

* #

* 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: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.319	0.549	0.443	0.522	0.416	0.053	0.122	0.190	2.66	0.447
Composite NOX:	0.221	0.397	0.394	0.396	0.656	0.067	0.181	1.437	1.10	0.418

* #

* Urban interstate-Orange County-PM Peak

* File 20, Run 1, Scenario 17.

* #

* 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

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.2742	0.4007	0.1367		0.0529	0.0002	0.0020	0.1285	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.296	0.521	0.420	0.496	0.384	0.049	0.113	0.166	2.98	0.404
Composite NOX:	0.230	0.417	0.415	0.416	0.727	0.098	0.267	2.235	1.40	0.620

* * * * *

* Urban freeway-Orange County-PM Peak

* File 20, Run 1, Scenario 18.

* * * * *

* Urban freeway mix and speeds

M615 Comment:
 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 21.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M 48 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.409	0.644	0.527	0.614	0.609	0.081	0.186	0.353	3.32	0.545
Composite NOX:	0.225	0.385	0.382	0.385	0.544	0.069	0.186	1.590	0.92	0.438

```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.348	0.576	0.467	0.548	0.471	0.061	0.140	0.237	2.84	0.478
Composite NOX:	0.219	0.387	0.384	0.386	0.605	0.062	0.167	1.322	1.05	0.397

```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.352 0.580 0.471 0.553 0.478 0.062 0.143 0.243 2.86 0.487
 Composite NOX: 0.220 0.388 0.385 0.388 0.601 0.062 0.167 1.326 1.04 0.381

* * * * *
 * Urban collector-Orange County-PM Peak
 * File 20, Run 1, Scenario 21.
 * * * * *
 * Urban collector 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: 2017
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.365 0.595 0.485 0.567 0.501 0.066 0.151 0.264 2.95 0.503
 Composite NOX: 0.225 0.393 0.390 0.392 0.585 0.062 0.168 1.330 1.02 0.378

* * * * *
 * Urban local-Orange County-PM Peak
 * File 20, Run 1, Scenario 22.
 * * * * *
 * Urban local mix and speeds

M615 Comment:
 User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 25.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M 48 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 9.0 psi
 Weathered RVP: 8.6 psi
 Fuel Sulfur Content: 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:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.391	0.624	0.511	0.595	0.552	0.073	0.168	0.308	3.14	0.529
Composite NOX:	0.238	0.408	0.407	0.408	0.562	0.065	0.176	1.392	0.97	0.412

* * * * *

* Rural interstate-Orange County-OP Peak

* File 20, Run 1, Scenario 23.

* * * * *

* 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

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.2287	0.3339	0.1138		0.0927	0.0002	0.0017	0.2250	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.293	0.516	0.415	0.491	0.382	0.049	0.113	0.166	3.26	0.373
Composite NOX:	0.232	0.423	0.421	0.422	0.747	0.116	0.314	2.616	1.49	0.907

* * * * *

* Rural minor arterial-Orange County-OP Peak

* File 20, Run 1, Scenario 24.

* * * * *

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.2960	0.4322	0.1473		0.0341	0.0003	0.0022	0.0828	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.307	0.537	0.433	0.510	0.398	0.051	0.117	0.176	2.64	0.428
Composite NOX:	0.225	0.405	0.402	0.404	0.685	0.076	0.205	1.629	1.19	0.465

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:	0.3052	0.4459	0.1520		0.0259	0.0003	0.0023	0.0631	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.321	0.551	0.445	0.524	0.420	0.054	0.123	0.193	2.67	0.449
Composite NOx:	0.221	0.395	0.392	0.395	0.652	0.066	0.180	1.424	1.10	0.41

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:	0.3048	0.4452	0.1517		0.0264	0.0003	0.0023	0.0640	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.323	0.553	0.447	0.526	0.424	0.054	0.124	0.196	2.68	0.451
Composite NOX:	0.220	0.394	0.391	0.393	0.648	0.066	0.178	1.407	1.09	0.411

```

* #####
* Rural local-Orange County-OP Peak
* File 20, Run 1, Scenario 27.
* #####
* 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:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3055	0.4460	0.1520		0.0258	0.0003	0.0023	0.0628	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.319	0.549	0.443	0.522	0.416	0.053	0.122	0.190	2.66	0.447
Composite NOX:	0.221	0.397	0.394	0.396	0.656	0.067	0.181	1.437	1.10	0.418

```

* #####
* Urban interstate-Orange County-OP Peak
* File 20, Run 1, Scenario 28.
* #####
* Urban 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
M 48 Warning:
  there are no sales for vehicle class LDDT12

```

Calendar Year: 2017
Month: July

Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.2742	0.4007	0.1367		0.0529	0.0002	0.0020	0.1285	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.293	0.516	0.415	0.491	0.382	0.049	0.113	0.166	3.26	0.401
Composite NOX:	0.232	0.423	0.421	0.422	0.747	0.116	0.314	2.617	1.49	0.674

* * * * *

* Urban freeway-Orange County-OP Peak

* File 20, Run 1, Scenario 29.

* * * * *

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 28.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

M 48 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.2984	0.4360	0.1486		0.0319	0.0003	0.0022	0.0774	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.372	0.602	0.491	0.574	0.519	0.068	0.157	0.280	3.02	0.501
Composite NOX:	0.222	0.387	0.384	0.386	0.577	0.063	0.171	1.466	1.00	0.430

* * * * *

* Urban principle arterial-Orange County-OP Peak

* File 20, Run 1, Scenario 30.

* * * * *

* Urban principle arterial 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 LDPT12
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.342	0.569	0.461	0.542	0.458	0.059	0.136	0.226	2.79	0.471
Composite NOX:	0.218	0.387	0.384	0.386	0.614	0.062	0.168	1.328	1.06	0.397

```
* #####
* Urban minor arterial-Orange County-OP Peak
* File 20, Run 1, Scenario 31.
* #####
* Urban minor arterial 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.345	0.572	0.464	0.545	0.465	0.060	0.138	0.231	2.81	0.479
Composite NOX:	0.218	0.386	0.383	0.385	0.609	0.062	0.167	1.322	1.05	0.378

```
* #####
* Urban collector-Orange County-OP Peak
* File 20, Run 1, Scenario 32.
* #####
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.361	0.590	0.480	0.562	0.493	0.065	0.148	0.256	2.92	0.498
Composite NOX:	0.223	0.391	0.388	0.390	0.591	0.062	0.168	1.327	1.02	0.377

* #

* Urban local-Orange County-OP Peak

* File 20, Run 1, Scenario 33.

* #

* Urban local mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M 48 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.391	0.624	0.511	0.595	0.552	0.073	0.168	0.308	3.14	0.529
Composite NOX:	0.238	0.408	0.407	0.408	0.562	0.065	0.176	1.392	0.97	0.412

* #

* Rural interstate-Granville County-Rural

* File 20, Run 1, Scenario 34.

* #

M615 Comment:

M583 Warning:

M 48 Warning:

M 48 Warning:

Calendar Year: 2017

Month: July

Altitude:

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

VMT Distribution:0.2960 0.4322 0.1473 0.0341 0.0003 0.0022 0.0828 0.0051 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.321	0.551	0.445	0.524	0.420	0.054	0.123	0.193	2.67	0.443
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX:	0.221	0.395	0.392	0.395	0.652	0.066	0.180	1.424	1.10	0.440
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* Rural major collector-Granville County-Rural

* File 20, Run 1, Scenario 37.

* Rural major collector mix and speeds

M615 Comment:

User supplied VMT mix.

M 48 Warning:

t

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r Year: 2017

Month:

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 9.0 psi

Weathered RVP: 8.6 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

VMT Distribution:0.3052 0.4459 0.1520 0.0259 0.0003 0.0023 0.0631 0.0053 1.0000


```
* #####  
* Urban interstate-Granville County-Rural  
* File 20, Run 1, Scenario 40.  
* #####  
* Urban 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.  
    has been assigned to the freeway roadwa  
    all hours of the day and all vehicle ty  
M 48 Warning:  
    there are no sales for vehicle class  
M 48 Warning:  
    there are no sales for vehicle class
```

Calendar Year:	2017
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Urban principle arterial-Granville County-Rural
* File 20, Run 1, Scenario 41.
* #####
* Urban principle arterial 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 v
M 48 Warning:
        there are no sales for vehicle class
M 48 Warning:
        there are no sales for vehicle class

```

```

Calendar Year: 2017
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3076	0.4494	0.1532		0.0239	0.0003	0.0023	0.0580	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.370	0.600	0.489	0.572	0.510	0.067	0.154	0.271	2.99	0.502
Composite NOX:	0.227	0.395	0.393	0.395	0.581	0.063	0.170	1.342	1.01	0.405

* * * * *
* Urban minor arterial-Granville County-Rural
* File 20, Run 1, Scenario 42.
* * * * *
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 9.0 psi
Weathered RVP: 8.6 psi
Fuel Sulfur Content: 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:	0.3153	0.4607	0.1570		0.0171	0.0003	0.0024	0.0417	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.361	0.590	0.480	0.562	0.494	0.065	0.148	0.256	2.92	0.496
Composite NOX:	0.223	0.391	0.388	0.390	0.591	0.062	0.168	1.331	1.02	0.383

* * * * *
* Urban collector-Granville County-Rural
* File 20, Run 1, Scenario 43.
* * * * *
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

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:	0.3181	0.4646	0.1583		0.0148	0.0003	0.0024	0.0360	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.361	0.590	0.480	0.562	0.493	0.065	0.148	0.256	2.92	0.498
Composite NOX:	0.223	0.391	0.388	0.390	0.591	0.062	0.168	1.327	1.02	0.377

```
* #####
* Urban local-Granville County-Rural
* File 20, Run 1, Scenario 44.
* #####
* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	9.0 psi
Weathered RVP:	8.6 psi
Fuel Sulfur Content:	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:	0.3106	0.4539	0.1548		0.0212	0.0003	0.0023	0.0515	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.361	0.590	0.480	0.562	0.493	0.065	0.148	0.256	2.92	0.494
Composite NOX:	0.223	0.391	0.388	0.390	0.591	0.062	0.168	1.330	1.02	0.394


```

M583 Warning:
    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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Wake County-AM Peak
* File 21, Run 1, Scenario 5.
* #####
* 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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Composite NOX: 0.659 0.904 0.987 0.925 4.356 1.390 1.329 12.336 1.23 2.468

* * * * *

* Urban freeway-Wake County-AM Peak

* File 21, Run 1, Scenario 8.

* * * * *

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.720	1.063	0.927	1.029	0.950	0.468	0.591	0.306	2.69	0.847
Composite NOX:	0.664	0.911	0.993	0.932	4.412	1.455	1.391	12.834	1.28	1.851

* * * * *

* Urban principle arterial-Wake County-AM Peak

* File 21, Run 1, Scenario 9.

* * * * *

* Urban principle arterial 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.790	1.157	0.997	1.116	1.149	0.543	0.687	0.417	2.87	0.942
Composite NOX:	0.622	0.847	0.932	0.869	3.819	1.079	1.031	8.466	1.05	1.272

* * * * *

* Urban minor arterial-Wake County-AM Peak

* File 21, Run 1, Scenario 10.

* * * * *

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.781	1.145	0.988	1.106	1.115	0.530	0.671	0.398	2.83	0.939
Composite NOX:	0.625	0.852	0.937	0.874	3.883	1.090	1.042	8.552	1.06	1.133

* * * * *

* Urban collector-Wake County-AM Peak

* File 21, Run 1, Scenario 11.

* * * * *

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite VOC: 0.797 1.165 1.004 1.124 1.166 0.550 0.696 0.427 2.90 0.960
 Composite NOX: 0.626 0.850 0.935 0.872 3.790 1.080 1.032 8.484 1.05 1.078

* * * * *
 * Urban local-Wake County-AM Peak
 * File 21, Run 1, Scenario 12.
 * * * * *
 * 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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.785 1.151 0.993 1.111 1.131 0.536 0.679 0.407 2.85 0.939
 Composite NOX: 0.624 0.850 0.934 0.871 3.851 1.084 1.036 8.508 1.06 1.218

* * * * *
 * Rural interstate-Wake County-PM Peak
 * File 21, Run 1, Scenario 13.
 * * * * *
 * 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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000

```
* #####
* Rural principle arterial-Wake County-PM Peak
* File 21, Run 1, Scenario 14.
* #####
* Rural other principle arterial mix and speeds
M150 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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. 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)							
MT Distribution:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000

```
* # # # # # # # # # # # # # # # # # #  
* Rural minor arterial-Wake County-PM Peak  
* File 21, Run 1, Scenario 15.  
* # # # # # # # # # # # # # # # # # #  
* 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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. 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:0.4242 0.3361 0.1146 0.0343 0.0006 0.0019 0.0825 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.753 1.112 0.963 1.074 1.026 0.496 0.627 0.348 2.72 0.884
Composite NOX: 0.638 0.873 0.956 0.894 4.087 1.159 1.108 9.095 1.10 1.573

* * * * *
* Rural major collector-Wake County-PM Peak
* File 21, Run 1, Scenario 16.
* * * * *
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:0.4374 0.3466 0.1183 0.0262 0.0006 0.0020 0.0630 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.757 1.116 0.966 1.078 1.037 0.500 0.633 0.354 2.73 0.899
Composite NOX: 0.636 0.870 0.953 0.891 4.060 1.147 1.096 8.998 1.09 1.375

* * * * *
* Rural minor collector-Wake County-PM Peak
* File 21, Run 1, Scenario 17.
* * * * *
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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)


```
* #####
* Urban minor arterial-Wake County-PM Peak
* File 21, Run 1, Scenario 22.
* #####
* Urban minor arterial mix and speeds
M615 Comment:
```

```
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.
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####  
* Urban collector-Wake County-PM Peak  
* File 21, Run 1, Scenario 23.  
* #####  
* Urban collector mix and speeds  
M615 Comment:
```

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.

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. 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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.790	1.157	0.997	1.116	1.147	0.543	0.687	0.417	2.87	0.952
Composite NOX:	0.622	0.847	0.932	0.869	3.817	1.079	1.031	8.471	1.05	1.074

* * * * *

* Urban local-Wake County-PM Peak

* File 21, Run 1, Scenario 24.

* * * * *

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.781	1.145	0.988	1.106	1.115	0.530	0.671	0.398	2.83	0.934
Composite NOX:	0.625	0.852	0.937	0.874	3.883	1.090	1.042	8.551	1.06	1.223

* * * * *

* Rural interstate-Wake County-OP Peak

* File 21, Run 1, Scenario 25.

* * * * *

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.702	1.030	0.901	0.997	0.934	0.463	0.585	0.300	3.41	0.748
Composite NOX:	0.689	0.947	1.029	0.968	4.709	2.077	1.987	17.666	1.52	4.976

* #
* Rural principle arterial-Wake County-OP Peak
* File 21, Run 1, Scenario 26.
* #
* Rural other principle 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.713	1.052	0.918	1.018	0.942	0.465	0.588	0.302	2.91	0.826
Composite NOX:	0.672	0.922	1.004	0.943	4.504	1.612	1.542	14.055	1.35	2.329

* #
* Rural minor arterial-Wake County-OP Peak
* File 21, Run 1, Scenario 27.
* #
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.733	1.085	0.943	1.049	0.977	0.477	0.603	0.320	2.69	0.860
Composite NOX:	0.652	0.893	0.976	0.914	4.263	1.283	1.227	10.056	1.16	1.674

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.746	1.103	0.956	1.065	1.008	0.489	0.618	0.337	2.71	0.887
Composite NOX:	0.643	0.880	0.963	0.901	4.148	1.195	1.143	9.377	1.11	1.400

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm

Fuel Sulfur Content: 92. 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:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.708	1.042	0.911	1.009	0.936	0.463	0.585	0.300	3.13	0.806
Composite NOX:	0.679	0.933	1.015	0.954	4.592	1.786	1.709	15.411	1.42	2.896

* #

* Urban freeway-Wake County-OP Peak

* File 21, Run 1, Scenario 32.

* #

* Urban freeway 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.710	1.045	0.913	1.012	0.936	0.463	0.585	0.300	3.05	0.836
Composite NOX:	0.676	0.929	1.011	0.950	4.560	1.708	1.634	14.796	1.40	2.022

* #

* Urban principle arterial-Wake County-OP Peak

* File 21, Run 1, Scenario 33.

* #

* Urban principle 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.781	1.145	0.988	1.106	1.114	0.530	0.671	0.398	2.83	0.941
Composite NOX:	0.625	0.852	0.937	0.874	3.881	1.090	1.042	8.561	1.06	1.082

* #
* Urban local-Wake County-OP Peak
* File 21, Run 1, Scenario 36.
* #
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.776	1.140	0.984	1.101	1.100	0.524	0.664	0.389	2.81	0.929
Composite NOX:	0.627	0.855	0.939	0.876	3.912	1.095	1.047	8.592	1.07	1.228

* #
* Rural interstate-Durham County-AM Peak
* File 21, Run 1, Scenario 37.
* #
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

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:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.702	1.030	0.901	0.997	0.934	0.463	0.585	0.300	3.41	0.748
Composite NOX:	0.689	0.947	1.029	0.968	4.709	2.077	1.987	17.666	1.52	4.976

```
* # # # # # # # # # # # # # # # # # # # # # #  
* Rural principle arterial-Durham County-AM Peak  
* File 21, Run 1, Scenario 38.  
* # # # # # # # # # # # # # # # # # # # # # #  
* Rural other principle arterial 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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. 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:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.720	1.063	0.927	1.029	0.950	0.468	0.591	0.306	2.69	0.832
Composite NOx:	0.664	0.911	0.993	0.932	4.412	1.455	1.391	12.837	1.28	2.192

```
* #####
* Rural minor arterial-Durham County-AM Peak
* File 21, Run 1, Scenario 39.
* #####
* Rural minor arterial 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural major collector-Durham County-AM Peak
* File 21, Run 1, Scenario 40.
* #####
* Rural major 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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Durham County-AM Peak
* File 21, Run 1, Scenario 41.
* #####
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

```

Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4369	0.3461	0.1181		0.0266	0.0006	0.0020	0.0638	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.739	1.094	0.949	1.057	0.992	0.483	0.611	0.328	2.70	0.878
Composite NOX:	0.648	0.887	0.969	0.908	4.208	1.241	1.186	9.728	1.14	1.447

* #
* Rural local-Durham County-AM Peak
* File 21, Run 1, Scenario 42.
* #
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4377	0.3468	0.1183		0.0261	0.0006	0.0020	0.0626	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.764	1.125	0.973	1.087	1.060	0.509	0.644	0.366	2.76	0.908
Composite NOX:	0.632	0.863	0.946	0.884	3.999	1.120	1.070	8.789	1.08	1.351

* #
* Urban interstate-Durham County-AM Peak
* File 21, Run 1, Scenario 43.
* #
* Urban interstate 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.080	0.939	1.044	0.971	0.475	0.601	0.317	2.69	0.831
Composite NOX:	0.654	0.897	0.980	0.918	4.295	1.320	1.262	11.794	1.19	2.390

* #

* Urban freeway-Durham County-AM Peak

* File 21, Run 1, Scenario 44.

* #

* Urban freeway 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.739	1.094	0.949	1.057	0.992	0.483	0.610	0.328	2.70	0.871
Composite NOX:	0.648	0.887	0.970	0.908	4.208	1.241	1.186	11.178	1.14	1.697

* #

* Urban principle arterial-Durham County-AM Peak

* File 21, Run 1, Scenario 45.

* #

* Urban principle arterial 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: 2005
Month: July
Altitude: Low

Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.790	1.157	0.997	1.116	1.149	0.543	0.687	0.417	2.87	0.942
Composite NOX:	0.622	0.847	0.932	0.869	3.819	1.079	1.031	8.466	1.05	1.272

* * * * *

* Urban minor arterial-Durham County-AM Peak

* File 21, Run 1, Scenario 46.

* * * * *

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.797	1.165	1.004	1.124	1.168	0.550	0.696	0.427	2.90	0.958
Composite NOX:	0.626	0.850	0.935	0.872	3.792	1.080	1.032	8.475	1.05	1.128

* * * * *

* Urban collector-Durham County-AM Peak

* File 21, Run 1, Scenario 47.

* * * * *

* 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: 2005
Month: July

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.781	1.145	0.988	1.106	1.114	0.530	0.671	0.398	2.83	0.941
Composite NOX:	0.625	0.852	0.937	0.874	3.881	1.090	1.042	8.561	1.06	1.082

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.797	1.165	1.004	1.124	1.168	0.550	0.696	0.427	2.90	0.953
Composite NOX:	0.626	0.850	0.935	0.872	3.792	1.080	1.032	8.474	1.05	1.216

Calendar Year: 2005

Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.703	1.033	0.904	1.000	0.935	0.463	0.585	0.300	3.34	0.749
Composite NOX:	0.687	0.943	1.026	0.964	4.681	2.007	1.921	17.129	1.49	4.851

* * * * *
 * Rural principle arterial-Durham County-PM Peak
 * File 21, Run 1, Scenario 50.
 * * * * *
 * Rural other principle arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 54.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.722	1.067	0.929	1.032	0.955	0.469	0.593	0.309	2.69	0.836
Composite NOX:	0.662	0.907	0.990	0.928	4.384	1.423	1.361	12.591	1.26	2.163

* * * * *
 * Rural minor arterial-Durham County-PM Peak
 * File 21, Run 1, Scenario 51.
 * * * * *
 * 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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.733	1.085	0.943	1.049	0.977	0.477	0.603	0.320	2.69	0.860
Composite NOX:	0.652	0.893	0.976	0.914	4.263	1.283	1.227	10.056	1.16	1.674

* * * * *
 * Rural major collector-Durham County-PM Peak
 * File 21, Run 1, Scenario 52.
 * * * * *
 * Rural major 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.743	1.098	0.952	1.061	1.000	0.486	0.614	0.333	2.70	0.883
Composite NOX:	0.645	0.883	0.966	0.904	4.179	1.219	1.165	9.558	1.13	1.424

* * * * *
 * Rural minor collector-Durham County-PM Peak
 * File 21, Run 1, Scenario 53.
 * * * * *
 * 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

there are no sales for vehicle class HDGV8b

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.730	1.080	0.939	1.044	0.971	0.475	0.601	0.317	2.69	0.831
Composite NOX:	0.654	0.897	0.980	0.918	4.295	1.320	1.262	11.794	1.19	2.390

* * * * *
* Urban freeway-Durham County-PM Peak
* File 21, Run 1, Scenario 56.
* * * * *
* Urban freeway 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.743	1.098	0.952	1.061	1.000	0.486	0.614	0.333	2.70	0.875
Composite NOX:	0.645	0.883	0.966	0.904	4.178	1.219	1.165	11.005	1.13	1.680

* * * * *
* Urban principle arterial-Durham County-PM Peak
* File 21, Run 1, Scenario 57.
* * * * *
* Urban principle arterial 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.785	1.151	0.993	1.111	1.132	0.536	0.679	0.407	2.85	0.936
Composite NOX:	0.624	0.850	0.934	0.871	3.852	1.084	1.036	8.512	1.06	1.278

* * * * *
* Urban minor arterial-Durham County-PM Peak
* File 21, Run 1, Scenario 58.
* * * * *
* Urban minor arterial 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.790	1.157	0.997	1.116	1.149	0.543	0.687	0.417	2.87	0.950
Composite NOX:	0.622	0.847	0.932	0.869	3.819	1.079	1.031	8.463	1.05	1.124

* * * * *
* Urban collector-Durham County-PM Peak
* File 21, Run 1, Scenario 59.
* * * * *
* Urban collector 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

```
there are no sales for vehicle class HDGV8b
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. 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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.776	1.140	0.984	1.101	1.099	0.524	0.664	0.389	2.81	0.936
Composite NOX:	0.627	0.855	0.939	0.876	3.910	1.095	1.047	8.602	1.07	1.086

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban local-Durham County-PM Peak
* File 21, Run 1, Scenario 60.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. 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:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.797	1.165	1.004	1.124	1.168	0.550	0.696	0.427	2.90	0.953
Composite NOX:	0.626	0.850	0.935	0.872	3.792	1.080	1.032	8.474	1.05	1.216

```
* #####
* Rural interstate-Durham County-OP Peak
* File 21, Run 1, Scenario 61.
* #####
* 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.702	1.030	0.901	0.997	0.934	0.463	0.585	0.300	3.41	0.748
Composite NOX:	0.689	0.947	1.029	0.968	4.709	2.077	1.987	17.666	1.52	4.976

* * * * *
 * Rural principle arterial-Durham County-OP Peak
 * File 21, Run 1, Scenario 62.
 * * * * *
 * Rural other principle arterial 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.720	1.063	0.927	1.029	0.950	0.468	0.591	0.306	2.69	0.832
Composite NOX:	0.664	0.911	0.993	0.932	4.412	1.455	1.391	12.837	1.28	2.192

* * * * *
 * Rural minor arterial-Durham County-OP Peak
 * File 21, Run 1, Scenario 63.
 * * * * *
 * Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 52.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.727	1.076	0.936	1.040	0.965	0.473	0.598	0.314	2.69	0.853
Composite NOX:	0.657	0.901	0.983	0.922	4.325	1.356	1.296	10.620	1.21	1.729

* #
 * Rural major collector-Durham County-OP Peak
 * File 21, Run 1, Scenario 64.
 * #
 * Rural major 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.739	1.094	0.949	1.057	0.992	0.483	0.610	0.328	2.70	0.879
Composite NOX:	0.648	0.887	0.970	0.908	4.208	1.241	1.186	9.731	1.14	1.438

* #
 * Rural minor collector-Durham County-OP Peak
 * File 21, Run 1, Scenario 65.
 * #
 * 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4369	0.3461	0.1181		0.0266	0.0006	0.0020	0.0638	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.739	1.094	0.949	1.057	0.992	0.483	0.611	0.328	2.70	0.878
Composite NOX:	0.648	0.887	0.969	0.908	4.208	1.241	1.186	9.728	1.14	1.447

* #

* Rural local-Durham County-OP Peak

* File 21, Run 1, Scenario 66.

* #

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4377	0.3468	0.1183		0.0261	0.0006	0.0020	0.0626	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.757	1.116	0.966	1.078	1.037	0.500	0.633	0.354	2.73	0.899
Composite NOX:	0.636	0.870	0.953	0.891	4.060	1.147	1.096	8.997	1.09	1.371

* #

* Urban interstate-Durham County-OP Peak

* File 21, Run 1, Scenario 67.

* #

* Urban interstate mix and speeds

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. ppm

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.703	1.033	0.904	1.000	0.935	0.463	0.585	0.300	3.34	0.802
Composite NOX:	0.687	0.943	1.026	0.964	4.681	2.007	1.921	17.128	1.49	3.129

```
* #####
* Urban freeway-Durham County-OP Peak
* File 21, Run 1, Scenario 68.
* #####
* Urban freeway mix and speeds
M615 Comment:
```

M615 Comment:

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 all hours of the day and all vehicle types.

there are no sales for vehicle class HDGV8b

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.715	1.056	0.921	1.021	0.944	0.466	0.589	0.303	2.84	0.842
Composite NOX:	0.669	0.918	1.001	0.939	4.474	1.561	1.493	13.660	1.33	1.923

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Urban principle arterial-Durham County-OP Peak
* File 21, Run 1, Scenario 69.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
```

* Urban principle 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.760	1.121	0.970	1.082	1.049	0.504	0.638	0.360	2.74	0.906
Composite NOX:	0.634	0.866	0.950	0.887	4.031	1.133	1.083	8.891	1.09	1.317

* #

* Urban minor arterial-Durham County-OP Peak

* File 21, Run 1, Scenario 70.

* #

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.776	1.140	0.984	1.101	1.100	0.524	0.663	0.389	2.81	0.934
Composite NOX:	0.627	0.855	0.939	0.876	3.912	1.095	1.047	8.593	1.07	1.137

* #

* Urban collector-Durham County-OP Peak

* File 21, Run 1, Scenario 71.

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Wake County-AM Peak
* File 22, Run 1, Scenario 5.
* #####
* Rural minor collector mix and speeds
M615 Comment:
      User supplied VMT mix.
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban interstate-Wake County-AM Peak
* File 22, Run 1, Scenario 7.
* #####
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan


```

M515 Warning:      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

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban principle arterial-Wake County-AM Peak
* File 22, Run 1, Scenario 9.
* #####
* Urban principle arterial 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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

```
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
```

```
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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. 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:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.824	1.213	1.059	1.174	1.115	0.530	0.671	0.398	2.83	0.991
Composite NOX:	0.674	0.932	1.018	0.954	3.883	1.090	1.042	8.552	1.06	1.194

```

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

```

```

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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.842	1.235	1.077	1.194	1.166	0.550	0.696	0.427	2.90	1.015
Composite NOX:	0.676	0.930	1.016	0.952	3.790	1.080	1.032	8.484	1.05	1.133

Composite NOX: 0.715 0.995 1.078 1.016 4.444 1.509 1.443 13.260 1.31 3.986

* * * * *
* Rural principle arterial-Wake County-PM Peak
* File 22, Run 1, Scenario 14.
* * * * *
* Rural other principle arterial 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
Composite VOC: 0.757 1.121 0.987 1.087 0.950 0.468 0.591 0.306 2.69 0.873
Composite NOX: 0.712 0.991 1.074 1.012 4.412 1.455 1.391 12.837 1.28 2.247

* * * * *
* Rural minor arterial-Wake County-PM Peak
* File 22, Run 1, Scenario 15.
* * * * *
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.794	1.175	1.029	1.138	1.026	0.496	0.627	0.348	2.72	0.931
Composite NOX:	0.687	0.952	1.037	0.974	4.087	1.159	1.108	9.095	1.10	1.630

* * * * *

* Rural major collector-Wake County-PM Peak

* File 22, Run 1, Scenario 16.

* * * * *

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.798	1.180	1.033	1.143	1.037	0.500	0.633	0.354	2.73	0.948
Composite NOX:	0.685	0.949	1.034	0.971	4.060	1.147	1.096	8.998	1.09	1.433

* * * * *

* Rural minor collector-Wake County-PM Peak

* File 22, Run 1, Scenario 17.

* * * * *

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4369	0.3461	0.1181		0.0266	0.0006	0.0020	0.0638	0.0059	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):
 Composite VOC: 0.802 1.185 1.037 1.148 1.048 0.504 0.638 0.360 2.74 0.952
 Composite NOX: 0.683 0.946 1.030 0.967 4.030 1.133 1.083 8.894 1.09 1.431

* * * * *
 * Rural local-Wake County-PM Peak
 * File 22, Run 1, Scenario 18.
 * * * * *
 * 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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4377	0.3468	0.1183		0.0261	0.0006	0.0020	0.0626	0.0059	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.798 1.180 1.033 1.143 1.037 0.500 0.633 0.354 2.73 0.948
 Composite NOX: 0.685 0.949 1.034 0.971 4.060 1.147 1.096 8.997 1.09 1.430

* * * * *
 * Urban interstate-Wake County-PM Peak
 * File 22, Run 1, Scenario 19.
 * * * * *
 * Urban interstate mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 53.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000

VTM Distribution:0.4408 0.3494 0.1192 0.0241 0.0006 0.0020 0.0579 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.829 1.219 1.064 1.179 1.132 0.536 0.679 0.407 2.85 0.988
Composite NOX: 0.673 0.929 1.015 0.951 3.852 1.084 1.036 8.512 1.06 1.337

* * * * *
* Urban minor arterial-Wake County-PM Peak
* File 22, Run 1, Scenario 22.
* * * * *
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:0.4520 0.3582 0.1223 0.0173 0.0006 0.0021 0.0414 0.0061 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.819 1.207 1.055 1.168 1.100 0.524 0.663 0.389 2.81 0.986
Composite NOX: 0.676 0.934 1.020 0.956 3.912 1.095 1.047 8.593 1.07 1.198

* * * * *
* Urban collector-Wake County-PM Peak
* File 22, Run 1, Scenario 23.
* * * * *
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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)

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.736	1.082	0.956	1.050	0.934	0.463	0.585	0.300	3.41	0.777
Composite NOX:	0.737	1.028	1.111	1.049	4.709	2.077	1.987	17.666	1.52	5.020

* * * * *

* Rural principle arterial-Wake County-OP Peak

* File 22, Run 1, Scenario 26.

* * * * *

* Rural other principle 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.750	1.108	0.977	1.075	0.942	0.465	0.588	0.302	2.91	0.865
Composite NOX:	0.720	1.002	1.086	1.024	4.504	1.612	1.542	14.055	1.35	2.384

* * * * *

* Rural minor arterial-Wake County-OP Peak

* File 22, Run 1, Scenario 27.

* * * * *

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.772	1.145	1.006	1.110	0.977	0.477	0.603	0.320	2.69	0.905
Composite NOX:	0.700	0.973	1.056	0.994	4.263	1.283	1.227	10.056	1.16	1.731

* #

* Rural major collector-Wake County-OP Peak

* File 22, Run 1, Scenario 28.

* #

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.787	1.165	1.021	1.129	1.008	0.489	0.618	0.337	2.71	0.934
Composite NOX:	0.691	0.959	1.044	0.981	4.148	1.195	1.143	9.377	1.11	1.467

* #

* Rural minor collector-Wake County-OP Peak

* File 22, Run 1, Scenario 29.

* #

* Rural minor collector 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. ppm

Exhaust I/M Program: No
Evap I/M Program: No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.4369	0.3461	0.1181		0.0266	0.0006	0.0020	0.0638	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.794	1.175	1.029	1.138	1.027	0.496	0.627	0.348	2.72	0.942
Composite NOX:	0.687	0.952	1.037	0.974	4.088	1.159	1.108	9.092	1.10	1.451

```

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

```

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4377	0.3468	0.1183		0.0261	0.0006	0.0020	0.0626	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.794	1.175	1.029	1.138	1.027	0.496	0.627	0.348	2.72	0.943
Composite NOX:	0.687	0.952	1.037	0.974	4.088	1.159	1.108	9.094	1.10	1.439

```

M581 Warning:      User supplied VMT mix.
                   The user supplied freeway average speed of 61.0
                   will be used for all hours of the day. 100% of VMT
                   has been assigned to the 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. ppm

```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.743	1.096	0.968	1.064	0.936	0.463	0.585	0.300	3.13	0.843
Composite NOX:	0.727	1.013	1.097	1.035	4.592	1.786	1.709	15.411	1.42	2.948

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.745	1.100	0.971	1.067	0.936	0.463	0.585	0.300	3.05	0.876
Composite NOX:	0.724	1.009	1.093	1.031	4.560	1.708	1.634	14.796	1.40	2.079

```
* #####
* Urban principle arterial-Wake County-OP Peak
* File 22, Run 1, Scenario 33.
* #####
* Urban principle 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.802	1.185	1.037	1.148	1.049	0.504	0.638	0.360	2.74	0.955
Composite NOX:	0.683	0.946	1.030	0.967	4.031	1.133	1.083	8.891	1.09	1.375

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:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.802	1.185	1.037	1.148	1.048	0.504	0.638	0.360	2.74	0.965
Composite NOX:	0.683	0.946	1.031	0.967	4.031	1.133	1.083	8.888	1.09	1.221

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.824	1.213	1.059	1.174	1.114	0.530	0.671	0.398	2.83	0.994
Composite NOX:	0.674	0.932	1.018	0.954	3.881	1.090	1.042	8.561	1.06	1.144

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.

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.819	1.207	1.055	1.168	1.100	0.524	0.664	0.389	2.81	0.980
Composite NOX:	0.676	0.934	1.020	0.956	3.912	1.095	1.047	8.592	1.07	1.287

[illegible]

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi

Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.779	1.155	1.013	1.119	0.992	0.483	0.611	0.328	2.70	0.913
Composite NOX:	0.696	0.966	1.050	0.988	4.207	1.241	1.187	9.730	1.14	1.697

* * * * *
* Rural major collector-Durham County-AM Peak
* File 22, Run 1, Scenario 40.
* * * * *
* Rural major 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.783	1.160	1.017	1.124	1.000	0.486	0.614	0.333	2.70	0.929
Composite NOX:	0.694	0.963	1.047	0.984	4.179	1.219	1.165	9.558	1.13	1.482

* * * * *
* Rural minor collector-Durham County-AM Peak
* File 22, Run 1, Scenario 41.
* * * * *
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4369	0.3461	0.1181		0.0266	0.0006	0.0020	0.0638	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.779	1.155	1.013	1.119	0.992	0.483	0.611	0.328	2.70	0.925
Composite NOX:	0.696	0.966	1.050	0.988	4.208	1.241	1.186	9.728	1.14	1.505

* #
* Rural local-Durham County-AM Peak
* File 22, Run 1, Scenario 42.
* #
* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4377	0.3468	0.1183		0.0261	0.0006	0.0020	0.0626	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.806	1.190	1.042	1.153	1.060	0.509	0.644	0.366	2.76	0.957
Composite NOX:	0.680	0.942	1.027	0.964	3.999	1.120	1.070	8.789	1.08	1.410

* #
* Urban interstate-Durham County-AM Peak
* File 22, Run 1, Scenario 43.
* #
* Urban interstate 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

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:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.769	1.140	1.002	1.105	0.971	0.475	0.601	0.317	2.69	0.872
Composite NOX:	0.703	0.977	1.060	0.998	4.295	1.320	1.262	11.794	1.19	2.444

```
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Urban freeway-Durham County-AM Peak  
* File 22, Run 1, Scenario 44.  
* # # # # # # # # # # # # # # # # # # # # # # # # # # # #  
* Urban freeway 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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.779	1.155	1.013	1.119	0.992	0.483	0.610	0.328	2.70	0.916
Composite NOx:	0.696	0.966	1.050	0.988	4.208	1.241	1.186	11.178	1.14	1.754

```
* #####
* Urban principle arterial-Durham County-AM Peak
* File 22, Run 1, Scenario 45.
* #####
* Urban principle arterial 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban minor arterial-Durham County-AM Peak
* File 22, Run 1, Scenario 46.
* #####
* 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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban collector-Durham County-AM Peak
* File 22, Run 1, Scenario 47.
* #####
* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

```

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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.824	1.213	1.059	1.174	1.114	0.530	0.671	0.398	2.83	0.994
Composite NOX:	0.674	0.932	1.018	0.954	3.881	1.090	1.042	8.561	1.06	1.144

* #

* Urban local-Durham County-AM Peak

* File 22, Run 1, Scenario 48.

* #

* 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. ppm

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.842	1.235	1.077	1.194	1.168	0.550	0.696	0.427	2.90	1.006
Composite NOX:	0.676	0.930	1.016	0.952	3.792	1.080	1.032	8.474	1.05	1.276

* #

* Rural interstate-Durham County-PM Peak

* File 22, Run 1, Scenario 49.

* #

* 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
```

```

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.738	1.086	0.959	1.053	0.935	0.463	0.585	0.300	3.34	0.779
Composite NOX:	0.735	1.024	1.108	1.046	4.681	2.007	1.921	17.129	1.49	4.895

* #
* Rural principle arterial-Durham County-PM Peak
* File 22, Run 1, Scenario 50.
* #
* Rural other principle arterial mix and speeds

M615 Comment:
User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.760	1.125	0.990	1.091	0.955	0.469	0.593	0.309	2.69	0.877
Composite NOX:	0.710	0.988	1.071	1.009	4.384	1.423	1.361	12.591	1.26	2.218

* #
* Rural minor arterial-Durham County-PM Peak
* File 22, Run 1, Scenario 51.
* #
* 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

Calendar Year: 2005
Month: July
Altitude: Low

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural major collector-Durham County-PM Peak
* File 22, Run 1, Scenario 52.
* #####
* Rural major 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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Durham County-PM Peak
* File 22, Run 1, Scenario 53.
* #####
* 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
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.779	1.155	1.013	1.119	0.992	0.483	0.611	0.328	2.70	0.925
Composite NOX:	0.696	0.966	1.050	0.988	4.208	1.241	1.186	9.728	1.14	1.505

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.802	1.185	1.037	1.148	1.048	0.504	0.638	0.360	2.74	0.952
Composite NOX:	0.683	0.946	1.031	0.967	4.030	1.133	1.083	8.896	1.09	1.420

Calendar Year: 2005

Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.769	1.140	1.002	1.105	0.971	0.475	0.601	0.317	2.69	0.872
Composite NOX:	0.703	0.977	1.060	0.998	4.295	1.320	1.262	11.794	1.19	2.442

* * * * *
 * Urban freeway-Durham County-PM Peak
 * File 22, Run 1, Scenario 56.
 * * * * *
 * Urban freeway 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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.783	1.160	1.017	1.124	1.000	0.486	0.614	0.333	2.70	0.921
Composite NOX:	0.694	0.963	1.047	0.984	4.178	1.219	1.165	11.005	1.13	1.737

* * * * *
 * Urban principle arterial-Durham County-PM Peak
 * File 22, Run 1, Scenario 57.
 * * * * *
 * Urban principle arterial 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

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.829	1.219	1.064	1.179	1.132	0.536	0.679	0.407	2.85	0.988
Composite NOX:	0.673	0.929	1.015	0.951	3.852	1.084	1.036	8.512	1.06	1.337

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.834	1.225	1.069	1.186	1.149	0.543	0.687	0.417	2.87	1.003
Composite NOX:	0.671	0.927	1.013	0.949	3.819	1.079	1.031	8.463	1.05	1.185

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.819	1.207	1.055	1.168	1.099	0.524	0.664	0.389	2.81	0.989
Composite NOX:	0.676	0.934	1.020	0.956	3.910	1.095	1.047	8.602	1.07	1.147

* #
 * Urban local-Durham County-PM Peak
 * File 22, Run 1, Scenario 60.
 * #
 * 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.842	1.235	1.077	1.194	1.168	0.550	0.696	0.427	2.90	1.006
Composite NOX:	0.676	0.930	1.016	0.952	3.792	1.080	1.032	8.474	1.05	1.276

* #
 * Rural interstate-Durham County-OP Peak
 * File 22, Run 1, Scenario 61.
 * #
 * 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.736	1.082	0.956	1.050	0.934	0.463	0.585	0.300	3.41	0.777
Composite NOX:	0.737	1.028	1.111	1.049	4.709	2.077	1.987	17.666	1.52	5.020

* * * * *
* Rural principle arterial-Durham County-OP Peak
* File 22, Run 1, Scenario 62.
* * * * *
* Rural other principle arterial 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4105	0.3255	0.1111		0.0426	0.0006	0.0019	0.1024	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.757	1.121	0.987	1.087	0.950	0.468	0.591	0.306	2.69	0.873
Composite NOX:	0.712	0.991	1.074	1.012	4.412	1.455	1.391	12.837	1.28	2.247

* * * * *
* Rural minor arterial-Durham County-OP Peak
* File 22, Run 1, Scenario 63.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 52.0
will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4242	0.3361	0.1146		0.0343	0.0006	0.0019	0.0825	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.766	1.135	0.998	1.100	0.965	0.473	0.598	0.314	2.69	0.897
Composite NOX:	0.705	0.980	1.064	1.002	4.325	1.356	1.296	10.620	1.21	1.785

* * * * *

* Rural major collector-Durham County-OP Peak

* File 22, Run 1, Scenario 64.

* * * * *

* Rural major 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.779	1.155	1.013	1.119	0.992	0.483	0.610	0.328	2.70	0.925
Composite NOX:	0.696	0.966	1.050	0.988	4.208	1.241	1.186	9.731	1.14	1.497

* * * * *

* Rural minor collector-Durham County-OP Peak

* File 22, Run 1, Scenario 65.

* * * * *

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 48.0

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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.3930	0.3116	0.1063		0.0533	0.0006	0.0018	0.1281	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.738	1.086	0.959	1.053	0.935	0.463	0.585	0.300	3.34	0.837
Composite NOX:	0.735	1.025	1.108	1.046	4.681	2.007	1.921	17.128	1.49	3.182

* #
 * Urban freeway-Durham County-OP Peak
 * File 22, Run 1, Scenario 68.
 * #
 * 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4276	0.3390	0.1157		0.0321	0.0006	0.0020	0.0772	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.752	1.112	0.980	1.079	0.944	0.466	0.589	0.303	2.84	0.884
Composite NOX:	0.717	0.999	1.082	1.020	4.474	1.561	1.493	13.660	1.33	1.980

* #
 * Urban principle arterial-Durham County-OP Peak
 * File 22, Run 1, Scenario 69.
 * #
 * Urban principle 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: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4408	0.3494	0.1192		0.0241	0.0006	0.0020	0.0579	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.802	1.185	1.037	1.148	1.049	0.504	0.638	0.360	2.74	0.955
Composite NOX:	0.683	0.946	1.030	0.967	4.031	1.133	1.083	8.891	1.09	1.375

* * * * *
 * Urban minor arterial-Durham County-OP Peak
 * File 22, Run 1, Scenario 70.
 * * * * *
 * 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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4520	0.3582	0.1223		0.0173	0.0006	0.0021	0.0414	0.0061	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.819	1.207	1.055	1.168	1.100	0.524	0.663	0.389	2.81	0.986
Composite NOX:	0.676	0.934	1.020	0.956	3.912	1.095	1.047	8.593	1.07	1.198

* * * * *
 * Urban collector-Durham County-OP Peak
 * File 22, Run 1, Scenario 71.
 * * * * *
 * Urban collector 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4559	0.3612	0.1233		0.0150	0.0006	0.0021	0.0358	0.0061	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.815	1.201	1.050	1.163	1.084	0.519	0.656	0.381	2.79	0.984
Composite NOX:	0.677	0.936	1.022	0.958	3.938	1.100	1.052	8.641	1.08	1.151

* #

* Urban local-Durham County-OP Peak

* File 22, Run 1, Scenario 72.

* #

* 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

Calendar Year: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4453	0.3529	0.1204		0.0214	0.0006	0.0020	0.0513	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.834	1.225	1.069	1.186	1.148	0.543	0.687	0.417	2.87	0.998
Composite NOX:	0.671	0.927	1.013	0.949	3.818	1.079	1.031	8.462	1.05	1.273

* #

* Rural interstate-Granville(Modeled)-AM Peak

* File 22, Run 1, Scenario 73.

* #

* 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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.736	1.082	0.956	1.050	0.934	0.463	0.585	0.300	3.41	0.777
Composite NOX:	0.737	1.028	1.111	1.049	4.709	2.077	1.987	17.666	1.52	5.020

* * * * *
 * Rural major collector-Granville(Modeled)-AM Peak
 * File 22, Run 1, Scenario 74.
 * * * * *
 * Rural major collector 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

Calendar Year: 2005
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 92. 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:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.819	1.207	1.055	1.168	1.100	0.524	0.664	0.389	2.81	0.973
Composite NOX:	0.676	0.934	1.020	0.956	3.912	1.095	1.047	8.602	1.07	1.393

* * * * *
 * Rural minor collector-Granville(Modeled)-AM Peak
 * File 22, Run 1, Scenario 75.
 * * * * *

* Rural minor 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4369	0.3461	0.1181		0.0266	0.0006	0.0020	0.0638	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.798	1.180	1.033	1.143	1.037	0.500	0.633	0.354	2.73	0.947
Composite NOX:	0.685	0.949	1.034	0.971	4.060	1.147	1.096	8.995	1.09	1.441

* #

* Rural local-Granville(Modeled)-AM Peak

* File 22, Run 1, Scenario 76.

* #

* Rural local 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: 2005
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 92. 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:	0.4377	0.3468	0.1183		0.0261	0.0006	0.0020	0.0626	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.783	1.160	1.017	1.124	1.000	0.486	0.614	0.333	2.70	0.930
Composite NOX:	0.694	0.963	1.047	0.984	4.178	1.219	1.165	9.557	1.13	1.478

* #

* Rural interstate-Granville(Modeled)-PM Peak

* File 22, Run 1, Scenario 77.

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural local-Granville(Modeled)-PM Peak
* File 22, Run 1, Scenario 80.
* #####
* Rural local mix and speeds
M615 Comment:
User supplied VMT mix.
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

* Rural interstate mix and speeds

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
```

Calendar Year:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. 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
GWR:	<6000	>6000	(All)							
VMT Distribution:	0.3277	0.2596	0.0886		0.0934	0.0005	0.0015	0.2243	0.0044	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.736	1.082	0.956	1.050	0.934	0.463	0.585	0.300	3.41	0.777
Composite NOx:	0.737	1.028	1.111	1.049	4.709	2.077	1.987	17.666	1.52	5.020

* Rural major collector-Granville(Modeled)-OP Peak

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:	2005
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	92. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.4374	0.3466	0.1183		0.0262	0.0006	0.0020	0.0630	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.811	1.196	1.046	1.158	1.072	0.513	0.650	0.373	2.77	0.963
Composite NOX:	0.678	0.939	1.024	0.960	3.967	1.105	1.056	8.678	1.08	1.403

```

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

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural local-Granville(Modeled)-OP Peak
* File 22, Run 1, Scenario 84.
* #####
* Rural local mix and speeds
* M615 Comment:
```

```

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

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

June 7, 2007

```

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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban interstate-Wake County-AM Peak
* File 23, Run 1, Scenario 7.
* #####
* Urban interstate mix and speeds
```

```
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the 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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Composite Emission Factors (g/mi):
 Composite VOC: 0.582 0.868 0.723 0.831 0.913 0.269 0.402 0.367 2.85 0.724
 Composite NOX: 0.413 0.622 0.714 0.645 2.636 0.539 0.627 6.016 1.04 0.775

* * * * *
 * Urban local-Wake County-AM Peak
 * File 23, Run 1, Scenario 12.
 * * * * *
 * 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.568 0.853 0.710 0.816 0.872 0.258 0.384 0.342 2.77 0.704
 Composite NOX: 0.408 0.619 0.711 0.643 2.697 0.540 0.628 6.028 1.06 0.871

* * * * *
 * Rural interstate-Wake County-PM Peak
 * File 23, Run 1, Scenario 13.
 * * * * *
 * Rural interstate 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000

VTM Distribution:0.3819 0.3679 0.1254 0.0342 0.0004 0.0019 0.0828 0.0055 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.543 0.826 0.689 0.791 0.795 0.237 0.349 0.292 2.65 0.664
Composite NOX: 0.418 0.636 0.728 0.660 2.863 0.578 0.673 6.462 1.10 1.125

* * * * *
* Rural major collector-Wake County-PM Peak
* File 23, Run 1, Scenario 16.
* * * * *
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:0.3940 0.3796 0.1293 0.0260 0.0004 0.0020 0.0631 0.0057 1.0000
Composite Emission Factors (g/mi):
Composite VOC: 0.546 0.829 0.691 0.794 0.803 0.239 0.352 0.297 2.66 0.675
Composite NOX: 0.417 0.634 0.725 0.657 2.844 0.572 0.665 6.391 1.09 0.983

* * * * *
* Rural minor collector-Wake County-PM Peak
* File 23, Run 1, Scenario 17.
* * * * *
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.572	0.857	0.713	0.820	0.884	0.261	0.390	0.349	2.79	0.713
Composite NOX:	0.407	0.617	0.709	0.641	2.674	0.537	0.625	5.996	1.05	0.770

* * * * *

* Urban local-Wake County-PM Peak

* File 23, Run 1, Scenario 24.

* * * * *

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.565	0.849	0.707	0.813	0.860	0.255	0.378	0.334	2.75	0.700
Composite NOX:	0.409	0.621	0.713	0.645	2.719	0.543	0.632	6.060	1.06	0.874

* * * * *

* Rural interstate-Wake County-OP Peak

* File 23, Run 1, Scenario 25.

* * * * *

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.503	0.771	0.646	0.739	0.726	0.219	0.320	0.251	3.31	0.569
Composite NOX:	0.450	0.691	0.783	0.714	3.298	1.040	1.217	12.479	1.52	3.527

* #
 * Rural principle arterial-Wake County-OP Peak
 * File 23, Run 1, Scenario 26.
 * #
 * Rural other principle 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3699	0.3563	0.1214		0.0424	0.0004	0.0019	0.1025	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.511	0.783	0.656	0.751	0.730	0.220	0.321	0.252	2.90	0.620
Composite NOX:	0.441	0.675	0.767	0.698	3.174	0.830	0.970	10.079	1.38	1.674

* #
 * Rural minor arterial-Wake County-OP Peak
 * File 23, Run 1, Scenario 27.
 * #
 * Rural minor arterial 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.530	0.810	0.677	0.776	0.763	0.228	0.335	0.272	2.62	0.649
Composite NOX:	0.425	0.649	0.740	0.672	2.966	0.630	0.734	7.058	1.15	1.188

* #

* Rural major collector-Wake County-OP Peak

* File 23, Run 1, Scenario 28.

* #

* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.541	0.823	0.686	0.788	0.788	0.235	0.345	0.287	2.64	0.669
Composite NOX:	0.419	0.639	0.730	0.662	2.883	0.584	0.680	6.532	1.10	0.997

* #

* Rural minor collector-Wake County-OP Peak

* File 23, Run 1, Scenario 29.

* #

* Rural minor 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.546	0.829	0.691	0.794	0.803	0.239	0.352	0.297	2.66	0.674
Composite NOX:	0.417	0.634	0.725	0.657	2.843	0.572	0.665	6.391	1.09	0.989

* #
 * Rural local-Wake County-OP Peak
 * File 23, Run 1, Scenario 30.
 * #
 * Rural 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.543	0.826	0.689	0.791	0.796	0.237	0.349	0.292	2.65	0.672
Composite NOX:	0.418	0.636	0.728	0.660	2.864	0.578	0.673	6.462	1.10	0.989

* #
 * Urban interstate-Wake County-OP Peak
 * File 23, Run 1, Scenario 31.
 * #
 * 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3540	0.3411	0.1163		0.0531	0.0004	0.0018	0.1283	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.507	0.777	0.651	0.745	0.727	0.219	0.320	0.251	3.11	0.607
Composite NOX:	0.446	0.683	0.775	0.707	3.238	0.932	1.090	11.243	1.45	2.105

* #

* Urban freeway-Wake County-OP Peak

* File 23, Run 1, Scenario 32.

* #

* Urban freeway 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3855	0.3711	0.1264		0.0319	0.0004	0.0019	0.0772	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.511	0.783	0.656	0.751	0.730	0.220	0.321	0.252	2.90	0.630
Composite NOX:	0.441	0.675	0.767	0.698	3.175	0.830	0.970	10.076	1.38	1.406

* #

* Urban principle arterial-Wake County-OP Peak

* File 23, Run 1, Scenario 33.

* #

* Urban principle 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Urban minor arterial-Wake County-OP Peak
* File 23, Run 1, Scenario 34.
* #####
* Urban 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

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban collector-Wake County-OP Peak
* File 23, Run 1, Scenario 35.
* #####
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.565	0.849	0.707	0.813	0.860	0.255	0.378	0.334	2.75	0.705
Composite NOX:	0.409	0.621	0.713	0.645	2.719	0.543	0.632	6.063	1.06	0.776

* #
* Urban local-Wake County-OP Peak
* File 23, Run 1, Scenario 36.
* #
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.562	0.845	0.704	0.809	0.849	0.252	0.373	0.327	2.73	0.696
Composite NOX:	0.410	0.623	0.714	0.646	2.739	0.546	0.635	6.091	1.07	0.878

* #
* Rural interstate-Durham County-AM Peak
* File 23, Run 1, Scenario 37.
* #
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.503	0.771	0.646	0.739	0.726	0.219	0.320	0.251	3.31	0.569
Composite NOX:	0.450	0.691	0.783	0.714	3.298	1.040	1.217	12.479	1.52	3.529

```
# # # # # # # # # # # # # # # # # # # #  
* Rural principle arterial-Durham County-AM Peak  
* File 23, Run 1, Scenario 38.  
# # # # # # # # # # # # # # # # # # # #  
* Rural other principle arterial 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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3699	0.3563	0.1214		0.0424	0.0004	0.0019	0.1025	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.517	0.793	0.663	0.760	0.738	0.222	0.324	0.257	2.62	0.626
Composite NOx:	0.434	0.664	0.756	0.688	3.090	0.727	0.848	8.892	1.28	1.544

```
* #####
* Rural minor arterial-Durham County-AM Peak
* File 23, Run 1, Scenario 39.
* #####
* Rural minor arterial 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

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:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.535	0.816	0.681	0.782	0.775	0.231	0.340	0.279	2.63	0.655
Composite NOX:	0.422	0.644	0.735	0.667	2.926	0.608	0.708	6.806	1.13	1.162

```
* #####
* Rural major collector-Durham County-AM Peak
* File 23, Run 1, Scenario 40.
* #####
* 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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.538	0.820	0.684	0.785	0.782	0.233	0.343	0.283	2.63	0.665
Composite NOX:	0.421	0.641	0.733	0.665	2.905	0.596	0.694	6.673	1.11	1.008

```
* #####
* Rural minor collector-Durham County-AM Peak
* File 23, Run 1, Scenario 41.
* #####
* Rural minor 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
```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

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:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.541	0.823	0.686	0.788	0.788	0.235	0.345	0.287	2.64	0.668
Composite NOX:	0.419	0.639	0.730	0.662	2.882	0.584	0.680	6.533	1.10	1.002

* #

* Rural local-Durham County-AM Peak

* File 23, Run 1, Scenario 42.

* #

* 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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.549	0.832	0.694	0.797	0.811	0.241	0.356	0.302	2.67	0.678
Composite NOX:	0.415	0.632	0.723	0.655	2.823	0.565	0.657	6.314	1.09	0.975

* #

* Urban interstate-Durham County-AM Peak

* File 23, Run 1, Scenario 43.

* #

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3540	0.3411	0.1163		0.0531	0.0004	0.0018	0.1283	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.517	0.793	0.663	0.760	0.738	0.222	0.324	0.257	2.62	0.617
Composite NOX:	0.434	0.664	0.756	0.688	3.090	0.727	0.848	8.890	1.28	1.781

* #

* Urban freeway-Durham County-AM Peak

* File 23, Run 1, Scenario 44.

* #

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3855	0.3711	0.1264		0.0319	0.0004	0.0019	0.0772	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.538	0.820	0.684	0.785	0.781	0.233	0.343	0.283	2.63	0.660
Composite NOX:	0.421	0.641	0.733	0.665	2.905	0.596	0.694	7.393	1.11	1.164

* #

* Urban principle arterial-Durham County-AM Peak

* File 23, Run 1, Scenario 45.

* #

* Urban principle arterial 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: 2008
Month: July
Altitude: Low

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban minor arterial-Durham County-AM Peak
* File 23, Run 1, Scenario 46.
* #####
* 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
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban collector-Durham County-AM Peak
* File 23, Run 1, Scenario 47.
* #####
* 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
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban local-Durham County-AM Peak
* File 23, Run 1, Scenario 48.
* #####
* Urban local mix and speeds
M615 Comment:
```

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.

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate-Durham County-PM Peak
* File 23, Run 1, Scenario 49.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* 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.

Calendar Year: 2008

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural principle arterial-Durham County-PM Peak
* File 23, Run 1, Scenario 50.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
        User supplied VMT mix.
M581 Warning:
        The user supplied freeway average speed of 54.0
        will be used for all hours of the day. 100% of VMT
        has been assigned to the freeway roadway type for
        all hours of the day and all vehicle types.
M 48 Warning:
        there are no sales for vehicle class HDGV8b

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor arterial-Durham County-PM Peak
* File 23, Run 1, Scenario 51.
* #####
* Rural minor arterial 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
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.530	0.810	0.677	0.776	0.763	0.228	0.335	0.272	2.62	0.649
Composite NOX:	0.425	0.649	0.740	0.672	2.966	0.630	0.734	7.058	1.15	1.188

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.535	0.816	0.681	0.782	0.776	0.231	0.340	0.279	2.63	0.662
Composite NOx:	0.422	0.644	0.735	0.667	2.927	0.608	0.708	6.807	1.13	1.019

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.541	0.823	0.686	0.788	0.788	0.235	0.345	0.287	2.64	0.668
Composite NOX:	0.419	0.639	0.730	0.662	2.882	0.584	0.680	6.533	1.10	1.002

```
* #####
* Rural local-Durham County-PM Peak
* File 23, Run 1, Scenario 54.
* #####
* 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
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.549	0.832	0.694	0.797	0.811	0.241	0.356	0.302	2.67	0.678
Composite NOX:	0.415	0.632	0.723	0.655	2.823	0.565	0.657	6.314	1.09	0.975

```
* #####
* Urban interstate-Durham County-PM Peak
* File 23, Run 1, Scenario 55.
* #####
* Urban interstate mix and speeds
M615 Comment:
        User supplied VMT mix.
M581 Warning:
        The user supplied freeway average speed of 53.0
        will be used for all hours of the day. 100% of VMT
        has been assigned to the 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3540	0.3411	0.1163		0.0531	0.0004	0.0018	0.1283	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.521	0.798	0.667	0.765	0.746	0.224	0.327	0.261	2.62	0.622
Composite NOX:	0.431	0.659	0.751	0.683	3.051	0.694	0.810	8.516	1.23	1.728

* * * * *
* Urban freeway-Durham County-PM Peak
* File 23, Run 1, Scenario 56.
* * * * *
* Urban freeway 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3855	0.3711	0.1264		0.0319	0.0004	0.0019	0.0772	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.535	0.816	0.681	0.782	0.775	0.231	0.340	0.279	2.63	0.657
Composite NOX:	0.422	0.644	0.735	0.667	2.926	0.608	0.708	7.528	1.13	1.177

* * * * *
* Urban principle arterial-Durham County-PM Peak
* File 23, Run 1, Scenario 57.
* * * * *
* Urban principle arterial 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.568	0.853	0.710	0.816	0.872	0.258	0.384	0.342	2.77	0.702
Composite NOX:	0.408	0.619	0.711	0.643	2.698	0.540	0.628	6.030	1.06	0.913

* * * * *
* Urban minor arterial-Durham County-PM Peak
* File 23, Run 1, Scenario 58.
* * * * *
* Urban minor arterial 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.572	0.857	0.713	0.820	0.885	0.261	0.390	0.350	2.79	0.711
Composite NOX:	0.407	0.617	0.709	0.641	2.675	0.537	0.625	5.995	1.05	0.805

* * * * *
* Urban collector-Durham County-PM Peak
* File 23, Run 1, Scenario 59.
* * * * *
* Urban collector 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

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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.503	0.771	0.646	0.739	0.726	0.219	0.320	0.251	3.31	0.569
Composite NOX:	0.450	0.691	0.783	0.714	3.298	1.040	1.217	12.479	1.52	3.527

* * * * *
 * Rural principle arterial-Durham County-OP Peak
 * File 23, Run 1, Scenario 62.
 * * * * *
 * Rural other principle arterial 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3699	0.3563	0.1214		0.0424	0.0004	0.0019	0.1025	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.517	0.793	0.663	0.760	0.738	0.222	0.324	0.257	2.62	0.626
Composite NOX:	0.434	0.664	0.756	0.688	3.090	0.727	0.848	8.892	1.28	1.540

* * * * *
 * Rural minor arterial-Durham County-OP Peak
 * File 23, Run 1, Scenario 63.
 * * * * *
 * Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 52.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.523	0.801	0.670	0.768	0.749	0.225	0.329	0.264	2.62	0.641
Composite NOX:	0.430	0.657	0.748	0.680	3.029	0.677	0.789	7.596	1.21	1.241

* * * * *
 * Rural major collector-Durham County-OP Peak
 * File 23, Run 1, Scenario 64.
 * * * * *
 * Rural major 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.535	0.816	0.681	0.782	0.776	0.231	0.340	0.279	2.63	0.662
Composite NOX:	0.422	0.644	0.735	0.667	2.927	0.608	0.708	6.807	1.13	1.019

* * * * *
 * Rural minor collector-Durham County-OP Peak
 * File 23, Run 1, Scenario 65.
 * * * * *
 * Rural minor 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.541	0.823	0.686	0.788	0.788	0.235	0.345	0.287	2.64	0.668
Composite NOX:	0.419	0.639	0.730	0.662	2.882	0.584	0.680	6.533	1.10	1.002

* #

* Rural local-Durham County-OP Peak

* File 23, Run 1, Scenario 66.

* #

* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.546	0.829	0.691	0.794	0.803	0.239	0.352	0.297	2.66	0.675
Composite NOX:	0.417	0.634	0.725	0.657	2.844	0.572	0.665	6.390	1.09	0.982

* #

* Urban interstate-Durham County-OP Peak

* File 23, Run 1, Scenario 67.

* #

* Urban 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3540	0.3411	0.1163		0.0531	0.0004	0.0018	0.1283	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.504	0.773	0.647	0.741	0.726	0.219	0.320	0.251	3.25	0.605
Composite NOX:	0.449	0.688	0.781	0.712	3.278	1.005	1.176	12.080	1.49	2.219

* * * * *
 * Urban freeway-Durham County-OP Peak
 * File 23, Run 1, Scenario 68.
 * * * * *
 * 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3855	0.3711	0.1264		0.0319	0.0004	0.0019	0.0772	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.514	0.788	0.659	0.755	0.734	0.221	0.323	0.255	2.76	0.633
Composite NOX:	0.438	0.670	0.761	0.693	3.134	0.780	0.911	9.503	1.33	1.356

* * * * *
 * Urban principle arterial-Durham County-OP Peak
 * File 23, Run 1, Scenario 69.
 * * * * *

* Urban principle 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.549	0.832	0.694	0.797	0.811	0.241	0.356	0.302	2.67	0.680
Composite NOX:	0.415	0.632	0.723	0.655	2.823	0.565	0.657	6.312	1.09	0.941

* #

* Urban minor arterial-Durham County-OP Peak

* File 23, Run 1, Scenario 70.

* #

* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.562	0.845	0.704	0.809	0.849	0.252	0.373	0.327	2.73	0.699
Composite NOX:	0.410	0.623	0.715	0.646	2.741	0.546	0.635	6.092	1.07	0.815

* #

* Urban collector-Durham County-OP Peak

* File 23, Run 1, Scenario 71.

```

* Urban collector mix and speeds

```

M615 Comment:

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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.558	0.842	0.701	0.806	0.838	0.249	0.368	0.320	2.71	0.697
Composite NOX:	0.411	0.625	0.716	0.648	2.759	0.548	0.638	6.123	1.08	0.781

* Urban local-Durham County-OP Peak

* Urban local-Durham County-OP Peak

* File 23, Run 1, Scenario 72.

* #

```
* 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
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.572	0.857	0.713	0.820	0.884	0.261	0.389	0.350	2.79	0.708
Composite NOX:	0.407	0.617	0.709	0.641	2.674	0.537	0.625	5.994	1.05	0.867

* #

* Rural other principle arterial 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3699	0.3563	0.1214		0.0424	0.0004	0.0019	0.1025	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.570	0.870	0.738	0.836	0.738	0.222	0.324	0.257	2.62	0.683
Composite NOX:	0.497	0.762	0.851	0.785	3.090	0.727	0.848	8.892	1.28	1.610

* #

* Rural minor arterial-Wake County-AM Peak

* File 24, Run 1, Scenario 3.

* #

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.601	0.910	0.771	0.875	0.795	0.237	0.349	0.292	2.65	0.728
Composite NOX:	0.481	0.733	0.823	0.756	2.863	0.578	0.673	6.462	1.10	1.197

* #

* Rural major collector-Wake County-AM Peak

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Wake County-AM Peak
* File 24, Run 1, Scenario 5.
* #####
* Rural minor collector mix and speeds
M615 Comment:
      User supplied VMT mix.
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban interstate-Wake County-AM Peak
* File 24, Run 1, Scenario 7.
* #####
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Composite NOX: 0.490 0.749 0.837 0.771 2.986 0.640 0.746 7.900 1.16 2.499

* * * * *

* Rural principle arterial-Wake County-PM Peak

* File 24, Run 1, Scenario 14.

* * * * *

* Rural other principle arterial 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3699	0.3563	0.1214		0.0424	0.0004	0.0019	0.1025	0.0053	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.570	0.870	0.738	0.836	0.738	0.222	0.324	0.257	2.62	0.683
Composite NOX:	0.497	0.762	0.851	0.785	3.090	0.727	0.848	8.892	1.28	1.610

* * * * *

* Rural minor arterial-Wake County-PM Peak

* File 24, Run 1, Scenario 15.

* * * * *

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.601	0.910	0.771	0.875	0.795	0.237	0.349	0.292	2.65	0.728
Composite NOX:	0.481	0.733	0.823	0.756	2.863	0.578	0.673	6.462	1.10	1.197

* * * * *

* Rural major collector-Wake County-PM Peak

* File 24, Run 1, Scenario 16.

* * * * *

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.604	0.914	0.774	0.878	0.803	0.239	0.352	0.297	2.66	0.740
Composite NOX:	0.480	0.731	0.820	0.754	2.844	0.572	0.665	6.391	1.09	1.057

* * * * *

* Rural minor collector-Wake County-PM Peak

* File 24, Run 1, Scenario 17.

* * * * *

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.608	0.917	0.777	0.882	0.811	0.241	0.356	0.302	2.67	0.744
Composite NOX:	0.479	0.729	0.818	0.751	2.822	0.565	0.657	6.316	1.09	1.056

* * * * *

* Rural local-Wake County-PM Peak

* File 24, Run 1, Scenario 18.

* * * * *

* 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

 Calendar Year: 2008

 Month: July

 Altitude: Low

 Minimum Temperature: 73.0 (F)

 Maximum Temperature: 89.0 (F)

 Minimum Rel. Hum.: 49.0 (%)

 Maximum Rel. Hum.: 96.0 (%)

 Barometric Pressure: 30.00 (inches Hg)

 Nominal Fuel RVP: 7.8 psi

 Weathered RVP: 7.5 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:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.604	0.914	0.774	0.878	0.803	0.239	0.352	0.297	2.66	0.741
Composite NOX:	0.480	0.731	0.820	0.754	2.844	0.572	0.665	6.390	1.09	1.057

* * * * *

* Urban interstate-Wake County-PM Peak

* File 24, Run 1, Scenario 19.

* * * * *

* Urban interstate mix and speeds

M615 Comment:

 User supplied VMT mix.

M581 Warning:

 The user supplied freeway average speed of 53.0 will be used for all hours of the day. 100% of VMT has been assigned to the 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: 2008

 Month: July

 Altitude: Low

 Minimum Temperature: 73.0 (F)

 Maximum Temperature: 89.0 (F)

 Minimum Rel. Hum.: 49.0 (%)

 Maximum Rel. Hum.: 96.0 (%)

 Barometric Pressure: 30.00 (inches Hg)

 Nominal Fuel RVP: 7.8 psi

 Weathered RVP: 7.5 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:	0.3540	0.3411	0.1163		0.0531	0.0004	0.0018	0.1283	0.0051	1.0000

VTM Distribution:0.3973 0.3825 0.1304 0.0239 0.0004 0.0020 0.0579 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.629 0.942 0.798 0.905 0.872 0.258 0.384 0.342 2.77 0.772
Composite NOX: 0.473 0.716 0.806 0.739 2.698 0.540 0.628 6.030 1.06 0.988

* * * * *
* Urban minor arterial-Wake County-PM Peak
* File 24, Run 1, Scenario 22.
* * * * *
* 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)

VTM Distribution:0.4072 0.3922 0.1336 0.0172 0.0004 0.0020 0.0415 0.0059 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.622 0.933 0.790 0.897 0.849 0.252 0.373 0.327 2.73 0.770
Composite NOX: 0.474 0.720 0.809 0.743 2.741 0.546 0.635 6.092 1.07 0.891

* * * * *
* Urban collector-Wake County-PM Peak
* File 24, Run 1, Scenario 23.
* * * * *
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)


```
* #####
* Rural principle arterial-Wake County-OP Peak
* File 24, Run 1, Scenario 26.
* #####
* Rural other principle arterial mix and speeds
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor arterial-Wake County-OP Peak
* File 24, Run 1, Scenario 27.
* #####
* Rural minor arterial mix and speeds
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.586	0.891	0.756	0.857	0.763	0.228	0.335	0.272	2.62	0.710
Composite NOX:	0.488	0.746	0.835	0.769	2.966	0.630	0.734	7.058	1.15	1.260

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.598	0.907	0.768	0.871	0.788	0.235	0.345	0.287	2.64	0.733
Composite NOX:	0.483	0.736	0.825	0.758	2.883	0.584	0.680	6.532	1.10	1.071

Exhaust I/M Program: No
Evap I/M Program: No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.604	0.914	0.774	0.878	0.803	0.239	0.352	0.297	2.66	0.740
Composite NOX:	0.480	0.731	0.820	0.754	2.843	0.572	0.665	6.391	1.09	1.063

```

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.

```

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.601	0.910	0.771	0.875	0.796	0.237	0.349	0.292	2.65	0.737
Composite NOX:	0.481	0.733	0.823	0.756	2.864	0.578	0.673	6.462	1.10	1.063

M581 Warning:

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.

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3540	0.3411	0.1163		0.0531	0.0004	0.0018	0.1283	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.556	0.849	0.721	0.817	0.727	0.219	0.320	0.251	3.11	0.658
Composite NOX:	0.509	0.782	0.871	0.804	3.238	0.932	1.090	11.243	1.45	2.172

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3855	0.3711	0.1264		0.0319	0.0004	0.0019	0.0772	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.562	0.858	0.728	0.825	0.730	0.220	0.321	0.252	2.90	0.687
Composite NOX:	0.504	0.773	0.863	0.796	3.175	0.830	0.970	10.076	1.38	1.479

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.608	0.917	0.777	0.882	0.811	0.241	0.356	0.302	2.67	0.746
Composite NOX:	0.479	0.729	0.818	0.751	2.823	0.565	0.657	6.312	1.09	1.019

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.608	0.917	0.777	0.882	0.811	0.241	0.356	0.302	2.67	0.754
Composite NOx:	0.479	0.729	0.818	0.751	2.823	0.565	0.657	6.311	1.09	0.908

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Fuel Sulfur Content: 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.551	0.842	0.715	0.810	0.726	0.219	0.320	0.251	3.31	0.610
Composite NOX:	0.514	0.790	0.879	0.813	3.298	1.040	1.217	12.479	1.52	3.583

* #
* Rural principle arterial-Durham County-AM Peak
* File 24, Run 1, Scenario 38.
* #
* Rural other principle arterial 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3699	0.3563	0.1214		0.0424	0.0004	0.0019	0.1025	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.570	0.870	0.738	0.836	0.738	0.222	0.324	0.257	2.62	0.683
Composite NOX:	0.497	0.762	0.851	0.785	3.090	0.727	0.848	8.892	1.28	1.610

* #
* Rural minor arterial-Durham County-AM Peak
* File 24, Run 1, Scenario 39.
* #
* Rural minor arterial 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 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)							
VTM Distribution:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.592	0.899	0.762	0.864	0.775	0.231	0.340	0.279	2.63	0.717
Composite NOX:	0.486	0.741	0.830	0.764	2.926	0.608	0.708	6.806	1.13	1.234

* #
* Rural major collector-Durham County-AM Peak
* File 24, Run 1, Scenario 40.
* #
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.595	0.903	0.765	0.868	0.782	0.233	0.343	0.283	2.63	0.730
Composite NOX:	0.484	0.739	0.827	0.761	2.905	0.596	0.694	6.673	1.11	1.082

* #
* Rural minor collector-Durham County-AM Peak
* File 24, Run 1, Scenario 41.
* #
* Rural minor 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

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.598	0.907	0.768	0.871	0.788	0.235	0.345	0.287	2.64	0.733
Composite NOX:	0.483	0.736	0.825	0.758	2.882	0.584	0.680	6.533	1.10	1.076

* #
* Rural local-Durham County-AM Peak
* File 24, Run 1, Scenario 42.
* #
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.608	0.917	0.777	0.882	0.811	0.241	0.356	0.302	2.67	0.744
Composite NOX:	0.479	0.729	0.818	0.751	2.823	0.565	0.657	6.314	1.09	1.049

* #
* Urban interstate-Durham County-AM Peak
* File 24, Run 1, Scenario 43.
* #
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3540	0.3411	0.1163		0.0531	0.0004	0.0018	0.1283	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.570	0.870	0.738	0.836	0.738	0.222	0.324	0.257	2.62	0.670
Composite NOX:	0.497	0.762	0.851	0.785	3.090	0.727	0.848	8.890	1.28	1.848

```
* #####  
* Urban freeway-Durham County-AM Peak  
* File 24, Run 1, Scenario 44.  
* #####  
* 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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3855	0.3711	0.1264		0.0319	0.0004	0.0019	0.0772	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.595	0.903	0.765	0.868	0.781	0.233	0.343	0.283	2.63	0.723
Composite NOX:	0.484	0.739	0.828	0.761	2.905	0.596	0.694	7.393	1.11	1.233

```
* #####
* Urban principle arterial-Durham County-AM Peak
* File 24, Run 1, Scenario 45.
* #####
* Urban principle arterial 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban minor arterial-Durham County-AM Peak
* File 24, Run 1, Scenario 46.
* #####
* 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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban collector-Durham County-AM Peak
* File 24, Run 1, Scenario 47.
* #####
* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

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:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.625	0.938	0.794	0.901	0.860	0.255	0.378	0.334	2.75	0.776
Composite NOX:	0.473	0.718	0.808	0.741	2.719	0.543	0.632	6.063	1.06	0.853

* #

* Urban local-Durham County-AM Peak

* File 24, Run 1, Scenario 48.

* #

* 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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
MT Distribution:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.639	0.954	0.807	0.917	0.898	0.265	0.396	0.358	2.82	0.786
Composite NOX:	0.475	0.717	0.807	0.740	2.655	0.538	0.626	6.003	1.05	0.945

* #

* Rural interstate-Durham County-PM Peak

* File 24, Run 1, Scenario 49.

* #

* 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)

```

Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.555	0.847	0.719	0.814	0.726	0.219	0.320	0.251	3.18	0.612
Composite NOX:	0.510	0.785	0.874	0.807	3.258	0.969	1.134	11.668	1.47	3.394

* #
 * Rural principle arterial-Durham County-PM Peak
 * File 24, Run 1, Scenario 50.
 * #
 * Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 54.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3699	0.3563	0.1214		0.0424	0.0004	0.0019	0.1025	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.572	0.873	0.741	0.840	0.742	0.223	0.326	0.259	2.62	0.685
Composite NOX:	0.496	0.760	0.848	0.782	3.071	0.711	0.829	8.709	1.26	1.588

* #
 * Rural minor arterial-Durham County-PM Peak
 * File 24, Run 1, Scenario 51.
 * #
 * Rural minor arterial 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: 2008
 Month: July
 Altitude: Low

Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3819	0.3679	0.1254		0.0342	0.0004	0.0019	0.0828	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.586	0.891	0.756	0.857	0.763	0.228	0.335	0.272	2.62	0.710
Composite NOX:	0.488	0.746	0.835	0.769	2.966	0.630	0.734	7.058	1.15	1.260

* #

* Rural major collector-Durham County-PM Peak

* File 24, Run 1, Scenario 52.

* #

* Rural major 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.592	0.899	0.762	0.864	0.776	0.231	0.340	0.279	2.63	0.726
Composite NOX:	0.486	0.741	0.830	0.764	2.927	0.608	0.708	6.807	1.13	1.094

* #

* Rural minor collector-Durham County-PM Peak

* File 24, Run 1, Scenario 53.

* #

* Rural minor 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

Calendar Year: 2008
Month: July

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural local-Durham County-PM Peak
* File 24, Run 1, Scenario 54.
* #####
* 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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban interstate-Durham County-PM Peak
* File 24, Run 1, Scenario 55.
* #####
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####  
* Urban freeway-Durham County-PM Peak  
* File 24, Run 1, Scenario 56.  
* #####  
* Urban freeway 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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban principle arterial-Durham County-PM Peak
* File 24, Run 1, Scenario 57.
* #####
* Urban principle arterial 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
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.629	0.942	0.798	0.905	0.872	0.258	0.384	0.342	2.77	0.772
Composite NOx:	0.473	0.716	0.806	0.739	2.698	0.540	0.628	6.030	1.06	0.988

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.634	0.947	0.802	0.910	0.885	0.261	0.390	0.350	2.79	0.784
Composite NOx:	0.472	0.714	0.804	0.737	2.675	0.537	0.625	5.995	1.05	0.882

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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)							
VTM Distribution:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.622	0.933	0.790	0.897	0.848	0.252	0.373	0.326	2.73	0.772
Composite NOX:	0.474	0.720	0.809	0.743	2.739	0.546	0.635	6.093	1.07	0.856

* #
 * Urban local-Durham County-PM Peak
 * File 24, Run 1, Scenario 60.
 * #
 * 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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)							
VTM Distribution:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.639	0.954	0.807	0.917	0.898	0.265	0.396	0.358	2.82	0.786
Composite NOX:	0.475	0.717	0.807	0.740	2.655	0.538	0.626	6.003	1.05	0.945

* #
 * Rural interstate-Durham County-OP Peak
 * File 24, Run 1, Scenario 61.
 * #
 * 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.551	0.842	0.715	0.810	0.726	0.219	0.320	0.251	3.31	0.610
Composite NOX:	0.514	0.790	0.879	0.813	3.298	1.040	1.217	12.479	1.52	3.583

* * * * *
* Rural principle arterial-Durham County-OP Peak
* File 24, Run 1, Scenario 62.
* * * * *
* Rural other principle arterial 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3699	0.3563	0.1214		0.0424	0.0004	0.0019	0.1025	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.570	0.870	0.738	0.836	0.738	0.222	0.324	0.257	2.62	0.683
Composite NOX:	0.497	0.762	0.851	0.785	3.090	0.727	0.848	8.892	1.28	1.610

* * * * *
* Rural minor arterial-Durham County-OP Peak
* File 24, Run 1, Scenario 63.
* * * * *
* Rural minor arterial mix and speeds
M615 Comment:
User supplied VMT mix.

M583 Warning:
The user supplied arterial average speed of 52.0
will be used for all hours of the day. 100% of VMT

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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3973	0.3825	0.1304		0.0239	0.0004	0.0020	0.0579	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.608	0.917	0.777	0.882	0.811	0.241	0.356	0.302	2.67	0.746
Composite NOX:	0.479	0.729	0.818	0.751	2.823	0.565	0.657	6.312	1.09	1.016

* * * * *
 * Urban minor arterial-Durham County-OP Peak
 * File 24, Run 1, Scenario 70.
 * * * * *
 * 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.4072	0.3922	0.1336		0.0172	0.0004	0.0020	0.0415	0.0059	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.622	0.933	0.790	0.897	0.849	0.252	0.373	0.327	2.73	0.770
Composite NOX:	0.474	0.720	0.809	0.743	2.741	0.546	0.635	6.092	1.07	0.891

* * * * *
 * Urban collector-Durham County-OP Peak
 * File 24, Run 1, Scenario 71.
 * * * * *
 * Urban collector 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.4107	0.3954	0.1348		0.0148	0.0004	0.0021	0.0360	0.0059	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.618	0.929	0.787	0.893	0.838	0.249	0.368	0.320	2.71	0.768
Composite NOX:	0.475	0.722	0.811	0.744	2.759	0.548	0.638	6.123	1.08	0.859

* * * * *

* Urban local-Durham County-OP Peak

* File 24, Run 1, Scenario 72.

* * * * *

* 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.4013	0.3863	0.1317		0.0212	0.0004	0.0020	0.0513	0.0058	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.634	0.947	0.802	0.910	0.884	0.261	0.389	0.350	2.79	0.779
Composite NOX:	0.472	0.714	0.804	0.737	2.674	0.537	0.625	5.994	1.05	0.943

* * * * *

* Rural interstate-Granville(Modeled)-AM Peak

* File 24, Run 1, Scenario 73.

* * * * *

* 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

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.551	0.842	0.715	0.810	0.726	0.219	0.320	0.251	3.31	0.610
Composite NOX:	0.514	0.790	0.879	0.813	3.298	1.040	1.217	12.479	1.52	3.583

* * * * *

* Rural major collector-Granville(Modeled)-AM Peak

* File 24, Run 1, Scenario 74.

* * * * *

* Rural major collector 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: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.618	0.929	0.787	0.893	0.839	0.249	0.369	0.320	2.71	0.756
Composite NOX:	0.475	0.722	0.811	0.744	2.760	0.548	0.638	6.125	1.08	1.032

* * * * *

* Rural minor collector-Granville(Modeled)-AM Peak

* File 24, Run 1, Scenario 75.

* * * * *

* Rural minor collector 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3936	0.3789	0.1292		0.0265	0.0004	0.0020	0.0638	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.601	0.910	0.771	0.875	0.795	0.237	0.349	0.292	2.65	0.736
Composite NOX:	0.481	0.733	0.823	0.756	2.863	0.578	0.673	6.464	1.10	1.070

* #

* Rural local-Granville(Modeled)-AM Peak

* File 24, Run 1, Scenario 76.

* #

* Rural local 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: 2008
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3939	0.3797	0.1295		0.0260	0.0004	0.0020	0.0629	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.592	0.899	0.762	0.864	0.776	0.231	0.340	0.279	2.63	0.726
Composite NOX:	0.486	0.741	0.830	0.764	2.927	0.608	0.708	6.806	1.13	1.093

* #

* Rural interstate-Granville(Modeled)-PM Peak

* File 24, Run 1, Scenario 77.

```
* Rural interstate mix and speeds
```

M615 Comment:

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:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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)							
VTM Distribution:	0.2949	0.2842	0.0970		0.0930	0.0003	0.0015	0.2249	0.0043	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.551	0.842	0.715	0.810	0.726	0.219	0.320	0.251	3.31	0.610
Composite NOx:	0.514	0.790	0.879	0.813	3.298	1.040	1.217	12.479	1.52	3.583

* Rural major collector-Granville(Modeled)-PM Peak

* File 24, Run 1, Scenario 78.

* #

```

* Rural major collector 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
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3940	0.3796	0.1293		0.0260	0.0004	0.0020	0.0631	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.622	0.933	0.790	0.897	0.849	0.252	0.373	0.327	2.73	0.760
Composite NOX:	0.474	0.720	0.809	0.743	2.740	0.546	0.635	6.096	1.07	1.028

* Rural minor collector-Granville(Modeled)-PM Peak

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural local-Granville(Modeled)-PM Peak
* File 24, Run 1, Scenario 80.
* #####
* Rural local mix and speeds
M615 Comment:
User supplied VMT mix.
```

Calendar Year:	2008
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

M 96 Warning: 66.0 speed reduced to 65 mph maximum

```
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

```
* #####
* Rural major collector-Granville(Modeled)-OP Peak
* File 24, Run 1, Scenario 82.
* #####
* Rural major collector mix and speeds
```

```
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.
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Composite NOX:	0.486	0.741	0.830	0.764	2.927	0.608	0.708	6.806	1.13	1.093
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Calendar Year: 2011										
Month: July										
Altitude: Low										
Minimum Temperature: 73.0 (F)										
Maximum Temperature: 89.0 (F)										
Minimum Rel. Hum.: 49.0 (%)										
Maximum Rel. Hum.: 96.0 (%)										
Barometric Pressure: 30.00 (inches Hg)										
Nominal Fuel RVP: 7.8 psi										
Weathered RVP: 7.5 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:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.375	0.645	0.514	0.611	0.565	0.106	0.195	0.217	2.56	0.463
Composite NOX:	0.295	0.484	0.532	0.496	1.974	0.302	0.477	5.354	1.26	1.675

```

M615 Comment:      User supplied VMT mix.
M581 Warning:      The user supplied freeway average speed of 54.0
                    will be used for all hours of the day. 100% of VMT
                    has been assigned to the freeway 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	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3332	0.3837	0.1308		0.0424	0.0003	0.0020	0.1025	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.375	0.645	0.514	0.611	0.566	0.106	0.195	0.217	2.56	0.499
Composite NOX:	0.295	0.484	0.531	0.496	1.974	0.302	0.477	5.356	1.26	0.994

```
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
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.395	0.669	0.534	0.635	0.613	0.116	0.215	0.253	2.61	0.530
Composite NOx:	0.282	0.462	0.509	0.474	1.814	0.239	0.378	3.974	1.09	0.747

June 7, 2007

```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban interstate-Wake County-AM Peak
* File 25, Run 1, Scenario 7.
* #####
* 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

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Composite NOX: 0.293 0.481 0.528 0.493 1.948 0.287 0.454 5.106 1.21 1.101

* * * * *

* Urban freeway-Wake County-AM Peak

* File 25, Run 1, Scenario 8.

* * * * *

* Urban freeway mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.375	0.645	0.514	0.611	0.566	0.106	0.195	0.217	2.56	0.507
Composite NOX:	0.295	0.484	0.532	0.496	1.974	0.302	0.477	5.354	1.26	0.853

* * * * *

* Urban principle arterial-Wake County-AM Peak

* File 25, Run 1, Scenario 9.

* * * * *

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.415	0.691	0.552	0.656	0.671	0.129	0.241	0.300	2.76	0.560
Composite NOX:	0.279	0.453	0.500	0.465	1.707	0.228	0.360	3.778	1.05	0.623

* * * * *

* Urban minor arterial-Wake County-AM Peak

* File 25, Run 1, Scenario 10.

* * * * *

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
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Composite Emission Factors (g/mi):

Composite VOC:	0.404	0.679	0.542	0.644	0.639	0.122	0.226	0.274	2.67	0.551
Composite NOX:	0.279	0.455	0.503	0.467	1.762	0.231	0.365	3.838	1.07	0.564

* * * * *

* Urban collector-Wake County-AM Peak

* File 25, Run 1, Scenario 11.

* * * * *

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000
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Composite Emission Factors (g/mi):
 Composite VOC: 0.415 0.691 0.552 0.656 0.671 0.129 0.241 0.300 2.76 0.565
 Composite NOX: 0.279 0.453 0.500 0.465 1.706 0.228 0.360 3.779 1.05 0.536

* * * * *
 * Urban local-Wake County-AM Peak
 * File 25, Run 1, Scenario 12.
 * * * * *
 * 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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.409 0.684 0.546 0.649 0.654 0.125 0.233 0.286 2.71 0.554
 Composite NOX: 0.278 0.453 0.500 0.465 1.734 0.229 0.361 3.795 1.06 0.598

* * * * *
 * Rural interstate-Wake County-PM Peak
 * File 25, Run 1, Scenario 13.
 * * * * *
 * Rural interstate 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000

VTM Distribution:0.3441 0.3962 0.1351 0.0342 0.0003 0.0020 0.0828 0.0053 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.393 0.667 0.532 0.633 0.607 0.115 0.213 0.248 2.60 0.527
Composite NOX: 0.283 0.464 0.511 0.476 1.827 0.242 0.382 4.023 1.09 0.752

* * * * *
* Rural major collector-Wake County-PM Peak
* File 25, Run 1, Scenario 16.
* * * * *
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:0.3551 0.4086 0.1393 0.0261 0.0003 0.0021 0.0630 0.0055 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.398 0.672 0.536 0.637 0.619 0.117 0.218 0.257 2.62 0.537
Composite NOX: 0.281 0.460 0.507 0.472 1.801 0.236 0.373 3.924 1.08 0.660

* * * * *
* Rural minor collector-Wake County-PM Peak
* File 25, Run 1, Scenario 17.
* * * * *
* Rural minor 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)

Composite Emission Factors (g/mi):										
Composite VOC:	0.412	0.687	0.548	0.652	0.662	0.127	0.237	0.292	2.73	0.556
Composite NOX:	0.277	0.451	0.499	0.463	1.718	0.228	0.359	3.771	1.05	0.622

```
* #####
* Urban minor arterial-Wake County-PM Peak
* File 25, Run 1, Scenario 22.
* #####
* 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
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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):										
Composite VOC:	0.404	0.679	0.542	0.644	0.639	0.122	0.226	0.274	2.67	0.551
Composite NOX:	0.279	0.455	0.503	0.467	1.762	0.231	0.365	3.838	1.07	0.564

```
* #####
* Urban collector-Wake County-PM Peak
* File 25, Run 1, Scenario 23.
* #####
* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban local-Wake County-PM Peak
* File 25, Run 1, Scenario 24.
* #####
* Urban local mix and speeds
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

[illegible]

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.370	0.637	0.508	0.604	0.556	0.105	0.192	0.211	2.83	0.457
Composite NOx:	0.300	0.494	0.542	0.506	2.040	0.353	0.559	6.231	1.38	1.888

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3332	0.3837	0.1308		0.0424	0.0003	0.0020	0.1025	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.373	0.641	0.511	0.608	0.561	0.106	0.194	0.214	2.63	0.497
Composite NOX:	0.297	0.488	0.535	0.500	2.001	0.320	0.507	5.674	1.31	1.031

Exhaust I/M Program: Yes
Evap I/M Program: Yes

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.389	0.663	0.529	0.629	0.597	0.113	0.208	0.240	2.57	0.523
Composite NOX:	0.285	0.467	0.514	0.479	1.852	0.247	0.391	4.113	1.10	0.763

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.393	0.667	0.532	0.633	0.608	0.115	0.213	0.248	2.60	0.533
Composite NOX:	0.283	0.464	0.511	0.476	1.828	0.242	0.382	4.023	1.09	0.669

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:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.395	0.669	0.534	0.635	0.613	0.116	0.215	0.253	2.61	0.535
Composite NOX:	0.282	0.462	0.509	0.474	1.815	0.239	0.378	3.973	1.09	0.668

* #
 * Rural local-Wake County-OP Peak
 * File 25, Run 1, Scenario 30.
 * #
 * 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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.393	0.667	0.532	0.633	0.608	0.115	0.213	0.248	2.60	0.533
Composite NOX:	0.283	0.464	0.511	0.476	1.828	0.242	0.382	4.023	1.09	0.668

* #
 * Urban interstate-Wake County-OP Peak
 * File 25, Run 1, Scenario 31.
 * #
 * Urban 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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTM Distribution:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.371	0.638	0.509	0.605	0.558	0.105	0.193	0.212	2.77	0.487
Composite NOX:	0.299	0.492	0.540	0.504	2.028	0.342	0.542	6.050	1.35	1.235

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.371	0.638	0.509	0.605	0.558	0.105	0.193	0.212	2.77	0.503
Composite NOx:	0.299	0.492	0.540	0.504	2.028	0.342	0.542	6.051	1.35	0.915

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.404	0.679	0.542	0.644	0.638	0.122	0.226	0.273	2.67	0.547
Composite NOX:	0.279	0.455	0.503	0.467	1.761	0.231	0.365	3.834	1.07	0.629

* #
* Urban minor arterial-Wake County-OP Peak
* File 25, Run 1, Scenario 34.
* #
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.400	0.674	0.538	0.639	0.625	0.119	0.220	0.262	2.63	0.546
Composite NOX:	0.280	0.458	0.505	0.470	1.786	0.233	0.368	3.875	1.08	0.567

* #
* Urban collector-Wake County-OP Peak
* File 25, Run 1, Scenario 35.
* #
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.409	0.684	0.546	0.649	0.653	0.125	0.233	0.286	2.71	0.558
Composite NOX:	0.278	0.453	0.500	0.465	1.733	0.229	0.361	3.795	1.06	0.537

* #

* Urban local-Wake County-OP Peak

* File 25, Run 1, Scenario 36.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.407	0.681	0.544	0.646	0.646	0.123	0.230	0.280	2.69	0.551
Composite NOX:	0.278	0.454	0.502	0.466	1.748	0.230	0.363	3.816	1.06	0.601

* #

* Rural interstate-Durham County-AM Peak

* File 25, Run 1, Scenario 37.

* #

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.366	0.630	0.502	0.598	0.553	0.105	0.192	0.210	3.18	0.455
Composite NOX:	0.306	0.504	0.552	0.516	2.107	0.427	0.678	7.512	1.49	2.185

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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):										
Composite VOC:	0.375	0.645	0.514	0.611	0.566	0.106	0.195	0.217	2.56	0.499
Composite NOX:	0.295	0.484	0.531	0.496	1.974	0.302	0.477	5.356	1.26	0.994

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

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:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.386	0.659	0.525	0.625	0.588	0.111	0.205	0.233	2.57	0.518
Composite NOX:	0.287	0.471	0.518	0.483	1.881	0.258	0.407	4.289	1.13	0.782

```
* #####
* Rural major collector-Durham County-AM Peak
* File 25, Run 1, Scenario 40.
* #####
* Rural major collector mix and speeds
M615 Comment:
```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.388	0.661	0.527	0.627	0.593	0.112	0.206	0.237	2.57	0.526
Composite NOX:	0.286	0.469	0.516	0.481	1.867	0.253	0.399	4.203	1.11	0.684

```
* #####
* Rural minor collector-Durham County-AM Peak
* File 25, Run 1, Scenario 41.
* #####
* Rural minor 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
```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.389	0.663	0.529	0.629	0.598	0.113	0.208	0.240	2.57	0.528
Composite NOX:	0.285	0.467	0.514	0.479	1.853	0.247	0.391	4.111	1.10	0.682

* #

* Rural local-Durham County-AM Peak

* File 25, Run 1, Scenario 42.

* #

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.398	0.672	0.536	0.637	0.619	0.117	0.218	0.257	2.62	0.538
Composite NOX:	0.281	0.460	0.507	0.472	1.801	0.236	0.373	3.924	1.08	0.659

* #

* Urban interstate-Durham County-AM Peak

* File 25, Run 1, Scenario 43.

* #

* Urban interstate mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

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:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.376	0.647	0.516	0.613	0.568	0.107	0.196	0.219	2.56	0.493
Composite NOX:	0.294	0.482	0.530	0.494	1.961	0.294	0.466	5.232	1.23	1.111

```
* #####
* Urban freeway-Durham County-AM Peak
* File 25, Run 1, Scenario 44.
* #####
* Urban freeway 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
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.386	0.659	0.525	0.625	0.589	0.111	0.205	0.234	2.57	0.520
Composite NOX:	0.287	0.471	0.518	0.483	1.881	0.258	0.407	4.600	1.13	0.782

```
* #####
* Urban principle arterial-Durham County-AM Peak
* File 25, Run 1, Scenario 45.
* #####
* 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
```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.415	0.691	0.552	0.656	0.671	0.129	0.241	0.300	2.76	0.560
Composite NOX:	0.279	0.453	0.500	0.465	1.707	0.228	0.360	3.778	1.05	0.623

* #

* Urban minor arterial-Durham County-AM Peak

* File 25, Run 1, Scenario 46.

* #

* 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
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
VMT Distribution:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.415	0.691	0.552	0.656	0.671	0.129	0.241	0.300	2.76	0.564
Composite NOX:	0.279	0.453	0.500	0.465	1.708	0.228	0.360	3.782	1.05	0.559

* #

* Urban collector-Durham County-AM Peak

* File 25, Run 1, Scenario 47.

* #

* Urban collector mix and speeds

M615 Comment:

1015 COMMENTS: 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: 73.0 (F)

```

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.407	0.681	0.544	0.646	0.645	0.123	0.230	0.280	2.69	0.555
Composite NOX:	0.278	0.454	0.501	0.466	1.747	0.230	0.363	3.815	1.06	0.539

* #

* Urban local-Durham County-AM Peak

* File 25, Run 1, Scenario 48.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.415	0.691	0.552	0.656	0.671	0.129	0.241	0.300	2.76	0.562
Composite NOX:	0.279	0.453	0.500	0.465	1.707	0.228	0.360	3.779	1.05	0.597

* #

* Rural interstate-Durham County-PM Peak

* File 25, Run 1, Scenario 49.

* #

* 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

Calendar Year: 2011
Month: July
Altitude: Low

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural principle arterial-Durham County-PM Peak
* File 25, Run 1, Scenario 50.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 54.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
M 48 Warning:
    there are no sales for vehicle class HDGV8b
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor arterial-Durham County-PM Peak
* File 25, Run 1, Scenario 51.
* #####
* Rural minor arterial 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
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.382	0.655	0.522	0.621	0.580	0.109	0.201	0.227	2.56	0.514
Composite NOX:	0.289	0.475	0.522	0.487	1.907	0.267	0.422	4.450	1.15	0.799

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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):										
Composite VOC:	0.388	0.661	0.527	0.627	0.593	0.112	0.206	0.237	2.57	0.526
Composite NOX:	0.286	0.469	0.516	0.481	1.867	0.253	0.399	4.203	1.11	0.686

Calendar Year: 2011

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural local-Durham County-PM Peak
* File 25, Run 1, Scenario 54.
* #####
* 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

```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban interstate-Durham County-PM Peak
* File 25, Run 1, Scenario 55.
* #####
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.376	0.647	0.516	0.613	0.568	0.107	0.196	0.219	2.56	0.493
Composite NOX:	0.294	0.482	0.530	0.494	1.961	0.294	0.466	5.232	1.23	1.119

* * * * *
 * Urban freeway-Durham County-PM Peak
 * File 25, Run 1, Scenario 56.
 * * * * *
 * 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.388	0.661	0.527	0.627	0.593	0.112	0.206	0.237	2.57	0.522
Composite NOX:	0.286	0.469	0.516	0.481	1.867	0.253	0.399	4.514	1.11	0.773

* * * * *
 * Urban principle arterial-Durham County-PM Peak
 * File 25, Run 1, Scenario 57.
 * * * * *
 * Urban principle arterial 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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.412	0.687	0.548	0.652	0.662	0.127	0.237	0.292	2.73	0.556
Composite NOX:	0.277	0.451	0.499	0.463	1.718	0.228	0.359	3.771	1.05	0.622

```
* # # # # # # # # # # # # # # # # # #  
* Urban minor arterial-Durham County-PM Peak  
* File 25, Run 1, Scenario 58.  
* # # # # # # # # # # # # # # # # # #  
* Urban minor arterial 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
```

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.412	0.687	0.549	0.652	0.662	0.127	0.237	0.293	2.73	0.560
Composite NOX:	0.277	0.451	0.499	0.463	1.719	0.228	0.359	3.776	1.05	0.557

```
* #####
* Urban collector-Durham County-PM Peak
* File 25, Run 1, Scenario 59.
* #####
* Urban collector 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.404	0.679	0.542	0.644	0.638	0.122	0.226	0.274	2.67	0.552
Composite NOX:	0.279	0.455	0.503	0.467	1.760	0.231	0.365	3.835	1.07	0.541

* #

* Urban local-Durham County-PM Peak

* File 25, Run 1, Scenario 60.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.415	0.691	0.552	0.656	0.671	0.129	0.241	0.300	2.76	0.562
Composite NOX:	0.279	0.453	0.500	0.465	1.707	0.228	0.360	3.779	1.05	0.597

* #

* Rural interstate-Durham County-OP Peak

* File 25, Run 1, Scenario 61.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.365	0.629	0.501	0.597	0.552	0.105	0.192	0.210	3.24	0.454
Composite NOX:	0.307	0.506	0.554	0.518	2.120	0.442	0.702	7.767	1.52	2.245

* * * * *

* Rural principle arterial-Durham County-OP Peak

* File 25, Run 1, Scenario 62.

* * * * *

* Rural other principle arterial 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3332	0.3837	0.1308		0.0424	0.0003	0.0020	0.1025	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.374	0.643	0.513	0.610	0.563	0.106	0.194	0.215	2.56	0.498
Composite NOX:	0.296	0.486	0.533	0.498	1.986	0.308	0.488	5.473	1.28	1.008

* * * * *

* Rural minor arterial-Durham County-OP Peak

* File 25, Run 1, Scenario 63.

* * * * *

* Rural minor arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

The user supplied arterial average speed of 52.0

will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.378	0.648	0.517	0.615	0.571	0.108	0.197	0.221	2.56	0.509
Composite NOX:	0.293	0.481	0.528	0.493	1.947	0.287	0.454	4.794	1.21	0.833

* #

* Rural major collector-Durham County-OP Peak

* File 25, Run 1, Scenario 64.

* #

* Rural major 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.386	0.659	0.525	0.625	0.589	0.111	0.205	0.234	2.57	0.524
Composite NOX:	0.287	0.471	0.518	0.483	1.881	0.258	0.407	4.289	1.13	0.693

* #

* Rural minor collector-Durham County-OP Peak

* File 25, Run 1, Scenario 65.

* #

* Rural minor collector mix and speeds

M615 Comment:

User supplied VMT mix.

M583 Warning:

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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.370	0.637	0.508	0.604	0.557	0.105	0.192	0.211	2.83	0.486
Composite NOX:	0.300	0.494	0.542	0.506	2.041	0.353	0.559	6.231	1.38	1.260

* * * * *
 * Urban freeway-Durham County-OP Peak
 * File 25, Run 1, Scenario 68.
 * * * * *
 * Urban freeway mix and speeds
 M615 Comment:
 User supplied VMT mix.

M581 Warning:
 The user supplied freeway average speed of 53.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.376	0.647	0.516	0.613	0.568	0.107	0.196	0.219	2.56	0.509
Composite NOX:	0.294	0.482	0.530	0.494	1.961	0.294	0.466	5.232	1.23	0.842

* * * * *
 * Urban principle arterial-Durham County-OP Peak
 * File 25, Run 1, Scenario 69.
 * * * * *
 * 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.404	0.679	0.542	0.644	0.638	0.122	0.226	0.273	2.67	0.547
Composite NOX:	0.279	0.455	0.503	0.467	1.761	0.231	0.365	3.834	1.07	0.629

* * * * *

* Urban minor arterial-Durham County-OP Peak

* File 25, Run 1, Scenario 70.

* * * * *

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.407	0.681	0.544	0.646	0.646	0.123	0.230	0.280	2.69	0.554
Composite NOX:	0.278	0.454	0.502	0.466	1.748	0.230	0.363	3.819	1.06	0.562

* * * * *

* Urban collector-Durham County-OP Peak

* File 25, Run 1, Scenario 71.

* * * * *

* Urban collector 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.402	0.676	0.540	0.642	0.631	0.120	0.223	0.268	2.65	0.550
Composite NOX:	0.280	0.457	0.504	0.469	1.773	0.232	0.367	3.854	1.08	0.543

* * * * *
 * Urban local-Durham County-OP Peak
 * File 25, Run 1, Scenario 72.
 * * * * *
 * 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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.412	0.687	0.549	0.652	0.662	0.127	0.237	0.293	2.73	0.557
Composite NOX:	0.277	0.451	0.499	0.463	1.719	0.228	0.359	3.773	1.05	0.596

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3332	0.3837	0.1308		0.0424	0.0003	0.0020	0.1025	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.436	0.732	0.594	0.697	0.566	0.106	0.195	0.217	2.56	0.563
Composite NOX:	0.369	0.596	0.630	0.605	1.974	0.302	0.477	5.356	1.26	1.074

* #

* Rural minor arterial-Wake County-AM Peak

* File 26, Run 1, Scenario 3.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.462	0.765	0.622	0.728	0.613	0.116	0.215	0.253	2.61	0.602
Composite NOX:	0.357	0.572	0.607	0.581	1.814	0.239	0.378	3.974	1.09	0.829

* #

* Rural major collector-Wake County-AM Peak

* File 26, Run 1, Scenario 4.

* #

* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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)							
VTM Distribution:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.459	0.762	0.619	0.726	0.608	0.115	0.213	0.248	2.60	0.607
Composite NOX:	0.357	0.574	0.609	0.583	1.828	0.242	0.382	4.023	1.09	0.755

* #

* Rural minor collector-Wake County-AM Peak

* File 26, Run 1, Scenario 5.

* #

* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.462	0.765	0.622	0.728	0.613	0.116	0.215	0.253	2.61	0.609
Composite NOX:	0.357	0.572	0.607	0.581	1.815	0.239	0.378	3.973	1.09	0.753

* #

* Rural local-Wake County-AM Peak

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban interstate-Wake County-AM Peak
* File 26, Run 1, Scenario 7.
* #####
* Urban interstate mix and speeds
* M615 Comment:
      User supplied VMT mix.
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

* ##

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban principle arterial-Wake County-AM Peak
* File 26, Run 1, Scenario 9.
* #####
* 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
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

 * #
 * Rural principle arterial-Wake County-PM Peak
 * File 26, Run 1, Scenario 14.
 * #
 * Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 54.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3332	0.3837	0.1308		0.0424	0.0003	0.0020	0.1025	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.436	0.732	0.594	0.697	0.566	0.106	0.195	0.217	2.56	0.563
Composite NOX:	0.369	0.596	0.630	0.605	1.974	0.302	0.477	5.356	1.26	1.074

* #
 * Rural minor arterial-Wake County-PM Peak
 * File 26, Run 1, Scenario 15.
 * #
 * 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

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.459	0.762	0.619	0.726	0.607	0.115	0.213	0.248	2.60	0.599

Composite Emission Factors (g/mi):
 Composite VOC: 0.439 0.737 0.598 0.702 0.571 0.108 0.197 0.221 2.56 0.557
 Composite NOX: 0.367 0.592 0.626 0.601 1.948 0.287 0.454 5.106 1.21 1.178

* * * * *
 * Urban freeway-Wake County-PM Peak
 * File 26, Run 1, Scenario 20.
 * * * * *
 * Urban freeway mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 54.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.436 0.732 0.594 0.697 0.566 0.106 0.195 0.217 2.56 0.574
 Composite NOX: 0.369 0.596 0.630 0.605 1.974 0.302 0.477 5.354 1.26 0.937

* * * * *
 * Urban principle arterial-Wake County-PM Peak
 * File 26, Run 1, Scenario 21.
 * * * * *
 * Urban principle arterial 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.482   0.787   0.641   0.750   0.662   0.127   0.237   0.292   2.73   0.635
Composite NOX:   0.352   0.561   0.597   0.570   1.718   0.228   0.359   3.771   1.05   0.708
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* Urban minor arterial-Wake County-PM Peak

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* File 26, Run 1, Scenario 22.

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* Urban minor arterial mix and speeds

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M615 Comment:

```

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    User supplied VMT mix.

```

```

M583 Warning:

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```

    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

```

```

        Calendar Year: 2011
        Month: July
        Altitude: Low
        Minimum Temperature: 73.0 (F)
        Maximum Temperature: 89.0 (F)
        Minimum Rel. Hum.: 49.0 (%)
        Maximum Rel. Hum.: 96.0 (%)
        Barometric Pressure: 30.00 (inches Hg)
        Nominal Fuel RVP: 7.8 psi
        Weathered RVP: 7.5 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:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000

```

-----
Composite Emission Factors (g/mi):
Composite VOC:   0.473   0.777   0.632   0.740   0.639   0.122   0.226   0.274   2.67   0.630
Composite NOX:   0.353   0.566   0.601   0.575   1.762   0.231   0.365   3.838   1.07   0.652
-----

```

```

* * * * *

```

```

* Urban collector-Wake County-PM Peak

```

```

* File 26, Run 1, Scenario 23.

```

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* * * * *

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```

* 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: 73.0 (F)
        Maximum Temperature: 89.0 (F)
        Minimum Rel. Hum.: 49.0 (%)
        Maximum Rel. Hum.: 96.0 (%)
        Barometric Pressure: 30.00 (inches Hg)
        Nominal Fuel RVP: 7.8 psi
        Weathered RVP: 7.5 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)							

VTM Distribution:0.3702 0.4258 0.1451 0.0148 0.0003 0.0022 0.0359 0.0057 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.482 0.787 0.641 0.750 0.661 0.127 0.237 0.293 2.73 0.643
Composite NOX: 0.352 0.561 0.597 0.570 1.718 0.228 0.359 3.773 1.05 0.624

* * * * *
* Urban local-Wake County-PM Peak
* File 26, Run 1, Scenario 24.
* * * * *
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)

VTM Distribution:0.3615 0.4160 0.1419 0.0212 0.0003 0.0021 0.0514 0.0056 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.478 0.784 0.638 0.746 0.654 0.125 0.233 0.286 2.71 0.634
Composite NOX: 0.352 0.563 0.598 0.572 1.734 0.229 0.361 3.795 1.06 0.685

* * * * *
* Rural interstate-Wake County-OP Peak
* File 26, Run 1, Scenario 25.
* * * * *
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)


```
* #####
* Rural major collector-Wake County-OP Peak
* File 26, Run 1, Scenario 28.
* #####
* Rural major collector mix and speeds
M615 Comment:
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor collector-Wake County-OP Peak
* File 26, Run 1, Scenario 29.
* #####
* Rural minor collector mix and speeds
M615 Comment:
```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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)							
VTM Distribution:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.462	0.765	0.622	0.728	0.613	0.116	0.215	0.253	2.61	0.609
Composite NOX:	0.357	0.572	0.607	0.581	1.815	0.239	0.378	3.973	1.09	0.753

* * * * *

* Rural local-Wake County-OP Peak

* File 26, Run 1, Scenario 30.

* * * * *

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.459	0.762	0.619	0.726	0.608	0.115	0.213	0.248	2.60	0.607
Composite NOX:	0.357	0.574	0.609	0.583	1.828	0.242	0.382	4.023	1.09	0.754

* * * * *

* Urban interstate-Wake County-OP Peak

* File 26, Run 1, Scenario 31.

* * * * *

* Urban 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.430	0.722	0.586	0.688	0.558	0.105	0.193	0.212	2.77	0.547
Composite NOX:	0.374	0.604	0.639	0.613	2.028	0.342	0.542	6.050	1.35	1.313

* * * * *

* Urban freeway-Wake County-OP Peak

* File 26, Run 1, Scenario 32.

* * * * *

* Urban freeway 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.430	0.722	0.586	0.688	0.558	0.105	0.193	0.212	2.77	0.567
Composite NOX:	0.374	0.604	0.639	0.613	2.028	0.342	0.542	6.051	1.35	1.000

* * * * *

* Urban principle arterial-Wake County-OP Peak

* File 26, Run 1, Scenario 33.

* * * * *

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.473	0.777	0.632	0.740	0.638	0.122	0.226	0.273	2.67	0.624
Composite NOX:	0.353	0.566	0.601	0.575	1.761	0.231	0.365	3.834	1.07	0.715

* #

* Urban minor arterial-Wake County-OP Peak

* File 26, Run 1, Scenario 34.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.467	0.771	0.627	0.734	0.625	0.119	0.220	0.262	2.63	0.624
Composite NOX:	0.354	0.568	0.603	0.577	1.786	0.233	0.368	3.875	1.08	0.655

* #

* Urban collector-Wake County-OP Peak

* File 26, Run 1, Scenario 35.

* #

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
MT Distribution:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.478	0.784	0.638	0.746	0.653	0.125	0.233	0.286	2.71	0.639
Composite NOX:	0.352	0.563	0.598	0.572	1.733	0.229	0.361	3.795	1.06	0.626

```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.475	0.780	0.635	0.743	0.646	0.123	0.230	0.280	2.69	0.630
Composite NOX:	0.353	0.564	0.600	0.573	1.748	0.230	0.363	3.816	1.06	0.687

```

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

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

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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:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.422	0.711	0.575	0.676	0.553	0.105	0.192	0.210	3.18	0.502
Composite NOX:	0.380	0.617	0.652	0.626	2.107	0.427	0.678	7.512	1.49	2.250

* #
 * Rural principle arterial-Durham County-AM Peak
 * File 26, Run 1, Scenario 38.
 * #
 * Rural other principle arterial mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 54.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3332	0.3837	0.1308		0.0424	0.0003	0.0020	0.1025	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.436	0.732	0.594	0.697	0.566	0.106	0.195	0.217	2.56	0.563
Composite NOX:	0.369	0.596	0.630	0.605	1.974	0.302	0.477	5.356	1.26	1.074

* #
 * Rural minor arterial-Durham County-AM Peak
 * File 26, Run 1, Scenario 39.
 * #
 * Rural minor arterial 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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)							
VTM Distribution:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.450	0.751	0.610	0.715	0.588	0.111	0.205	0.233	2.57	0.588
Composite NOX:	0.362	0.582	0.617	0.591	1.881	0.258	0.407	4.289	1.13	0.864

* #

* Rural major collector-Durham County-AM Peak

* File 26, Run 1, Scenario 40.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.452	0.754	0.612	0.718	0.593	0.112	0.206	0.237	2.57	0.599
Composite NOX:	0.360	0.580	0.615	0.589	1.867	0.253	0.399	4.203	1.11	0.771

* #

* Rural minor collector-Durham County-AM Peak

* File 26, Run 1, Scenario 41.

* #

* Rural minor 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.455	0.757	0.615	0.721	0.598	0.113	0.208	0.240	2.57	0.601
Composite NOX:	0.359	0.578	0.613	0.587	1.853	0.247	0.391	4.111	1.10	0.767

* #
* Rural local-Durham County-AM Peak
* File 26, Run 1, Scenario 42.
* #
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.464	0.768	0.624	0.731	0.619	0.117	0.218	0.257	2.62	0.613
Composite NOX:	0.355	0.570	0.605	0.579	1.801	0.236	0.373	3.924	1.08	0.744

* #
* Urban interstate-Durham County-AM Peak
* File 26, Run 1, Scenario 43.
* #
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.438	0.734	0.596	0.699	0.568	0.107	0.196	0.219	2.56	0.555
Composite NOX:	0.368	0.594	0.629	0.603	1.961	0.294	0.466	5.232	1.23	1.196

* #

* Urban freeway-Durham County-AM Peak

* File 26, Run 1, Scenario 44.

* #

* Urban freeway 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.450	0.751	0.610	0.715	0.589	0.111	0.205	0.234	2.57	0.590
Composite NOX:	0.362	0.582	0.617	0.591	1.881	0.258	0.407	4.600	1.13	0.865

* #

* Urban principle arterial-Durham County-AM Peak

* File 26, Run 1, Scenario 45.

* #

* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 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)							
VTM Distribution:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.486	0.793	0.646	0.755	0.671	0.129	0.241	0.300	2.76	0.640
Composite NOX:	0.354	0.563	0.599	0.572	1.707	0.228	0.360	3.778	1.05	0.709

* #
* Urban minor arterial-Durham County-AM Peak
* File 26, Run 1, Scenario 46.
* #
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.486	0.793	0.646	0.755	0.671	0.129	0.241	0.300	2.76	0.646
Composite NOX:	0.354	0.563	0.599	0.572	1.708	0.228	0.360	3.782	1.05	0.647

* #
* Urban collector-Durham County-AM Peak
* File 26, Run 1, Scenario 47.
* #
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3702	0.4258	0.1451		0.0148	0.0003	0.0022	0.0359	0.0057	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.475	0.780	0.635	0.743	0.645	0.123	0.230	0.280	2.69	0.636
Composite NOX:	0.353	0.564	0.600	0.573	1.747	0.230	0.363	3.815	1.06	0.628

* #
* Urban local-Durham County-AM Peak
* File 26, Run 1, Scenario 48.
* #
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3615	0.4160	0.1419		0.0212	0.0003	0.0021	0.0514	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.486	0.793	0.646	0.755	0.671	0.129	0.241	0.300	2.76	0.643
Composite NOX:	0.354	0.563	0.599	0.572	1.707	0.228	0.360	3.779	1.05	0.684

* #
* Rural interstate-Durham County-PM Peak
* File 26, Run 1, Scenario 49.
* #
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

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:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.424	0.714	0.579	0.680	0.554	0.105	0.192	0.210	3.04	0.503
Composite NOX:	0.378	0.613	0.648	0.622	2.081	0.396	0.628	6.976	1.45	2.122

```

* #####
* Rural principle arterial-Durham County-PM Peak
* File 26, Run 1, Scenario 50.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 54.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3332	0.3837	0.1308		0.0424	0.0003	0.0020	0.1025	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.436	0.732	0.594	0.697	0.566	0.106	0.195	0.217	2.56	0.563
Composite NOx:	0.369	0.596	0.630	0.605	1.974	0.302	0.477	5.356	1.26	1.074

```
* #####
* Rural minor arterial-Durham County-PM Peak
* File 26, Run 1, Scenario 51.
* #####
* Rural minor arterial 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.445	0.745	0.605	0.710	0.580	0.109	0.201	0.227	2.56	0.583
Composite NOX:	0.364	0.586	0.620	0.595	1.907	0.267	0.422	4.450	1.15	0.882

* * * * *
* Rural major collector-Durham County-PM Peak
* File 26, Run 1, Scenario 52.
* * * * *
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.452	0.754	0.612	0.718	0.593	0.112	0.206	0.237	2.57	0.599
Composite NOX:	0.360	0.580	0.615	0.589	1.867	0.253	0.399	4.203	1.11	0.771

* * * * *
* Rural minor collector-Durham County-PM Peak
* File 26, Run 1, Scenario 53.
* * * * *
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.452	0.754	0.612	0.718	0.593	0.112	0.206	0.237	2.57	0.598
Composite NOX:	0.360	0.580	0.615	0.589	1.867	0.253	0.399	4.201	1.11	0.775

* #
* Rural local-Durham County-PM Peak
* File 26, Run 1, Scenario 54.
* #
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.464	0.768	0.624	0.731	0.619	0.117	0.218	0.257	2.62	0.613
Composite NOX:	0.355	0.570	0.605	0.579	1.801	0.236	0.373	3.924	1.08	0.744

* #
* Urban interstate-Durham County-PM Peak
* File 26, Run 1, Scenario 55.
* #
* Urban interstate mix and speeds
M615 Comment:
User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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: 73.0 (F)

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3191	0.3673	0.1252		0.0530	0.0003	0.0019	0.1283	0.0049	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.438	0.734	0.596	0.699	0.568	0.107	0.196	0.219	2.56	0.555
Composite NOX:	0.368	0.594	0.629	0.603	1.961	0.294	0.466	5.232	1.23	1.196

* #

* Urban freeway-Durham County-PM Peak

* File 26, Run 1, Scenario 56.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3470	0.3997	0.1363		0.0320	0.0003	0.0020	0.0773	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.452	0.754	0.612	0.718	0.593	0.112	0.206	0.237	2.57	0.593
Composite NOX:	0.360	0.580	0.615	0.589	1.867	0.253	0.399	4.514	1.11	0.856

* #

* Urban principle arterial-Durham County-PM Peak

* File 26, Run 1, Scenario 57.

* #

* Urban principle arterial 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

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban minor arterial-Durham County-PM Peak
* File 26, Run 1, Scenario 58.
* #####
* Urban minor arterial 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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban collector-Durham County-PM Peak
* File 26, Run 1, Scenario 59.
* #####
* Urban collector 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
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban local-Durham County-PM Peak
* File 26, Run 1, Scenario 60.
* #####
* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural interstate-Durham County-OP Peak
* File 26, Run 1, Scenario 61.
* #####
* 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
```


there are no sales for vehicle class HDGV8b

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3441	0.3962	0.1351		0.0342	0.0003	0.0020	0.0828	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.439	0.737	0.598	0.702	0.571	0.108	0.197	0.221	2.56	0.576
Composite NOX:	0.367	0.592	0.626	0.601	1.947	0.287	0.454	4.794	1.21	0.916

* * * * *
* Rural major collector-Durham County-OP Peak
* File 26, Run 1, Scenario 64.
* * * * *
* Rural major 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.450	0.751	0.610	0.715	0.589	0.111	0.205	0.234	2.57	0.596
Composite NOX:	0.362	0.582	0.617	0.591	1.881	0.258	0.407	4.289	1.13	0.779

* * * * *
* Rural minor collector-Durham County-OP Peak
* File 26, Run 1, Scenario 65.
* * * * *
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.452	0.754	0.612	0.718	0.593	0.112	0.206	0.237	2.57	0.598
Composite NOX:	0.360	0.580	0.615	0.589	1.867	0.253	0.399	4.201	1.11	0.775

* #
* Rural local-Durham County-OP Peak
* File 26, Run 1, Scenario 66.
* #
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.459	0.762	0.619	0.726	0.608	0.115	0.213	0.248	2.60	0.607
Composite NOX:	0.357	0.574	0.609	0.583	1.828	0.242	0.382	4.023	1.09	0.754

* #
* Urban interstate-Durham County-OP Peak
* File 26, Run 1, Scenario 67.
* #
* 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

there are no sales for vehicle class HDGV8b

Fuel Sulfur Content: 30. ppm

Reformulated Gas: No

Composite NOX:	0.375	0.607	0.641	0.615	2.041	0.353	0.559	6.231	1.38	1.338
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

```
there are no sales for vehicle class HDGV8b
```

Fuel Sulfur Content: 30. ppm

Reformulated Gas: No

Composite NOX:	0.368	0.594	0.628	0.603	1.961	0.294	0.466	5.232	1.23	0.926
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

will be used for all hours of the day. 100% of VMT

has been assigned to the arterial/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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3578	0.4119	0.1404		0.0240	0.0003	0.0021	0.0580	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.473	0.777	0.632	0.740	0.638	0.122	0.226	0.273	2.67	0.624
Composite NOX:	0.353	0.566	0.601	0.575	1.761	0.231	0.365	3.834	1.07	0.715

* #
 * Urban minor arterial-Durham County-OP Peak
 * File 26, Run 1, Scenario 70.
 * #
 * 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3668	0.4223	0.1441		0.0172	0.0003	0.0021	0.0415	0.0057	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.475	0.780	0.635	0.743	0.646	0.123	0.230	0.280	2.69	0.634
Composite NOX:	0.353	0.564	0.600	0.573	1.748	0.230	0.363	3.819	1.06	0.650

* #
 * Urban collector-Durham County-OP Peak
 * File 26, Run 1, Scenario 71.
 * #
 * Urban collector mix and speeds

M615 Comment:
 User supplied VMT mix.

M583 Warning:
 The user supplied arterial average speed of 39.0

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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.2660	0.3060	0.1043		0.0930	0.0002	0.0016	0.2248	0.0041	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.421	0.709	0.574	0.675	0.552	0.105	0.192	0.210	3.24	0.501
Composite NOX:	0.382	0.619	0.654	0.628	2.120	0.442	0.702	7.767	1.52	2.310

* * * * *
* Rural major collector-Granville(Modeled)-AM Peak
* File 26, Run 1, Scenario 74.
* * * * *
* 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

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3551	0.4086	0.1393		0.0261	0.0003	0.0021	0.0630	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.464	0.768	0.624	0.731	0.619	0.117	0.218	0.257	2.62	0.613
Composite NOX:	0.355	0.570	0.605	0.579	1.801	0.236	0.373	3.924	1.08	0.745

* * * * *
* Rural minor collector-Granville(Modeled)-AM Peak
* File 26, Run 1, Scenario 75.
* * * * *
* Rural minor collector mix and speeds

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

```

Calendar Year: 2011
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.455	0.757	0.615	0.721	0.598	0.113	0.208	0.240	2.57	0.601
Composite NOX:	0.359	0.578	0.613	0.587	1.853	0.247	0.391	4.111	1.10	0.767

```
* #####
* Rural local-Granville(Modeled)-AM Peak
* File 26, Run 1, Scenario 76.
* #####
* Rural local mix and speeds
* M615 Comment:
```

M615 Comment:

User supplied VMT mix.

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.

there are no sales for vehicle class HDGV8b

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.450	0.751	0.610	0.715	0.589	0.111	0.205	0.234	2.57	0.596
Composite NOX:	0.362	0.582	0.617	0.591	1.881	0.258	0.407	4.289	1.13	0.778

```
* #####
* Rural interstate-Granville(Modeled)-PM Peak
* File 26, Run 1, Scenario 77.
* #####
```


* 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

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.452	0.754	0.612	0.718	0.593	0.112	0.206	0.237	2.57	0.598
Composite NOX:	0.360	0.580	0.615	0.589	1.867	0.253	0.399	4.201	1.11	0.775

```
* Rural-local-Granville (Modeled) - PM Peak
```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.452	0.754	0.612	0.718	0.593	0.112	0.206	0.237	2.57	0.599
Composite NOX:	0.360	0.580	0.615	0.589	1.867	0.253	0.399	4.203	1.11	0.779

* ##

* Rural interstate mix and speeds

User supplied VMT mix.

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
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite Emission Factors (g/mi):										
Composite VOC:	0.421	0.709	0.574	0.675	0.552	0.105	0.192	0.210	3.24	0.501
Composite NOX:	0.382	0.619	0.654	0.628	2.120	0.442	0.702	7.767	1.52	2.310

* Rural major collector mix and speeds

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.

```
there are no sales for vehicle class HDGV8b
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Composite VOC:	0.161	0.166	0.621	0.751	0.615	0.117	0.216	0.257	2.62	0.615
Composite NOX:	0.355	0.570	0.605	0.579	1.801	0.236	0.373	3.924	1.08	0.745

* ##

* Rural minor collector mix and speeds

User supplied VMT mix.

MS83 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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
GWR:	<6000	>6000	(All)							
VMT Distribution:	0.3546	0.4081	0.1391		0.0264	0.0003	0.0021	0.0639	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.455	0.757	0.615	0.721	0.598	0.113	0.208	0.240	2.57	0.601
Composite NOX:	0.359	0.578	0.613	0.587	1.853	0.247	0.391	4.111	1.10	0.767

```
* Rural local-Granville(Modeled)-OP Peak
* File 26, Run 1, Scenario 84.
* # # # # # # # # # # # # # # # # # #
* Rural local mix and speeds
```

MOIS 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

```

Calendar Year:	2011
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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 <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3551	0.4088	0.1394		0.0260	0.0003	0.0021	0.0628	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.516	0.831	0.680	0.793	0.741	0.144	0.270	0.354	2.94	0.676
Composite NOX:	0.371	0.580	0.617	0.589	1.629	0.233	0.368	3.867	1.00	0.744

 * #
 * Rural principle arterial-Wake County-AM Peak
 * File 27, Run 1, Scenario 2.
 * #
 * Rural other principle arterial 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: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3058	0.4041	0.1376		0.0424	0.0003	0.0021	0.1026	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.274	0.496	0.385	0.468	0.427	0.067	0.135	0.185	2.51	0.387
Composite NOX:	0.200	0.361	0.374	0.364	1.092	0.155	0.296	3.188	1.28	0.639

 * #
 * Rural minor arterial-Wake County-AM Peak
 * File 27, Run 1, Scenario 3.
 * #
 * Rural minor arterial 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:0.3161 0.4173 0.1422 0.0341 0.0003 0.0021 0.0827 0.0052 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.299 0.523 0.406 0.493 0.495 0.079 0.162 0.246 2.66 0.422
Composite NOX: 0.187 0.336 0.349 0.339 0.953 0.115 0.219 2.229 1.06 0.472

* * * * *
* Rural major collector-Wake County-AM Peak
* File 27, Run 1, Scenario 4.
* * * * *
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:0.3258 0.4305 0.1467 0.0260 0.0003 0.0022 0.0631 0.0054 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.289 0.513 0.398 0.484 0.465 0.073 0.150 0.218 2.56 0.413
Composite NOX: 0.191 0.343 0.355 0.346 0.998 0.120 0.229 2.333 1.09 0.441

* * * * *
* Rural minor collector-Wake County-AM Peak
* File 27, Run 1, Scenario 5.
* * * * *
* Rural minor collector 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.292	0.516	0.401	0.487	0.474	0.075	0.153	0.226	2.59	0.417
Composite NOX:	0.189	0.340	0.352	0.343	0.982	0.117	0.223	2.272	1.08	0.437

* #

* Rural local-Wake County-AM Peak

* File 27, Run 1, Scenario 6.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.291	0.515	0.399	0.485	0.469	0.074	0.151	0.222	2.57	0.415
Composite NOX:	0.190	0.341	0.354	0.345	0.990	0.119	0.226	2.303	1.08	0.438

* #

* Urban interstate-Wake County-AM Peak

* File 27, Run 1, Scenario 7.

* #

* Urban interstate 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.277	0.501	0.388	0.472	0.435	0.068	0.138	0.192	2.51	0.386
Composite NOX:	0.197	0.355	0.368	0.358	1.064	0.140	0.268	2.899	1.19	0.678

* #

* Urban freeway-Wake County-AM Peak

* File 27, Run 1, Scenario 8.

* #

* 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: 2014

Month: July

Altitude: Low

Minimum Temperature: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 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:	0.3186	0.4210	0.1434		0.0320	0.0003	0.0021	0.0773	0.0053	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.277	0.501	0.388	0.472	0.435	0.068	0.138	0.192	2.51	0.397
Composite NOX:	0.197	0.355	0.368	0.358	1.064	0.140	0.268	2.899	1.19	0.530

* #

* Urban principle arterial-Wake County-AM Peak

* File 27, Run 1, Scenario 9.

* #

* Urban principle arterial 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: 73.0 (F)

Maximum Temperature: 89.0 (F)

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:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.299	0.523	0.406	0.493	0.495	0.079	0.162	0.246	2.66	0.426
Composite NOX:	0.187	0.336	0.349	0.339	0.953	0.115	0.219	2.226	1.06	0.417

* #

* Urban minor arterial-Wake County-AM Peak

* File 27, Run 1, Scenario 10.

* #

* Urban minor arterial 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
MT Distribution:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.299	0.523	0.406	0.493	0.496	0.079	0.162	0.246	2.66	0.429
Composite NOX:	0.187	0.336	0.348	0.339	0.954	0.115	0.219	2.232	1.06	0.381

* #

* Urban collector-Wake County-AM Peak

* File 27, Run 1, Scenario 11.

* #

* 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 LDPT12

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.528	0.410	0.498	0.509	0.082	0.167	0.258	2.71	0.435
Composite NOX:	0.188	0.336	0.349	0.339	0.939	0.114	0.218	2.216	1.05	0.368

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.528	0.410	0.498	0.508	0.082	0.167	0.258	2.71	0.433
Composite NOX:	0.188	0.336	0.349	0.339	0.939	0.114	0.218	2.219	1.05	0.402

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Appendix C.3
June 7, 2007

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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.275	0.499	0.387	0.470	0.431	0.067	0.137	0.188	2.51	0.363
Composite NOX:	0.198	0.358	0.371	0.361	1.078	0.148	0.283	3.049	1.23	0.996

* * * * *
 * Rural principle arterial-Wake County-PM Peak
 * File 27, Run 1, Scenario 14.
 * * * * *
 * Rural other principle arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 54.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3058	0.4041	0.1376		0.0424	0.0003	0.0021	0.1026	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.275	0.497	0.386	0.469	0.429	0.067	0.136	0.187	2.51	0.389
Composite NOX:	0.199	0.359	0.372	0.363	1.086	0.151	0.289	3.120	1.26	0.631

* * * * *
 * Rural minor arterial-Wake County-PM Peak
 * File 27, Run 1, Scenario 15.
 * * * * *
 * Rural minor arterial mix and speeds
 M615 Comment:
 User supplied VMT mix.

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.299	0.523	0.406	0.493	0.496	0.079	0.162	0.246	2.66	0.429
Composite NOX:	0.187	0.336	0.348	0.339	0.954	0.115	0.219	2.232	1.06	0.381

```

M583 Warning:
    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

```

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:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.528	0.410	0.498	0.509	0.082	0.167	0.258	2.71	0.435
Composite NOX:	0.188	0.336	0.349	0.339	0.939	0.114	0.218	2.216	1.05	0.368

```

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
M 48 Warning:
    there are no sales for vehicle class LDDT12

```

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

```

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:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.528	0.410	0.498	0.508	0.082	0.167	0.258	2.71	0.433
Composite NOX:	0.188	0.336	0.349	0.339	0.939	0.114	0.218	2.219	1.05	0.402

```
* #####  
* Rural interstate-Wake County-OP Peak  
* File 27, Run 1, Scenario 25.  
* #####  
* 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.  
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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.273	0.495	0.383	0.466	0.424	0.066	0.135	0.183	2.65	0.360
Composite NOX:	0.201	0.364	0.377	0.367	1.108	0.166	0.318	3.415	1.33	1.082

```

* #####
* Rural principle arterial-Wake County-OP Peak
* File 27, Run 1, Scenario 26.
* #####
* Rural other principle 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: 73.0 (F)

```

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3058	0.4041	0.1376		0.0424	0.0003	0.0021	0.1026	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.272	0.494	0.383	0.466	0.423	0.066	0.134	0.183	2.72	0.386
Composite NOX:	0.202	0.365	0.378	0.369	1.115	0.172	0.329	3.524	1.35	0.678

* #
* Rural minor arterial-Wake County-OP Peak
* File 27, Run 1, Scenario 27.
* #
* 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
M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.287	0.512	0.397	0.483	0.460	0.073	0.148	0.214	2.55	0.408
Composite NOX:	0.191	0.344	0.357	0.347	1.005	0.121	0.232	2.362	1.09	0.491

* #
* Rural major collector-Wake County-OP Peak
* File 27, Run 1, Scenario 28.
* #
* Rural major collector 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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.286	0.510	0.396	0.481	0.457	0.072	0.146	0.210	2.54	0.410
Composite NOX:	0.192	0.346	0.358	0.349	1.012	0.123	0.235	2.388	1.10	0.447

```

* #####
* Rural minor collector-Wake County-OP Peak
* File 27, Run 1, Scenario 29.
* #####
* 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

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVMR:	<6000	>6000	(All)							
VMT Distribution:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.289	0.513	0.398	0.484	0.465	0.073	0.150	0.218	2.56	0.413
Composite NOx:	0.191	0.343	0.355	0.346	0.998	0.120	0.229	2.332	1.09	0.443

```
* #####
* Rural local-Wake County-OP Peak
* File 27, Run 1, Scenario 30.
* #####
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.289	0.513	0.398	0.484	0.464	0.073	0.150	0.218	2.56	0.413
Composite NOX:	0.191	0.343	0.355	0.346	0.998	0.120	0.229	2.333	1.09	0.441

* * * * *
* Urban interstate-Wake County-OP Peak
* File 27, Run 1, Scenario 31.
* * * * *
* Urban 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.272	0.494	0.383	0.466	0.423	0.066	0.134	0.183	2.72	0.380
Composite NOX:	0.202	0.365	0.378	0.369	1.115	0.172	0.329	3.523	1.35	0.769

* * * * *
* Urban freeway-Wake County-OP Peak
* File 27, Run 1, Scenario 32.
* * * * *
* Urban freeway mix and speeds
M615 Comment:


```

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban collector-Wake County-OP Peak
* File 27, Run 1, Scenario 35.
* #####
* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
Redesignation Demonstration and Maintenance Plan

User supplied VMT mix.

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.

```

there are no sales for vehicle class HDGV8b

```

```

there are no sales for vehicle class LDDT12

```

Month: July

Temperature: 73.0

Minimum Rel. Hum.: 49.0 (%)

Barometric Pressure: 30.00 (in)

Weathered RVP: 7.5 psi

Evap I/M Program: Yes

Reformulated Gas: No

LDGV LDGT12 LDGT34

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
1. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
2. <i>Curculionidae</i>	10	10	10	10	10	10	10	10	10	10
3. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
4. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
5. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
6. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
7. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
8. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
9. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
10. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
11. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
12. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
13. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
14. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
15. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
16. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
17. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
18. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
19. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
20. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
21. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
22. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
23. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
24. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
25. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
26. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
27. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
28. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
29. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
30. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
31. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
32. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
33. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
34. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
35. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
36. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
37. <i>Chrysomelidae</i>	10	10	10	10	10	10	10	10	10	10
38. <i>Chrysomelidae</i>	10	10	10	10						

Composite VOC:	0.299	0.523	0.406	0.493	0.495	0.079	0.162	0.246	2.66	0.427
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

User supplied VMT mix.

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

```

```
there are no sales for vehicle class LDDT12
```

Month: July

```

temperature: 73.0

```

Minimum Rel. Hum.: 49.0 (%)

Barometric Pressure: 30.00 (in)

Weathered RVP: 7.5 psi

Evap I/M Program: Yes

Reformulated Gas: No

LDGV LDGT12 LDGT34

Mobile Source Inventory

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:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.280	0.505	0.391	0.476	0.443	0.069	0.141	0.198	2.52	0.400
Composite NOX:	0.195	0.351	0.364	0.354	1.042	0.132	0.252	2.564	1.14	0.514

* #
 * Rural major collector-Durham County-AM Peak
 * File 27, Run 1, Scenario 40.
 * #
 * 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.283	0.508	0.394	0.479	0.449	0.070	0.144	0.204	2.53	0.407
Composite NOX:	0.193	0.348	0.361	0.351	1.027	0.127	0.242	2.465	1.11	0.455

* #
 * Rural minor collector-Durham County-AM Peak
 * File 27, Run 1, Scenario 41.
 * #
 * Rural minor 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: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)

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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.291	0.515	0.399	0.485	0.469	0.074	0.151	0.221	2.57	0.415
Composite NOX:	0.190	0.341	0.354	0.345	0.990	0.119	0.226	2.303	1.08	0.444

```

* #####
* Rural local-Durham County-AM Peak
* File 27, Run 1, Scenario 42.
* #####
* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.289	0.513	0.398	0.484	0.464	0.073	0.150	0.218	2.56	0.413
Composite NOX:	0.191	0.343	0.355	0.346	0.998	0.120	0.229	2.333	1.09	0.441

```
* * * * *
* Urban interstate-Durham County-AM Peak
* File 27, Run 1, Scenario 43.
* * * * *
* Urban interstate 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: 2014
Month: July
Altitude: Low

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban freeway-Durham County-AM Peak
* File 27, Run 1, Scenario 44.
* #####
* 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
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban principle arterial-Durham County-AM Peak
* File 27, Run 1, Scenario 45.
* #####
* Urban principle arterial 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.299	0.523	0.406	0.493	0.495	0.079	0.162	0.246	2.66	0.426
Composite NOX:	0.187	0.336	0.349	0.339	0.953	0.115	0.219	2.226	1.06	0.417

* #

* Urban minor arterial-Durham County-AM Peak

* File 27, Run 1, Scenario 46.

* #

* 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

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.528	0.410	0.498	0.509	0.082	0.167	0.258	2.71	0.434
Composite NOX:	0.188	0.336	0.349	0.339	0.939	0.114	0.218	2.223	1.05	0.381

* #

* Urban collector-Durham County-AM Peak

* File 27, Run 1, Scenario 47.

* #

* 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.301	0.525	0.408	0.495	0.502	0.080	0.165	0.252	2.69	0.432
Composite NOX:	0.187	0.335	0.347	0.338	0.945	0.114	0.218	2.213	1.05	0.367

* #

* Urban local-Durham County-AM Peak

* File 27, Run 1, Scenario 48.

* #

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.304	0.528	0.410	0.498	0.508	0.082	0.167	0.258	2.71	0.433
Composite NOX:	0.188	0.336	0.349	0.339	0.939	0.114	0.218	2.219	1.05	0.402

* #

* Rural interstate-Durham County-PM Peak

* File 27, Run 1, Scenario 49.

* #

* Rural 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: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.274	0.496	0.385	0.468	0.427	0.067	0.135	0.185	2.51	0.361
Composite NOX:	0.200	0.361	0.374	0.364	1.092	0.155	0.296	3.188	1.28	1.030

* * * * *

* Rural principle arterial-Durham County-PM Peak

* File 27, Run 1, Scenario 50.

* * * * *

* Rural other principle arterial 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: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3058	0.4041	0.1376		0.0424	0.0003	0.0021	0.1026	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.277	0.501	0.388	0.472	0.435	0.068	0.138	0.192	2.51	0.392
Composite NOX:	0.197	0.355	0.368	0.358	1.064	0.140	0.268	2.900	1.19	0.604

there are no sales for vehicle class LDPT12

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

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Composite Emission Factors (g/mi):
 Composite VOC: 0.282 0.506 0.392 0.477 0.446 0.070 0.142 0.201 2.52 0.405
 Composite NOX: 0.194 0.350 0.362 0.353 1.035 0.129 0.247 2.515 1.13 0.459

* * * * *
 * Rural minor collector-Durham County-PM Peak
 * File 27, Run 1, Scenario 53.
 * * * * *
 * Rural minor collector 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.286 0.510 0.396 0.481 0.456 0.072 0.146 0.210 2.54 0.410
 Composite NOX: 0.192 0.346 0.358 0.349 1.012 0.123 0.235 2.387 1.10 0.449

* * * * *
 * Rural local-Durham County-PM Peak
 * File 27, Run 1, Scenario 54.
 * * * * *
 * 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

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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):										
Composite VOC:	0.287	0.512	0.397	0.483	0.460	0.073	0.148	0.214	2.55	0.412
Composite NOX:	0.191	0.344	0.357	0.347	1.005	0.121	0.232	2.361	1.09	0.444

```
* #####
* Urban interstate-Durham County-PM Peak
* File 27, Run 1, Scenario 55.
* #####
* Urban interstate mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the freeway roadway type for
    all hours of the day and all vehicle types.
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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTM Distribution:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.275	0.499	0.387	0.470	0.431	0.067	0.137	0.188	2.51	0.384
Composite NOX:	0.198	0.358	0.371	0.361	1.079	0.148	0.283	3.049	1.23	0.701

```
* #####
* Urban freeway-Durham County-PM Peak
* File 27, Run 1, Scenario 56.
* #####
* Urban freeway 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
M 48 Warning:
    there are no sales for vehicle class LDDT12
```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VTMT Distribution:	0.3186	0.4210	0.1434		0.0320	0.0003	0.0021	0.0773	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.282	0.506	0.392	0.477	0.446	0.070	0.142	0.201	2.52	0.403
Composite NOX:	0.194	0.350	0.362	0.353	1.035	0.129	0.247	2.683	1.13	0.508

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.297	0.521	0.405	0.492	0.489	0.078	0.160	0.240	2.64	0.424
Composite NOx:	0.188	0.337	0.350	0.340	0.961	0.115	0.220	2.238	1.06	0.419

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:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.301	0.525	0.408	0.495	0.502	0.080	0.165	0.252	2.69	0.431
Composite NOX:	0.187	0.335	0.347	0.338	0.946	0.114	0.218	2.219	1.05	0.379

```

# # # # #
* Urban collector-Durham County-PM Peak
* File 27, Run 1, Scenario 59.
* # # # # #
* 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:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.301	0.525	0.408	0.495	0.502	0.080	0.165	0.252	2.69	0.432
Composite NOX:	0.187	0.335	0.347	0.338	0.945	0.114	0.218	2.213	1.05	0.367

```
* #####
* Urban local-Durham County-PM Peak
* File 27, Run 1, Scenario 60.
* #####
* 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: 2014
Month: July

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural interstate-Durham County-OP Peak
* File 27, Run 1, Scenario 61.
* #####
* 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
```

Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural principle arterial-Durham County-OP Peak
* File 27, Run 1, Scenario 62.
* #####
* Rural other principle arterial mix and speeds
M615 Comment:
    User supplied VMT mix.
M581 Warning:
    The user supplied freeway average speed of 53.0
    will be used for all hours of the day. 100% of VMT
    has been assigned to the 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:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm
Exhaust I/M Program:	Yes
Evap I/M Program:	Yes
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural minor arterial-Durham County-OP Peak
* File 27, Run 1, Scenario 63.
* #####
* Rural minor arterial mix and speeds
* M615 Comment:
```

M583 Warning:
The user supplied arterial average speed of 52.0
will be used for all hours of the day. 100% of VMT
has been assigned to the 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

```

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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-Durham County-OP Peak
* File 27, Run 1, Scenario 64.
* #####
* Rural major collector mix and speeds
* M615 Comment:
```

M583 Warning: The user supplied arterial average speed of 48.0


```

* #####
* Urban local-Durham County-OP Peak
* File 27, Run 1, Scenario 72.
* #####
* 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

```


M615 Comment:

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

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:0.3058 0.4041 0.1376 0.0424 0.0003 0.0021 0.1026 0.0051 1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.337	0.594	0.467	0.562	0.427	0.067	0.135	0.185	2.51	0.458
Composite NOX:	0.280	0.487	0.481	0.486	1.092	0.155	0.296	3.188	1.28	0.730

M615 Comment:

;

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.

there are no sales for vehicle class HDGV8b

```
there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

VMT Distribution:0.3161 0.4173 0.1422 0.0341 0.0003 0.0021 0.0827 0.0052 1.0000

Composite Emission Factors (g/mi):

Composite VOC:	0.372	0.634	0.501	0.600	0.495	0.079	0.162	0.246	2.66	0.505
Composite NOX:	0.268	0.460	0.454	0.459	0.953	0.115	0.219	2.229	1.06	0.564

* * * * *

* Rural major collector-Wake County-AM Peak

* File 28, Run 1, Scenario 4.

* * * * *

* 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: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 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:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
-------------------	--------	--------	--------	--	--------	--------	--------	--------	--------	--------

Composite Emission Factors (g/mi):

Composite VOC:	0.359	0.620	0.489	0.587	0.465	0.073	0.150	0.218	2.56	0.495
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

Composite NOX:	0.271	0.467	0.461	0.466	0.998	0.120	0.229	2.333	1.09	0.537
----------------	-------	-------	-------	-------	-------	-------	-------	-------	------	-------

* * * * *

* Rural minor collector-Wake County-AM Peak

* File 28, Run 1, Scenario 5.

* * * * *

* Rural minor collector 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: 73.0 (F)

Maximum Temperature: 89.0 (F)

Minimum Rel. Hum.: 49.0 (%)

Maximum Rel. Hum.: 96.0 (%)

Barometric Pressure: 30.00 (inches Hg)

Nominal Fuel RVP: 7.8 psi

Weathered RVP: 7.5 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
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Mobile Source Inventory

Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone

Redesignation Demonstration and Maintenance Plan

5-1031

Appendix C.3

June 7, 2007

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VTMT Distribution:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.342	0.601	0.473	0.569	0.435	0.068	0.138	0.192	2.51	0.455
Composite NOX:	0.277	0.481	0.475	0.479	1.064	0.140	0.268	2.899	1.19	0.765

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3186	0.4210	0.1434		0.0320	0.0003	0.0021	0.0773	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.342	0.601	0.473	0.569	0.435	0.068	0.138	0.192	2.51	0.472
Composite NOX:	0.277	0.481	0.475	0.479	1.064	0.140	0.268	2.899	1.19	0.624

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)

```

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:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.372	0.634	0.501	0.600	0.495	0.079	0.162	0.246	2.66	0.512
Composite NOX:	0.268	0.460	0.454	0.459	0.953	0.115	0.219	2.226	1.06	0.513

[illegible]

```
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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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)							
VTM Distribution:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.372	0.634	0.501	0.600	0.496	0.079	0.162	0.246	2.66	0.517
Composite NOX:	0.268	0.460	0.454	0.459	0.954	0.115	0.219	2.232	1.06	0.479

```

* #####
* Urban collector-Wake County-AM Peak
* File 28, Run 1, Scenario 11.
* #####
* 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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)							
VTM Distribution:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.378	0.641	0.507	0.607	0.509	0.082	0.167	0.258	2.71	0.526
Composite NOX:	0.269	0.460	0.455	0.459	0.939	0.114	0.218	2.216	1.05	0.467

* #
 * Urban local-Wake County-AM Peak
 * File 28, Run 1, Scenario 12.
 * #
 * 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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)							
VTM Distribution:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.378	0.641	0.507	0.607	0.508	0.082	0.167	0.258	2.71	0.521
Composite NOX:	0.269	0.460	0.455	0.459	0.939	0.114	0.218	2.219	1.05	0.499

* #
 * Rural interstate-Wake County-PM Peak
 * File 28, Run 1, Scenario 13.
 * #
 * Rural interstate mix and speeds

M615 Comment:
 User supplied VMT mix.
 M581 Warning:
 The user supplied freeway average speed of 53.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.
 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.340	0.597	0.470	0.565	0.431	0.067	0.137	0.188	2.51	0.420
Composite NOX:	0.279	0.484	0.478	0.483	1.078	0.148	0.283	3.049	1.23	1.068

* #
* Rural principle arterial-Wake County-PM Peak
* File 28, Run 1, Scenario 14.
* #
* Rural other principle arterial mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 54.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3058	0.4041	0.1376		0.0424	0.0003	0.0021	0.1026	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.339	0.596	0.468	0.563	0.429	0.067	0.136	0.187	2.51	0.459
Composite NOX:	0.280	0.486	0.480	0.484	1.086	0.151	0.289	3.120	1.26	0.721

* #
* Rural minor arterial-Wake County-PM Peak
* File 28, Run 1, Scenario 15.
* #
* Rural 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

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.370	0.632	0.498	0.598	0.489	0.078	0.160	0.240	2.64	0.502
Composite NOX:	0.268	0.461	0.455	0.460	0.961	0.115	0.220	2.241	1.06	0.566

* * * * *
* Rural major collector-Wake County-PM Peak
* File 28, Run 1, Scenario 16.
* * * * *
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.359	0.620	0.489	0.587	0.465	0.073	0.150	0.218	2.56	0.495
Composite NOX:	0.271	0.467	0.461	0.466	0.998	0.120	0.229	2.333	1.09	0.537

* * * * *
* Rural minor collector-Wake County-PM Peak
* File 28, Run 1, Scenario 17.
* * * * *
* Rural minor 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: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.361	0.622	0.491	0.589	0.469	0.074	0.151	0.221	2.57	0.497
Composite NOX:	0.270	0.466	0.460	0.464	0.990	0.119	0.226	2.303	1.08	0.535

* * * * *
 * Rural local-Wake County-PM Peak
 * File 28, Run 1, Scenario 18.
 * * * * *
 * 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.361	0.622	0.491	0.589	0.469	0.074	0.151	0.222	2.57	0.498
Composite NOX:	0.270	0.466	0.460	0.464	0.990	0.119	0.226	2.303	1.08	0.533

Composite Emission Factors (g/mi):
 Composite VOC: 0.340 0.597 0.470 0.565 0.431 0.067 0.137 0.188 2.51 0.469
 Composite NOX: 0.279 0.484 0.478 0.483 1.079 0.148 0.283 3.049 1.23 0.639

* * * * *
 * Urban principle arterial-Wake County-PM Peak
 * File 28, Run 1, Scenario 21.
 * * * * *
 * Urban principle arterial 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000

Composite Emission Factors (g/mi):
 Composite VOC: 0.372 0.634 0.501 0.600 0.495 0.079 0.162 0.246 2.66 0.512
 Composite NOX: 0.268 0.460 0.454 0.459 0.953 0.115 0.219 2.226 1.06 0.513

* * * * *
 * Urban minor arterial-Wake County-PM Peak
 * File 28, Run 1, Scenario 22.
 * * * * *
 * Urban minor arterial 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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 VOC:	0.372	0.634	0.501	0.600	0.496	0.079	0.162	0.246	2.66	0.517
Composite NOX:	0.268	0.460	0.454	0.459	0.954	0.115	0.219	2.232	1.06	0.479

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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 VOC:	0.378	0.641	0.507	0.607	0.509	0.082	0.167	0.258	2.71	0.526
Composite NOX:	0.269	0.460	0.455	0.459	0.939	0.114	0.218	2.216	1.05	0.467

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.378	0.641	0.507	0.607	0.508	0.082	0.167	0.258	2.71	0.521
Composite NOX:	0.269	0.460	0.455	0.459	0.939	0.114	0.218	2.219	1.05	0.499

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Fuel Sulfur Content:	30. ppm

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.335	0.590	0.464	0.558	0.424	0.066	0.135	0.183	2.65	0.415
Composite NOX:	0.282	0.491	0.485	0.489	1.108	0.166	0.318	3.415	1.33	1.157

```

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)

```

Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3058	0.4041	0.1376		0.0424	0.0003	0.0021	0.1026	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.334	0.589	0.463	0.557	0.423	0.066	0.134	0.183	2.72	0.455
Composite NOX:	0.283	0.492	0.487	0.491	1.115	0.172	0.329	3.524	1.35	0.769

* #

* Rural minor arterial-Wake County-OP Peak

* File 28, Run 1, Scenario 27.

* #

* 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

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.357	0.618	0.487	0.585	0.460	0.073	0.148	0.214	2.55	0.487
Composite NOX:	0.271	0.469	0.463	0.467	1.005	0.121	0.232	2.362	1.09	0.583

* #

* Rural major collector-Wake County-OP Peak

* File 28, Run 1, Scenario 28.

* #

* Rural major collector 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

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```

* #####
* Rural minor collector-Wake County-OP Peak
* File 28, Run 1, Scenario 29.
* #####
* 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

```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Rural local-Wake County-OP Peak
* File 28, Run 1, Scenario 30.
* #####
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.359	0.620	0.489	0.587	0.464	0.073	0.150	0.218	2.56	0.495
Composite NOX:	0.271	0.467	0.461	0.466	0.998	0.120	0.229	2.333	1.09	0.536

* #
* Urban interstate-Wake County-OP Peak
* File 28, Run 1, Scenario 31.
* #
* Urban 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.334	0.589	0.463	0.557	0.423	0.066	0.134	0.183	2.72	0.446
Composite NOX:	0.283	0.492	0.487	0.491	1.115	0.172	0.329	3.523	1.35	0.856

* #
* Urban freeway-Wake County-OP Peak
* File 28, Run 1, Scenario 32.
* #
* Urban freeway mix and speeds
M615 Comment:

User supplied VMT mix.

M581 Warning:
The user supplied freeway average speed of 58.0

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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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)							
VTM Distribution:	0.3368	0.4448	0.1515		0.0171	0.0003	0.0023	0.0416	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.363	0.625	0.493	0.591	0.474	0.075	0.153	0.226	2.59	0.507
Composite NOX:	0.269	0.464	0.458	0.463	0.982	0.117	0.223	2.277	1.08	0.485

* #

* Urban collector-Wake County-OP Peak

* File 28, Run 1, Scenario 35.

* #

* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.370	0.632	0.498	0.598	0.490	0.078	0.160	0.240	2.64	0.516
Composite NOX:	0.268	0.461	0.455	0.460	0.961	0.115	0.220	2.237	1.06	0.466

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.347	0.607	0.478	0.574	0.443	0.069	0.141	0.198	2.52	0.476
Composite NOX:	0.275	0.476	0.470	0.475	1.042	0.132	0.252	2.564	1.14	0.607

* * * * *

* Rural major collector-Durham County-AM Peak

* File 28, Run 1, Scenario 40.

* * * * *

* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.351	0.612	0.481	0.578	0.449	0.070	0.144	0.204	2.53	0.487
Composite NOX:	0.273	0.473	0.467	0.472	1.027	0.127	0.242	2.465	1.11	0.550

* * * * *

* Rural minor collector-Durham County-AM Peak

* File 28, Run 1, Scenario 41.

* * * * *

* Rural minor 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.361	0.622	0.491	0.589	0.469	0.074	0.151	0.221	2.57	0.497
Composite NOX:	0.270	0.466	0.460	0.464	0.990	0.119	0.226	2.303	1.08	0.535

* * * * *
* Rural local-Durham County-AM Peak
* File 28, Run 1, Scenario 42.
* * * * *
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.359	0.620	0.489	0.587	0.464	0.073	0.150	0.218	2.56	0.495
Composite NOX:	0.271	0.467	0.461	0.466	0.998	0.120	0.229	2.333	1.09	0.536

* * * * *
* Urban interstate-Durham County-AM Peak
* File 28, Run 1, Scenario 43.
* * * * *
* Urban interstate 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)

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:	0.2929	0.3869	0.1317		0.0530	0.0003	0.0020	0.1284	0.0048	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.342	0.601	0.473	0.569	0.435	0.068	0.138	0.192	2.51	0.455
Composite NOX:	0.277	0.481	0.475	0.479	1.064	0.140	0.268	2.899	1.19	0.76

```
* #####  
* Urban freeway-Durham County-AM Peak  
* File 28, Run 1, Scenario 44.  
* #####  
* 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:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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)							
VTM Distribution:	0.3186	0.4210	0.1434		0.0320	0.0003	0.0021	0.0773	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.351	0.612	0.481	0.578	0.449	0.070	0.144	0.204	2.53	0.482
Composite NOX:	0.273	0.473	0.467	0.472	1.027	0.127	0.242	2.633	1.11	0.596

```

* #####
* Urban principle arterial-Durham County-AM Peak
* File 28, Run 1, Scenario 45.
* #####
* Urban principle arterial 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

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

[illegible]

Calendar Year:	2014
Month:	July
Altitude:	Low
Air Temperature:	73.0 (F)
Water Temperature:	89.0 (F)
Relative Humidity:	49.0 (%)
Barometric Pressure:	96.0 (%)
Static Pressure:	30.00 (inches Hg)
Minimum Fuel RVP:	7.8 psi
Weathered RVP:	7.5 psi
Sulfur Content:	30. ppm

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban collector-Durham County-AM Peak
* File 28, Run 1, Scenario 47.
* #####
* 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3396	0.4486	0.1528		0.0148	0.0003	0.0023	0.0360	0.0056	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.375	0.637	0.503	0.603	0.502	0.080	0.165	0.252	2.69	0.522
Composite NOX:	0.267	0.459	0.453	0.457	0.945	0.114	0.218	2.213	1.05	0.466

* * * * *
* Urban local-Durham County-AM Peak
* File 28, Run 1, Scenario 48.
* * * * *
* 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.378	0.641	0.507	0.607	0.508	0.082	0.167	0.258	2.71	0.521
Composite NOX:	0.269	0.460	0.455	0.459	0.939	0.114	0.218	2.219	1.05	0.499

* * * * *
* Rural interstate-Durham County-PM Peak
* File 28, Run 1, Scenario 49.
* * * * *
* Rural 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.337	0.594	0.467	0.562	0.427	0.067	0.135	0.185	2.51	0.417
Composite NOX:	0.280	0.487	0.481	0.486	1.092	0.155	0.296	3.188	1.28	1.102

* * * * *
* Rural principle arterial-Durham County-PM Peak
* File 28, Run 1, Scenario 50.
* * * * *
* Rural other principle arterial 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: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3058	0.4041	0.1376		0.0424	0.0003	0.0021	0.1026	0.0051	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.342	0.601	0.473	0.569	0.435	0.068	0.138	0.192	2.51	0.464
Composite NOX:	0.277	0.481	0.475	0.479	1.064	0.140	0.268	2.900	1.19	0.694

* * * * *
* Rural minor arterial-Durham County-PM Peak
* File 28, Run 1, Scenario 51.

* #

* Rural minor arterial 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.347	0.607	0.478	0.574	0.443	0.069	0.141	0.198	2.52	0.476
Composite NOX:	0.275	0.476	0.470	0.475	1.042	0.132	0.252	2.564	1.14	0.607

* #

* Rural major collector-Durham County-PM Peak

* File 28, Run 1, Scenario 52.

* #

* Rural major 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.349	0.609	0.480	0.576	0.446	0.070	0.142	0.201	2.52	0.485
Composite NOX:	0.274	0.475	0.469	0.473	1.035	0.129	0.247	2.515	1.13	0.555

 * #
 * Rural minor collector-Durham County-PM Peak
 * File 28, Run 1, Scenario 53.
 * #
 * Rural minor collector 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.355	0.616	0.485	0.583	0.456	0.072	0.146	0.210	2.54	0.491
Composite NOX:	0.272	0.470	0.464	0.469	1.012	0.123	0.235	2.387	1.10	0.544

* #
 * Rural local-Durham County-PM Peak
 * File 28, Run 1, Scenario 54.
 * #
 * 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

M 48 Warning:
 there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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)							

VTM Distribution:0.3261 0.4306 0.1467 0.0259 0.0003 0.0022 0.0628 0.0054 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.357 0.618 0.487 0.584 0.460 0.073 0.148 0.214 2.55 0.493
Composite NOX: 0.271 0.469 0.463 0.467 1.005 0.121 0.232 2.361 1.09 0.539

* #
* Urban interstate-Durham County-PM Peak
* File 28, Run 1, Scenario 55.
* #
* Urban interstate mix and speeds
M615 Comment:

User supplied VMT mix.
M581 Warning:
The user supplied freeway average speed of 53.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)

VTM Distribution:0.2929 0.3869 0.1317 0.0530 0.0003 0.0020 0.1284 0.0048 1.0000

Composite Emission Factors (g/mi):
Composite VOC: 0.340 0.597 0.470 0.565 0.431 0.067 0.137 0.188 2.51 0.452
Composite NOX: 0.279 0.484 0.478 0.483 1.079 0.148 0.283 3.049 1.23 0.787

* #
* Urban freeway-Durham County-PM Peak
* File 28, Run 1, Scenario 56.
* #
* Urban freeway 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

M 48 Warning:
there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3186	0.4210	0.1434		0.0320	0.0003	0.0021	0.0773	0.0053	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.349	0.609	0.480	0.576	0.446	0.070	0.142	0.201	2.52	0.480
Composite NOX:	0.274	0.475	0.469	0.473	1.035	0.129	0.247	2.683	1.13	0.602

* * * * *

* Urban principle arterial-Durham County-PM Peak

* File 28, Run 1, Scenario 57.

* * * * *

* Urban principle 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

M 48 Warning:

there are no sales for vehicle class LDDT12

Calendar Year: 2014
Month: July
Altitude: Low
Minimum Temperature: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3284	0.4339	0.1479		0.0239	0.0003	0.0022	0.0580	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.370	0.632	0.498	0.598	0.489	0.078	0.160	0.240	2.64	0.509
Composite NOX:	0.268	0.461	0.455	0.460	0.961	0.115	0.220	2.238	1.06	0.515

* * * * *

* Urban minor arterial-Durham County-PM Peak

* File 28, Run 1, Scenario 58.

* * * * *

* Urban minor arterial 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban collector-Durham County-PM Peak
* File 28, Run 1, Scenario 59.
* #####
* Urban collector mix and speeds
* M615 Comment:
```

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDDT12
```

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

```
* #####
* Urban local-Durham County-PM Peak
* File 28, Run 1, Scenario 60.
* #####
* Urban local mix and speeds
M615 Comment:
```

```
M 48 Warning:      there are no sales for vehicle class HDGV8b
M 48 Warning:      there are no sales for vehicle class LDPT12
```

Mobile Source Inventory
Raleigh-Durham-Chapel Hill, NC 8-Hour Ozone
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	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							

VMT Distribution:	0.3319	0.4383	0.1493		0.0212	0.0003	0.0022	0.0513	0.0055	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.381	0.645	0.511	0.611	0.515	0.083	0.170	0.265	2.74	0.526
Composite NOX:	0.271	0.462	0.456	0.460	0.932	0.114	0.219	2.223	1.04	0.500

* #

* Rural interstate-Durham County-OP Peak

* File 28, Run 1, Scenario 61.

* #

* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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)							
MT Distribution:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.329	0.582	0.457	0.550	0.420	0.066	0.134	0.181	3.06	0.410
Composite NOX:	0.287	0.501	0.495	0.499	1.152	0.207	0.396	4.217	1.47	1.348

* #

* Rural principle arterial-Durham County-OP Peak

* File 28, Run 1, Scenario 62.

* #

* Rural other principle arterial mix and speeds

M615 Comment:

User supplied VMT mix.

M581 Warning:

The user supplied freeway average speed of 53.0 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M 48 Warning:

there are no sales for vehicle class HDGV8b

M 48 Warning:

there are no sales for vehicle class LDPT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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)							
VTM Distribution:	0.3058	0.4041	0.1376		0.0424	0.0003	0.0021	0.1026	0.0051	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.340	0.597	0.470	0.565	0.431	0.067	0.137	0.188	2.51	0.461
Composite NOX:	0.279	0.484	0.478	0.483	1.079	0.148	0.283	3.050	1.23	0.712

* #
 * Rural minor arterial-Durham County-OP Peak
 * File 28, Run 1, Scenario 63.
 * #
 * Rural minor arterial mix and speeds
 M615 Comment:

User supplied VMT mix.
 M583 Warning:
 The user supplied arterial average speed of 52.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.
 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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)							
VTM Distribution:	0.3161	0.4173	0.1422		0.0341	0.0003	0.0021	0.0827	0.0052	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.341	0.599	0.471	0.567	0.432	0.068	0.138	0.190	2.51	0.469
Composite NOX:	0.278	0.483	0.477	0.481	1.071	0.144	0.275	2.809	1.21	0.633

* #
 * Rural major collector-Durham County-OP Peak
 * File 28, Run 1, Scenario 64.
 * #
 * Rural major 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.347	0.607	0.478	0.574	0.443	0.069	0.141	0.198	2.52	0.483
Composite NOX:	0.275	0.476	0.470	0.475	1.042	0.132	0.252	2.563	1.14	0.559

* * * * *
 * Rural minor collector-Durham County-OP Peak
 * File 28, Run 1, Scenario 65.
 * * * * *
 * 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: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.351	0.612	0.481	0.578	0.449	0.070	0.144	0.204	2.53	0.486
Composite NOX:	0.273	0.473	0.467	0.472	1.027	0.127	0.242	2.464	1.11	0.552

* * * * *
 * Rural local-Durham County-OP Peak
 * File 28, Run 1, Scenario 66.
 * * * * *
 * Rural local mix and speeds
 M615 Comment:
 User supplied VMT mix.

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:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.329	0.580	0.456	0.549	0.419	0.066	0.134	0.181	3.13	0.410
Composite NOX:	0.288	0.502	0.497	0.501	1.159	0.214	0.411	4.370	1.49	1.384

* * * * *
* Rural major collector-Modeled Granville-AM Peak
* File 28, Run 1, Scenario 74.
* * * * *
* Rural major collector 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.367	0.629	0.496	0.595	0.484	0.077	0.157	0.235	2.62	0.505
Composite NOX:	0.269	0.462	0.456	0.461	0.969	0.116	0.221	2.252	1.07	0.527

* * * * *
* Rural minor collector-Modeled Granville-AM Peak
* File 28, Run 1, Scenario 75.
* * * * *
* Rural minor 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi

Exhaust I/M Program:	No
Evap I/M Program:	No
ATP Program:	Yes
Reformulated Gas:	No

Vehicle Type: GVWR:	LDGV <6000	LDGT12 >6000	LDGT34 (All)	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.357	0.618	0.487	0.585	0.460	0.073	0.148	0.214	2.55	0.493
Composite NOx:	0.271	0.469	0.463	0.467	1.005	0.121	0.232	2.360	1.09	0.541

```
* #####
* Rural local-Modeled Granville-AM Peak
* File 28, Run 1, Scenario 76.
* #####
* 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:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.351	0.612	0.481	0.578	0.449	0.070	0.144	0.204	2.53	0.487
Composite NOx:	0.273	0.473	0.467	0.472	1.027	0.127	0.242	2.465	1.11	0.549

```
* #####
* Rural interstate-Modeled Granville-PM Peak
* File 28, Run 1, Scenario 77.
* #####
* Rural interstate mix and speeds
M615 Comment:
```

Notes: Comments: 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: 73.0 (F)

```

Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.2441	0.3224	0.1099		0.0929	0.0002	0.0016	0.2249	0.0040	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.329	0.582	0.457	0.550	0.420	0.066	0.134	0.181	3.06	0.410
Composite NOX:	0.287	0.501	0.495	0.499	1.152	0.207	0.396	4.217	1.47	1.348

* #
* Rural major collector-Modeled Granville-PM Peak
* File 28, Run 1, Scenario 78.
* #
* Rural major collector 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: 73.0 (F)
Maximum Temperature: 89.0 (F)
Minimum Rel. Hum.: 49.0 (%)
Maximum Rel. Hum.: 96.0 (%)
Barometric Pressure: 30.00 (inches Hg)
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 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)							
VTM Distribution:	0.3258	0.4305	0.1467		0.0260	0.0003	0.0022	0.0631	0.0054	1.0000

Composite Emission Factors (g/mi):										
Composite VOC:	0.363	0.625	0.493	0.591	0.474	0.075	0.153	0.226	2.59	0.500
Composite NOX:	0.269	0.464	0.458	0.463	0.982	0.117	0.223	2.273	1.08	0.530

* #
* Rural minor collector-Modeled Granville-PM Peak
* File 28, Run 1, Scenario 79.
* #
* Rural minor 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

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.353	0.614	0.483	0.581	0.453	0.071	0.145	0.207	2.53	0.489
Composite NOX:	0.273	0.472	0.466	0.470	1.019	0.124	0.237	2.412	1.10	0.547

Calendar Year:	2014
Month:	July
Altitude:	Low
Minimum Temperature:	73.0 (F)
Maximum Temperature:	89.0 (F)
Minimum Rel. Hum.:	49.0 (%)
Maximum Rel. Hum.:	96.0 (%)
Barometric Pressure:	30.00 (inches Hg)
Nominal Fuel RVP:	7.8 psi
Weathered RVP:	7.5 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
GVMR:	<6000	>6000	(All)							
VMT Distribution:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.349	0.609	0.480	0.576	0.446	0.070	0.142	0.201	2.52	0.485
Composite NOX:	0.274	0.475	0.469	0.473	1.035	0.129	0.247	2.515	1.13	0.554

```
* #####
* Rural interstate-Modeled Granville-OP Peak
* File 28, Run 1, Scenario 81.
* #####
* 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
```


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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3256	0.4298	0.1464		0.0264	0.0003	0.0022	0.0639	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.351	0.612	0.481	0.578	0.449	0.070	0.144	0.204	2.53	0.486
Composite NOX:	0.273	0.473	0.467	0.472	1.027	0.127	0.242	2.464	1.11	0.552

* * * * *
 * Rural local-Modeled Granville-OP Peak
 * File 28, Run 1, Scenario 84.
 * * * * *
 * Rural local 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: 73.0 (F)
 Maximum Temperature: 89.0 (F)
 Minimum Rel. Hum.: 49.0 (%)
 Maximum Rel. Hum.: 96.0 (%)
 Barometric Pressure: 30.00 (inches Hg)
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 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:	0.3261	0.4306	0.1467		0.0259	0.0003	0.0022	0.0628	0.0054	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.349	0.609	0.480	0.576	0.446	0.070	0.142	0.201	2.52	0.485
Composite NOX:	0.274	0.475	0.469	0.473	1.035	0.129	0.247	2.515	1.13	0.554