# Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project 2015 Monitoring Report Monitoring Year 2 of 5

Granville County, North Carolina Tar-Pamlico River Basin USGS Hydrologic Unit 03020101

NCDMS Project No. 95807 NCDMS Contract No. 5153



#### **Submitted to:**

North Carolina Department of Environmental Quality Division of Mitigation Services 1652 Mail Service Center Raleigh, NC 27699-1652

FINAL – 2015 Monitoring Report – Year 2 of 5

Project Construction Completed: 2014 Data Collection for Monitoring Year 2 of 5 Report Submitted: February 2016

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Granville County, North Carolina Tar-Pamlico River Basin

#### **Submitted to:**

NC Department of Environmental Quality Division of Mitigation Services 1652 Mail Service Center Raleigh, NC 27699-1652

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> > February 2016

**FINAL** 





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#### 1.0 MITIGATION PROJECT SUMMARY

The Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project (the Project) site is located in Granville County in the Tar-Pamlico River Basin (Figure 1: Vicinity Map). Much of the Tar-Pamlico River Basin has a history of nutrient stressor issues. Coon Creek is located within the NC Division of Mitigation Services' (NCDMS) Fishing Creek Local Watershed Plan to address agricultural stressors and identify potential restoration opportunities. As part of the larger Tar-Pamlico River Basin, Coon Creek is located in U.S. Geological Survey (USGS) hydrologic unit code (HUC) 03020101020010, which is identified in the 2010 Tar-Pamlico River Basin Restoration Priorities Report as a Targeted Local Watershed (TLW) to promote nutrient and sediment reduction in agricultural areas by restoring and preserving wetlands, streams, and riparian buffers. Projects that reduce sediment impacts and re-establish riparian buffers are a top priority for the Fishing Creek Watershed.

The Project established 30.19 acres of buffer easement along four unnamed tributaries (UT1 through UT4) to Coon Creek, including along Crews Farm Lake, an in-line impoundment (Figure 2: Project Component), and will result in a maximum of 8.1 Riparian Mitigation Units (RMUs) and 14.5 Nutrient Mitigation Units (NMUs). Riparian mitigation activities begin at the top-of-bank and generally extend out to 100 ft, and nutrient offset mitigation activities begin at 100 ft and extend out to 200 ft.

Monitoring Year 2 (MY 2) has been completed for the Project, and 83 percent of the monitoring plots are meeting or exceeding success criteria (Appendix B: CVS Vegetation Monitoring Output Tables). Of the monitoring plots meeting or exceeding success criteria, only three are within 10% of the minimum success threshold (Appendix B: CVS Vegetation Monitoring Output Tables). Minimal remedial action is currently required. Overall, the Project is in very good condition.

Table 1 below shows the timeline of completed and future project activities.

**Activity or Deliverable Data Collection Complete Completion or Delivery Institution Date** Mar-13 N/A Jul-13 Jul-13 **Categorical Exclusion Mitigation Plan** Sep-13 Nov-13 Final Design - Planting Plans Nov-13 Nov-13 **Planting** Jan -14 Feb -14 As-built (Year 0 Monitoring - baseline) Feb-14 May-14 Nov-14 **Year 1 Monitoring** Sept-14 Sept-15 Dec-15 Year 2 Monitoring **TBD Year 3 Monitoring TBD Year 4 Monitoring TBD TBD Year 5 Monitoring TBD TBD** 

**Table 1: Project Activity and Reporting History** 

#### 2.0 ANNUAL MONITORING

#### 2.1 METHODS

Annual monitoring of the parameters listed below were conducted and reported using the Riparian Buffer and Nutrient Offset Buffer Annual Monitoring Report Template (ver. 1.0; NCDMS, 2014).

Required Quantity Frequency Notes Parameter Vegetation will be monitored X Vegetation 23 Plots (2.5% of Planted Area) using the CVS-NCDMS Level 1 Annual and 2 protocols Exotic and nuisance Locations of exotic and nuisance X Annual vegetation vegetation will be identified Locations of vegetation damage, X **Project Boundary** Semi-annual boundary encroachments, etc. will be mapped

**Table 2: Monitoring Efforts** 

To assess whether the vegetation performance standards are achieved, the Carolina Vegetation Survey (CVS)-NCDMS Protocol for Recording Vegetation Version 4.2 (Lee *et al.*, 2008) was used to perform annual Level 2 monitoring of 23 plots distributed across the planted area (Figure 3: Year 2 Monitoring Results). These plots were placed throughout the re-established buffer to get a representative sample of planted vegetation. MY 2 monitoring was conducted in September 2015, and subsequent years of vegetation monitoring data will continue to be collected between June 1 and September 31. Individual plot data will be provided to NCDMS and CVS following CVS-NCDMS guidance.

Each corner of the vegetation plots is marked with steel electrical metallic tubing (EMT) driven into the ground and capped. Pink flagging was used to mark the counted stems, orange flagging was used to mark the southwest vegetation plot corner pins, and blue flagging was used to mark the other three corners.

General visual vegetation monitoring was also performed in MY 2. This inspection assessed any potential problems such as poor stem density areas, areas of poor growth rate/poor vigor, bare areas, and problematic invasive species.

Photographs of vegetation plots were taken at each photo station, which is located at the southwest corner of each plot, facing diagonal to the northeast corner. Photographs can be found in Appendix A.

Vegetation data output tables can be found in Appendix B. The measure of vegetative success for the site will be the survival of at least 320 planted hardwood stems per acre at the end of the fifth monitoring year.

#### 2.2 RESULTS AND DISCUSSION

All monitoring activities were conducted successfully, and overall the site is in very good condition. Vegetation plot data was collected on September 14, 16, and 17, 2015. The scanned field datasheets are provided as Appendix C. Of the 23 plots sampled, 19 plots met or exceeded the success criteria. Of these, three plots exceeded the success criteria by less than 10% (Figure 3: Year 2 Monitoring Results and Appendix B: CVS Vegetation Monitoring Output Tables). Vegetation plots 12 to 15 did not meet success criteria for planted stems. Volunteer hardwood stems in vegetation plots 13 and 14 elevate stem abundance above the 320 stems per acre minimum threshold (Appendix B: CVS Vegetation Monitoring Output Tables). It appears that vegetation plot 12

did not meet success criteria because significant amounts of sediment eroded from the upland slope during storm events and either buried or washed away planted stems. Vegetation Plot 13 did not meet the success criteria due to an overgrowth of sericea lespedeza (*Lespedeza cuneate*), which overcrowded many of the planted stems. It appears that the soil in Vegetation plots 14 and 15 was compacted from previous agricultural activities. It may be that the planted stems have not established well in those conditions. Due to the continued lack of a planted stem density that meets success criteria in four vegetation plots, O'Brien & Gere will take remedial action, which will likely include supplemental planting and hand fertilization.

An approximately 30-foot by 30-foot area of common reed (*Phragmites australis*) was identified during baseline monitoring within the conservation easement boundary on the east side of UT1 to Coon Creek, just north of the farm crossing north of Winding Oak Road. The area was treated on September 15, 2014 by River Works using an herbicide. The treatment appears to have successfully removed common reed from the area in MY 2.

Japanese honeysuckle (*Lonicera japonica*), Chinese privet (*Ligustrum sinense*), Chinese wisteria (*Wisteria sinensis*), and multifloral rose (*Rosa multiflora*) were seen sporadically throughout the site. However, these occurrences were isolated, and do not appear to be compromising planted stem success at this time.

Two areas of invasive species may be compromising planted stems, and do warrant treatment at this time: Sericea lespedeza at Vegetation Plot 13, and dodder (*Cuscuta sp.*) at Vegetation Plot 10. The affected areas in and around Vegetation Plots 13 and 10 will be treated using aquatic-safe methods. Planted stem mortality associated with the treatment methods selected is not anticipated. If mortality is observed following treatment, the treatment areas will be replanted with bare-root seedlings.

Gullies and fishing access encroachment north of Winding Oak Road were observed at the Crews Farm Lake entrance. Remedial action to prevent further encroachment and limit erosion is being investigated and coordinated with the landowner. This area will continue to be monitored.

#### 2.3 MAINTENANCE AND MANAGEMENT

The site is monitored annually, and physical inspection of the site will be conducted twice per year throughout the post-construction monitoring period, or until performance standards are met. During MY 2, vegetation monitoring was conducted on September 16-17, 2015, and physical inspections were conducted on April 16, 2015 and September 14, 2015. Routine maintenance planned for the coming year includes the following:

Component/Feature **Maintenance Activities** Vegetation Invasive plant species, areas of bare soil, and poor stem density will be monitored during annual monitoring efforts. Four vegetation plots with poor stem density will be replanted (Vegetation Plots 12 through 15). Dodder (Vegetation Plot 10) and sericea lespedeza (Vegetation Plot 13) will be spot-treated as needed. Boundary markers disturbed, damaged, or destroyed will be repaired and/or replaced on an as **Site Boundary** needed basis. Gullies and fishing access encroachment near the Crews Farm Lake entrance will be monitored and remediated as appropriate. The ford crossings within the site will be maintained by the landowner and only as allowed by the **Ford Crossing** Conservation Easement. The mobile irrigation equipment access point to Crews Farm Lake will be maintained by the **Irrigation Access** landowner and only as allowed by the Conservation Easement.

**Table 3: Maintenance Activities** 

#### **3.0 REGULATORY CONSIDERATIONS**

#### 3.1 PROJECT COMPONENTS AND MITIGATION CREDITS

**Table 4: Project Components and Mitigation Credits** 

	Component Summation	
Restoration Level	Buffer (square ft)	Nutrient Offset (square ft)
0 to 50 feet from TOB	187,216	N/A
50 to 100 feet from TOB	172,780	N/A
100 to 200 feet from TOB	N/A	631,826
Total Restoration	359,996	631,826

While 359,996 ft<sup>2</sup> of riparian buffer (8.3 acres) and 631,826 ft<sup>2</sup> of nutrient offset was planted for the Project, the Project can generate a maximum of 8.1 and 14.5 mitigation credits respectively, per Full-Delivery Contract No. 5153. Therefore, the mitigation credits and restoration acreages in the following tables reflect the allowable credits, as opposed to the planted riparian buffer acreage.

	Mitigation Credits				
Type	Riparian Buffer Restoration	Nitrogen Nutrient Offset	Phosphorous Nutrient Offset		
Totals	352,836 ft <sup>2</sup> (8.1 acres)	631,620 ft <sup>2</sup> (32,959.95 lbs)	631,620 ft <sup>2</sup> (2,122.80 lbs)		

Project Components					
Project Component or Reach ID	Stationing/ Location	Approach (PI, PII, etc.)	Restoration or Restoration Equivalent	Restoration Acreage	Mitigation Ratio
	North of Winding	Planting	Buffer Restoration	5.1*	1:1
UT1 and UT2	North of Winding — Oak Rd	Planting	Nutrient Offset Restoration	7.3	1:1
	Couth of Winding	Planting	Buffer Restoration	0.8	1:1
UT1 and UT3	South of Winding — Oak Rd	Planting	Nutrient Offset Restoration	1.0	1:1
IJT4 and Charma	Couth of Winding	Planting	Buffer Restoration	2.2	1:1
UT4 and Crews Farm Lake	South of Winding — Oak Rd	Planting	Nutrient Offset Restoration	6.2	1:1

<sup>\*</sup>Actual planted acreage was 5.2 acres. As described above, the Project can generate a maximum of 8.1 buffer credits.

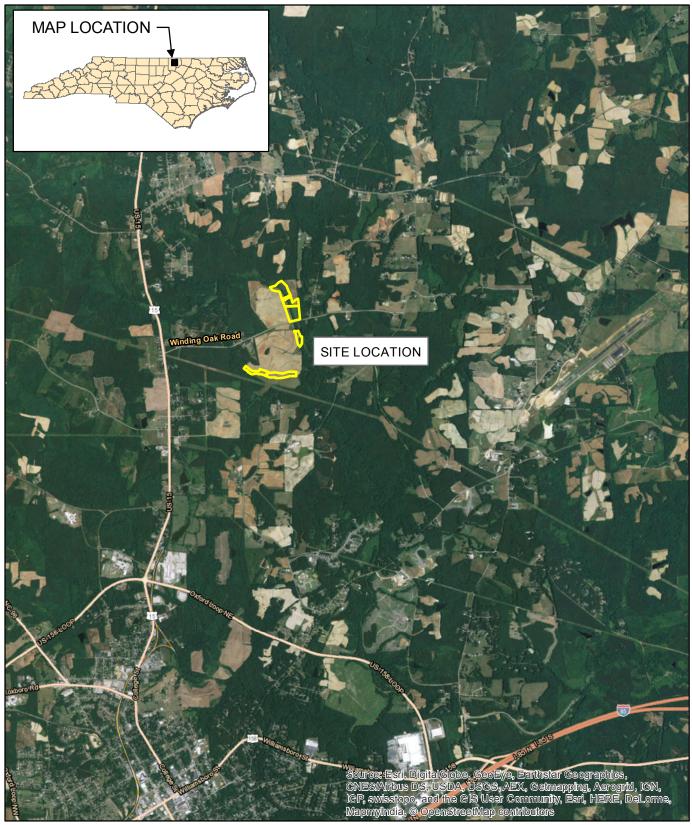
#### 3.2 SUMMARY

All mitigation activities to date have been successful. This Project is currently on track to provide the credits described in the table above.

### 4.0 REFERENCES

Lee, Michael T., R. K. Peet, S. D. Roberts, and T. R. Wentworth. 2008. CVS-NCDMS Protocol for Recording Vegetation, Version 4.2 Available URL: http://cvs.bio.unc.edu/methods.htm. [Date Accessed: 14 October 2013].

# FIGURE 1

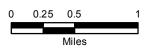


**LEGEND** 

Project Area

NCDMS FULL DELIVERY PROJECT #95807 COON CREEK RIPARIAN BUFFER AND NUTRIENT OFFSET MITIGATION PROJECT GRANVILLE COUNTY, NC

# **VICINITY MAP**

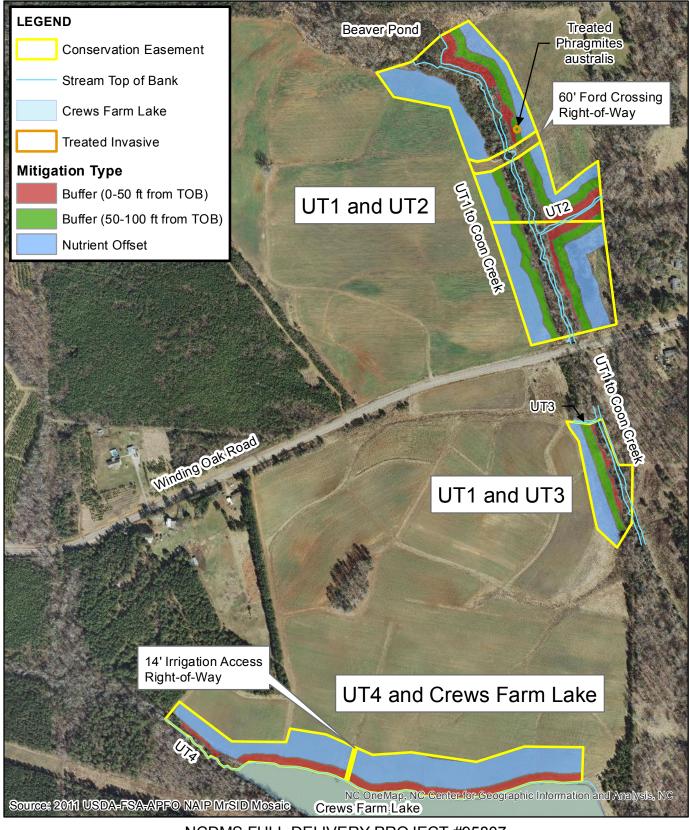








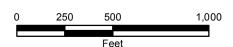
## FIGURE 2





NCDMS FULL DELIVERY PROJECT #95807 COON CREEK RIPARIAN BUFFER AND NUTRIENT OFFSET MITIGATION PROJECT GRANVILLE COUNTY, NC

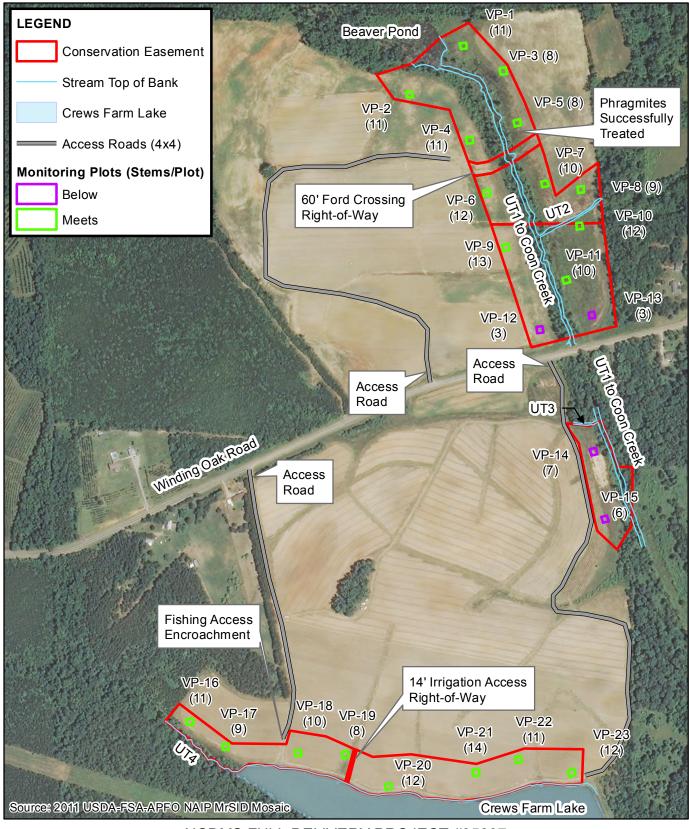
# **PROJECT COMPONENTS**







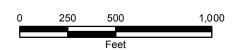
## FIGURE 3





9/17/15 50349 NCDMS FULL DELIVERY PROJECT #95807 COON CREEK RIPARIAN BUFFER AND NUTRIENT OFFSET MITIGATION PROJECT GRANVILLE COUNTY, NC

# YEAR 2 MONITORING RESULTS







### YEAR 2 MONITORING PHOTOGRAPHS

Client Name	Site Location	Project No.
NCDMS	Granville County	95807

 Photo No.
 Date

 1
 9/14/15

### DESCRIPTION

Vegetation Monitoring Plot and Photo Point 1, view northwest from southwest corner.



Client NameSite LocationProject No.NCDMSGranville County95807

 Photo No.
 Date

 2
 9/14/15

## Description

Vegetation Monitoring Plot and Photo Point 2, view northwest from southwest corner.



**Photo No. Date** 3 9/16/15

## Description

Vegetation Monitoring Plot and Photo Point 3, view northwest from southwest corner.



Client NameSite LocationProject No.NCDMSGranville County95807

**Photo No. Date** 4 9/16/15

# Description

Vegetation Monitoring Plot and Photo Point 4, view northwest from southwest corner.



 Photo No.
 Date

 5
 9/16/15

## **Description**

Vegetation Monitoring Plot and Photo Point 5, view northwest from southwest corner.



Client NameSite LocationProject No.NCDMSGranville County95807

Photo No. Date6 9/16/15

# Description

Vegetation Monitoring Plot and Photo Point 6, view northwest from southwest corner.



Client Name		Site Location	Project No.
NCDMS		Granville County	95807
Photo No.	Date		
7	9/17/15	45-5	
Description			
Vegetation M and Photo Po northwest fro corner.			

Client Name		Site Location	Project No.
NCDMS		Granville County	95807
Photo No.	Date		
8	9/17/15		
Description		AND THE RESERVE AND THE RESERV	
Vegetation M and Photo Po- northwest fro- corner.			

Client Name		Site Location	Project No.
NCDMS		Granville County 95807	
Photo No.	Date		
9	9/16/15		
<b>Description</b> Vegetation M and Photo Po- northwest fro corner.			

Client Name	2	Site Location	Project No.
NCDMS		Granville County	95807
Photo No.	Date		
10	9/17/15		
Description			A Walter Till
	Monitoring Plot		
and Photo Po northwest fro	om southwest		
corner.			
		五世 成年 16	

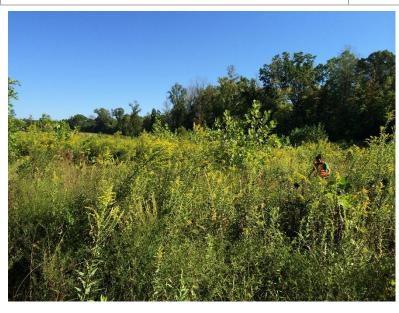
Client Name	Site Location	Project No.
NCDMS	Granville County	95807

 Photo No.
 Date

 11
 9/17/15

## Description

Vegetation Monitoring Plot and Photo Point 11, view northwest from southwest corner.



Client Name		Site Location	Project No.
NCDMS		Granville County	95807
Photo No.	Date		
12	9/16/15		

## **Description**

Vegetation Monitoring Plot and Photo Point 12, view northwest from southwest corner.



Client Name	:	Site Location	Project No.
NCDMS		Granville County	95807
Photo No.	Date		
13	9/17/15		
Description  Vegetation M and Photo Po northwest fro corner.			

Client Name	:	Site Location	Project No.
NCDMS		Granville County	95807
Photo No.	Date		
14	9/16/15		
<b>Description</b> Vegetation M and Photo Po northwest fro corner.			

 Photo No.
 Date

 15
 9/14/15

## **Description**

Vegetation Monitoring Plot and Photo Point 15, view northwest from southwest corner.



Client NameSite LocationProject No.NCDMSGranville County95807

**Photo No. Date** 16 9/16/15

## Description

Vegetation Monitoring Plot and Photo Point 16, view northwest from southwest corner.



 Photo No.
 Date

 17
 9/16/15

## **Description**

Vegetation Monitoring Plot and Photo Point 17, view northwest from southwest corner.



Client NameSite LocationProject No.NCDMSGranville County95807

 Photo No.
 Date

 18
 9/16/15

## Description

Vegetation Monitoring Plot and Photo Point 18, view northwest from southwest corner.



 Photo No.
 Date

 19
 9/16/15

## **Description**

Vegetation Monitoring Plot and Photo Point 19, view northwest from southwest corner.



Client NameSite LocationProject No.NCDMSGranville County95807

**Photo No. Date** 20 9/16/15

# Description

Vegetation Monitoring Plot and Photo Point 20, view northwest from southwest corner.



 Client Name
 Site Location
 Project No.

 NCDMS
 Granville County
 95807

 Photo No.
 Date

 21
 9/16/15

## **Description**

Vegetation Monitoring Plot and Photo Point 21, view northwest from southwest corner.



Client NameSite LocationProject No.NCDMSGranville County95807

**Photo No. Date** 22 9/16/15

# Description

Vegetation Monitoring Plot and Photo Point 22, view northwest from southwest corner.



Client Name		Site Location	Project No.
NCDMS		Granville County	95807
Photo No.	Date		
23	9/14/15		
Description			
Vegetation Me and Photo Poi northwest from corner.	nt 23, view		

Appendix B

EEP Project Code 95807. Project Name: Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project

"Table 7" - Current Plot Data and Annual Means (MY2 2015)

								Cur	rent Plo	ot Data (	MY2 2	015)														
			٧	oluntee'	ers	958	07-01-0	0002	958	307-01-0	0003	958	07-01-0	004	958	07-01-0	005	958	07-01-0	0006	958	307-01-0	0007	958	07-01-0	008
Scientific Name	Common Name	Species Type	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т
Acer rubrum	red maple	Tree																								
Asimina triloba	pawpaw	Tree	1	1	1																					
Carpinus caroliniana	American hornbeam	Tree	1	1	1										1	1	1				1	. 1	1	•		
Carya alba	mockernut hickory	Tree																								
Carya glabra	pignut hickory	Tree			1									1												
Cercis canadensis	eastern redbud	Tree																1	1	1						
Cornus florida	flowering dogwood	Tree				2	2	2				5	5	5										2	2	
Diospyros virginiana	common persimmon	Tree				2	2	2				3	3	3				2	2	2	. 1	. 1	1			
Fraxinus pennsylvanica	green ash	Tree			1			9			11			11			99			3			19			48
Juglans nigra	black walnut	Tree																								
Liquidambar styraciflua	sweetgum	Tree			49			22			6			3			2						53			{
Liriodendron tulipifera	tuliptree	Tree						1	1	1	1													1	1	!
Nyssa sylvatica	blackgum	Tree				3	3	3				2	2	2				4	4	4	. 1	. 1	1	. 3	3	:
Pinus taeda	loblolly pine	Tree																								
Platanus occidentalis	American sycamore	Tree	6	6	15										1	1	2						1	. 1	1	15
Prunus serotina	black cherry	Tree																								1
Quercus falcata	southern red oak	Tree							2	. 2	2	1	1	1				3	3	3	2	. 2	2	. 1	1	:
Quercus michauxii	swamp chestnut oak	Tree	1	1	1				2	. 2	2				5	5	5							1	1	:
Quercus nigra	water oak	Tree	2	. 2	2	4	4	4	3	3	3				1	1	1	2	2	2	5	5	5			
Quercus phellos	willow oak	Tree			1															1			1			
Salix nigra	black willow	Tree																								
Ulmus alata	winged elm	Tree			2																					
Ulmus americana	American elm	Tree			3												6						4			
		Stem count	11	11	77	11	11	43	8	8	25	11	11	26	8	8	116	12	12	16	10	10	88	9	9	92
		size (ares)		1			1	•		1	,		1	•		1			1			1			1	,
		size (ACRES)		0.02			0.02			0.02			0.02			0.02			0.02			0.02			0.02	
		Species count	5	5	11	4	4	7	4	4	6	4	4	7	4	4	7	5	5	7	5	5	10	6	6	13
		Stems per ACRE	445.2	445.2	3116	445.2	445.2	1740	323.7	323.7	1012	445.2	445.2	1052	323.7	323.7	4694	485.6	485.6	647.5	404.7	404.7	3561	364.2	364.2	3723

Appendix B

EEP Project Code 95807. Project Name: Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project

"Table 7" - Current Plot Data and Annual Means (MY2 2015)

								Cur	rent Plo	t Data (	(MY2 2	015)														
			958	307-01-0	0009	958	307-01-	0010	958	07-01-0	011	958	807-01-0	012	958	07-01-0	013	958	07-01-0	0014	958	307-01-	0015	958	07-01-0	0016
Scientific Name	Common Name	Species Type	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т
Acer rubrum	red maple	Tree																								
Asimina triloba	pawpaw	Tree				3	3	3	1	1	1	L														
Carpinus caroliniana	American hornbeam	Tree				3	3	3			1							1	1	1	. 1	. 1	. 1	L		
Carya alba	mockernut hickory	Tree																								1
Carya glabra	pignut hickory	Tree																								
Cercis canadensis	eastern redbud	Tree	1	. 1	1										1	1	1							1	1	
Cornus florida	flowering dogwood	Tree	2	. 2	2																			3	3	,
Diospyros virginiana	common persimmon	Tree	4	4	4				1	1	1	1								2	. 1	. 1	. 1	. 2	2	
Fraxinus pennsylvanica	green ash	Tree						1			3	3					2			1						
Juglans nigra	black walnut	Tree																								
Liquidambar styraciflua	sweetgum	Tree			1			32			1	1					2			9						
Liriodendron tulipifera	tuliptree	Tree				2	. 2	. 2	3	3	3	3			1	1	1				1	. 1	. 1	. 1	1	-
Nyssa sylvatica	blackgum	Tree	3	3	3																					
Pinus taeda	loblolly pine	Tree																								1
Platanus occidentalis	American sycamore	Tree				1	. 1	. 2	4	4	10	)					1	2	2	22	2					
Prunus serotina	black cherry	Tree																								
Quercus falcata	southern red oak	Tree	1	. 1	1																			2	2	
Quercus michauxii	swamp chestnut oak	Tree				2	. 2	. 2				2	2	2				4	4	4	. 3	3	3 3	3		
Quercus nigra	water oak	Tree	2	. 2	2	1	. 1	. 1	1	1	1	. 1	1	1	. 1	1	1							2	2	
Quercus phellos	willow oak	Tree																								1
Salix nigra	black willow	Tree																		66	5					1
Ulmus alata	winged elm	Tree															7									
Ulmus americana	American elm	Tree									4						7									1
		Stem count	13	13	14	12	. 12	46	10	10	25	3	3	3	3	3	22	7	7	105	6	6	5 6	11	11	. 3
		size (ares)		1			1			1			1	,		1			1			1	·		1	
		size (ACRES)		0.02			0.02			0.02			0.02			0.02			0.02			0.02			0.02	
		Species count	6	6	7	6	6	8	5	5	g	2	2	2	. 3	3	8	3	3	7	4	. 4	1 4	6	6	5 1
		Stems per ACRE	526.1	526.1	566.6	485.6	485.6	1862	404.7	404.7	1012	121.4	121.4	121.4	121.4	121.4	890.3	283.3	283.3	4249	242.8	242.8	242.8	445.2	445.2	145

Appendix B

EEP Project Code 95807. Project Name: Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project

"Table 7" - Current Plot Data and Annual Means (MY2 2015)

							Curren	t Plot D	ata (MY	2 2015	)												
			958	807-01-0	0017	958	807-01-0	018	958	07-01-	0019	958	307-01-0	020	958	07-01-0	0021	958	807-01-0	0022	958	07-01-0	0023
Scientific Name	Common Name	Species Type	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т
Acer rubrum	red maple	Tree			1																		
Asimina triloba	pawpaw	Tree																					
Carpinus caroliniana	American hornbeam	Tree																					
Carya alba	mockernut hickory	Tree																					
Carya glabra	pignut hickory	Tree																		2			
Cercis canadensis	eastern redbud	Tree										1	1	1									
Cornus florida	flowering dogwood	Tree	1	1	. 1																		
Diospyros virginiana	common persimmon	Tree				1	1	1	. 3	3	3				3	3	3	3	3	3	1	1	. 1
Fraxinus pennsylvanica	green ash	Tree			18			6	5		3	8								1			
Juglans nigra	black walnut	Tree																					
Liquidambar styraciflua	sweetgum	Tree			6															2			
Liriodendron tulipifera	tuliptree	Tree	3	3	3	1	1	1	. 1	1	. 1	. 2	2	2	2	2	2	. 1	1	1	3	3	. 4
Nyssa sylvatica	blackgum	Tree	1	1	. 1	3	3	3	3	3	3	4	4	4	2	2	2	. 3	3	3	3	3	3
Pinus taeda	loblolly pine	Tree			16			2												1			1
Platanus occidentalis	American sycamore	Tree			1																		
Prunus serotina	black cherry	Tree																					
Quercus falcata	southern red oak	Tree	2	2	. 2							3	3	3	1	1	1	. 1	1	1	1	1	. 1
Quercus michauxii	swamp chestnut oak	Tree																					
Quercus nigra	water oak	Tree	2	2	. 2	5	5	5	1	1	. 1	. 2	2	2	6	6	6	3	3	3	4	4	, 4
Quercus phellos	willow oak	Tree																					
Salix nigra	black willow	Tree																					
Ulmus alata	winged elm	Tree																					
Ulmus americana	American elm	Tree			1																		
		Stem count	9	9	52	10	10	18	8	8	11	. 12	12	12	14	14	14	. 11	11	17	12	12	2 14
		size (ares)		1			1			1			1			1			1	-		1	
		size (ACRES)		0.02			0.02			0.02			0.02			0.02			0.02			0.02	'
		Species count	5	5	11	4	4	6	6 4	4	5	5	5	5	5	5	5	5	5	9	5	5	, 6
		Stems per ACRE	364.2	364.2	2104	404.7	404.7	728.4	323.7	323.7	445.2	485.6	485.6	485.6	566.6	566.6	566.6	445.2	445.2	688	485.6	485.6	566.6

Appendix B

EEP Project Code 95807. Project Name: Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project

"Table 7" - Current Plot Data and Annual Means (MY2 2015)

		Current Plot D	ata (MY	2 2015)							
			M	Y2 (201	.5)	M	IY1 (201	L <b>4</b> )	M	Y0 (201	4)
Scientific Name	Common Name	Species Type	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	T
Acer rubrum	red maple	Tree			4			2			
Asimina triloba	pawpaw	Tree	5	5	5	6	6	6	24	24	24
Carpinus caroliniana	American hornbeam	Tree	8	8	9	9	9	9	10	10	10
Carya alba	mockernut hickory	Tree						2			
Carya glabra	pignut hickory	Tree			4						
Cercis canadensis	eastern redbud	Tree	5	5	5	8	8	8	13	13	13
Cornus florida	flowering dogwood	Tree	15	15	15	17	17	17	25	25	25
Diospyros virginiana	common persimmon	Tree	27	27	29	31	31	31	40	40	40
Fraxinus pennsylvanica	green ash	Tree			240			72			
Juglans nigra	black walnut	Tree				1	1	1	4	4	4
Liquidambar styraciflua	sweetgum	Tree			203			40			
Liriodendron tulipifera	tuliptree	Tree	23	23	30	30	30	33	49	49	49
Nyssa sylvatica	blackgum	Tree	35	35	35	35	35	35	27	27	27
Pinus taeda	loblolly pine	Tree			30						
Platanus occidentalis	American sycamore	Tree	15	15	69	12	12	52	16	16	16
Prunus serotina	black cherry	Tree			1						
Quercus falcata	southern red oak	Tree	20	20	20	25	25	25	23	23	23
Quercus michauxii	swamp chestnut oak	Tree	20	20	20	20	20	20	24	24	24
Quercus nigra	water oak	Tree	48	48	48	53	53	53	63	63	63
Quercus phellos	willow oak	Tree			4						
Salix nigra	black willow	Tree			66			36			
Ulmus alata	winged elm	Tree			16			19			
Ulmus americana	American elm	Tree			25						
		Stem count	221	221	878	247	247	461	318	318	318
		size (ares)		23			23			23	
		size (ACRES)		0.57			0.57			0.57	
		Species count	11	11	21	12	12	18	12	12	12
		Stems per ACRE	388.9	388.9	1545	434.6	434.6	811.1	559.5	559.5	559.5

# Appendix B

# Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project (#95807) Year 2 (14-Sep-2015 to 17-Sep-2015)

## "Table 8" - Vegetation Plot Summary Information

	Riparian				Unknown
	Buffer				Growth
Plot #	Stems <sup>1</sup>	Invasives	Volunteers	Total	Form
1	11	0	66	77	0
2	11	0	32	43	0
3	8	0	17	25	0
4	11	0	15	26	0
5	8	0	108	116	0
6	12	0	4	16	0
7	10	0	78	88	0
8	9	0	83	92	0
9	13	0	1	14	0
10	12	0	34	46	0
11	10	0	15	25	0
12	3	0	0	3	0
13	3	0	19	22	0
14	7	0	98	105	0
15	6	0	0	6	0
16	11	0	25	36	0
17	9	0	43	52	0
18	10	0	8	18	0
19	8	0	3	11	0
20	12	0	0	12	0
21	14	0	0	14	0
22	11	0	6	17	0
23	12	0	2	14	0

### Stem Class characteristics

<sup>1</sup>Buffer Native planted hardwood trees. Does NOT include

Stems shrubs. No pines. No vines.

### Appendix B

# Coon Creek Riparian Buffer and Nutrient Offset Mitigation Project (#95807) Year 2 (14-Sep-2015 to 17-Sep-2015)

"Table 8" - Vegetation Plot Summary Information

# **Riparian Buffer Vegetation Totals**

(per acre) **Riparian** Success **Buffer** Criteria Stems<sup>1</sup> Plot # Met? 445 Yes 1 2 445 Yes 324 3 Yes 4 445 Yes Yes 5 324 6 486 Yes 7 405 Yes 8 364 Yes Yes 9 526 10 486 Yes 11 405 Yes 12 121 No 13 121 No 283 14 No 15 243 No 445 16 Yes **17** 364 Yes 405 Yes 18 19 324 Yes 20 486 Yes 21 567 Yes 22 445 Yes 23 486 Yes **Project Avg** 389 Yes

### Stem Class characteristics

<sup>1</sup>Buffer Native planted hardwood trees. Does NOT include

Stems shrubs. No pines. No vines.

Vegetation Monitoring Data (VMD) Datashed	Vegetation	Monitoring	Data	(VMD)	Datashe
---	------------	------------	------	-------	---------

Please fill in any missing data and correct any errors.

Plot	<u>95807-01-0001</u>					Par	ty:	Re		ate last p			02/2014
	Year (1-5): 2 Date:	9/12	1/6	<u>5</u> -1	/		Pam	son		Ch	eck bo	te m/yy? ox if plot	was not
	mic Standard:					<del> </del>	. Her Ve	ON CONTRACT					eason below
	mic Standard DATE:							-		Aslati	U 4	earth	umb is peterby ation.
Latitud	e or UTM-N: (dec.deg. or m)	36.369813	i	Da	itum:	NAD83/W				bein	a 0:	ution	octaclhi
Longitu	ide or UTM-E:	-78.574152	2	U	ΓM Zor	ne: 17				wats		WALL	4 th: 20
Coordi	nate Accuracy (m):	1	X-Axis	bearin	g (deg)	: 90	<del></del>			Mineri	NO	verje!	u llu i
	Plot Dimensions: X:	10	Y:	10	☐ Plo	t has reverse o	rientation fo	r X and Y axis	Y is 90	degrees	to the	right of 2	ζ
						Sep 2014 l	Data Z		TI	HIS YEA	AR'S D	ATA	
D.	Species Name	Map char		e* X 0.1m	Y 0.1m	Height 1 cm*	Data Z of S I cm	Height 1cm*	DBH 1 cm	Re- v	Vigor*	Damage*	Notes
<u> </u>	Quercus nigra	Ъ	R	0.6	0.3	35.5	· 🗆	141			2		UNK
!	Platanus occidentalis	a	) R	0.3	8.5	Missing		2/		N I	3	-	<u> </u>
	Asimina triloba	C	R	2.6	5.3	Missing							Missing
ļ	Quercus nigra	(f)	) R	4.8	3.3	53.0		30		$\overline{\mathbf{x}}$	a		MYSEAR
<b>i</b>	Platanus occidentalis	(e)	) R	3.5	6.5	46.0	)	= 3	1		3		July July
6	Platanus occidentalis	(d)	R	3.0	8.9	Missing		(0)		X	3		
7	Platanus occidentalis	œ.	) R	5.1	9.3	56.5		175	1		ブラ		UNK
3	Quercus michauxii	(i)	) R	7.1	7.6	44.0		60	1		3		0101
)	Asimina triloba	(i)	) R	7.0	4.5	28.0	, <u> </u>	25	1		<del>3</del>		
10	Carpinus caroliniana	(k)	) R	9.0	1.6	42.0	) <u> </u>	43			<b>1</b>	-	UNK
11	Platanus occidentalis	(1)	R	9.0	5.2	82.0	) <u> </u>	118 50		X	3		UNE
2	Platanus occidentalis	(h)	) R	6.0	0.6	29.5	, <u> </u>	411			3		<u> </u>
stems:	12 New Stems,	not includ	ed last	year, b	ut are o	byiously plant	ted. If more	space needed,	use blani	k PWS (I	<u> </u>	d Woody	Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Height DBI	H Vicer*	Dama		,	otes	<b>-</b> -	<del></del>
										$\neg$ $\vdash$			
		1					11	_		╗			
							$\dashv$ $\vdash$ $\dashv$			<b>─</b> │			
*Notes	by ID: 7-Insects	<u> </u>			_								

p. 1

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

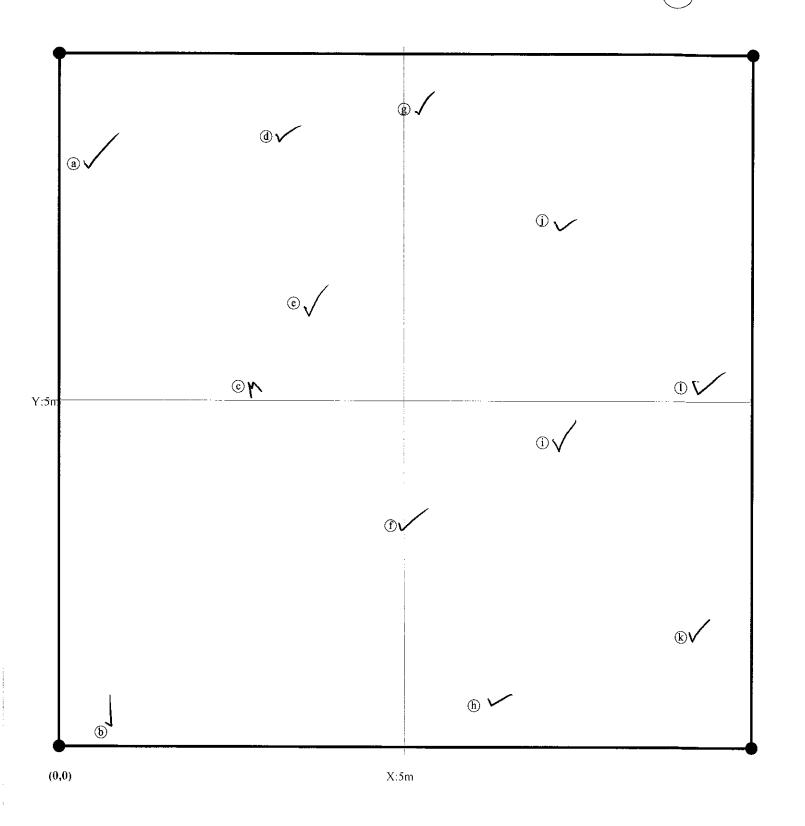
Plot	(continued):	95807-01-0001			Sep	2014 D	ata Z			T	HIS YE	EAR'S DATA
ID	Species	map source char	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH &	ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	Vigor* Damage* Notes

Natural Woody eight Cut-Off (All stems shorter t						<u> </u>	lanation of cuubsampling** cm. □ 50cn	:	m □ 13	7cm	
OLLI CHE OIL (THI STORES SHORE)				- HEIGHT			PLINGS —				— DBH
Species Name	√ c	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapl	0-1 cm	1-2.5	2.5-5	5-	=10 (write DBH)
week Dum				M::	对以:		<b>⊠</b> °	4			
y (almil			6 5 h	9 0	v		6 0				
morican Elan			ø	0	ø						
livad Elm			٥		0						
110m Ash							v				
ia Nut Hickory				0		<u></u>					
Atilian Oale J							ري				-
*Required if cut-off >10cm or subsan	ple	?100%		•1 •2	3 • •4	<b>0-0</b> 5	<b>1</b> 6	7	1219	<b>1</b> x110	Form WS2, ver

p. 2

**N** 

# stems: 12 map size: LARGE



<sup>\*</sup>SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE
Strangulation, UNKNown, specify other.

Plot	<u>95807-01-0002</u>					Part		Rol			planted		02/2014
VMD '	Year (1-5): 2 Date:	0114	11.	<u>7</u> -[	/	P	. Rayy	sair_	— Ne			te m/yy? ox if plot	
Taxono	omic Standard:	, , ,		<del></del>		<u> </u>	.De.Fra	Mesto	$ \frac{1}{N_0}$	tes: S	ampled,	specify r	was not eason below
Taxono	omic Standard DATE:								ШΓ			<u> </u>	
Latitud		36.369127		Dat	tum:	NAD83/W			<b></b>				
Longitu	(dec.deg. or m)  ide or UTM-E:	-78.575113		UT	M Zo	ne: 17			<b>—</b>				
	nate Accuracy (m):	1 X	-Axis	bearing	g (deg)	): 90							
_	Plot Dimensions: X:	10	Y:	10	Plo	ot has reverse or	ientation for	X and Y axis (	∐. Y is 90 o	legree	s to the	right of X	
	- <del></del>			· ·		Sep 2014 D					AR'S D		
		Мар	Source	* X	Y	Height	DBH CS	Height	DBH	Re-		Damage*	Motos
ID	Species Name	char		0.1m	0.1m	1cm*	l cm *	lcm*	1 cm	prout	V IgoI	Damage	Notes
13	Quercus nigra	<b>©</b>	R	2.0	1.5	Missing							Missing
14	Quercus nigra	<b>(d)</b>	R	2.3	3.8	89.0		711			3		INS
15	Cornus florida	a	R	0.6	5.9	33.0		60			3		
16	Cornus florida	<b>(b)</b>	R	1.6	8.9	24.5		47			3		
17	Nyssa sylvatica	(g)	R	3.6	8.8	65.0		40			2		VNK.
18	Nyssa sylvatica	e	R	3.2	6.0	55.0		CMA			0		Dend
19	Diospyros virginiana BW	Klyumi	R	6.3	9.8	47.0		4 00		X	23	wo	
20	Diospyros virginiana	h	R	6.0	6.8	54.0		56			3		
22	Quercus nigra	<b>(f)</b>	R	3.6	1.8	33.0		62			3		
23	Nyasa sylvatica Pevsiv	O NOMN	R	7.6	1.0	47.5		118			3		
24	Quercus nigra	<b>(k)</b>	R	8.0	3.0	Missing		108			3		
25	Diospyros virginiana	LEUD)	R	8.5	6.0	60.0		62			3		
26	Quercus nigra	`	R	9.3	9.0	27.0		96			3		
# stems:	13 New Stems, 1	not include			it are	obviously plante		space needed, u	se blank	PWS	(Plante	d Woody	Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Victor	Damage	e*	1	Notes		
	<u> </u>		$\bigcap$							7			
										<b> </b>			
							1			<b>- </b>	-		
											_		



p. 4

1=unlikely to survive year, 0=dead, M=missing.

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

9-14-15

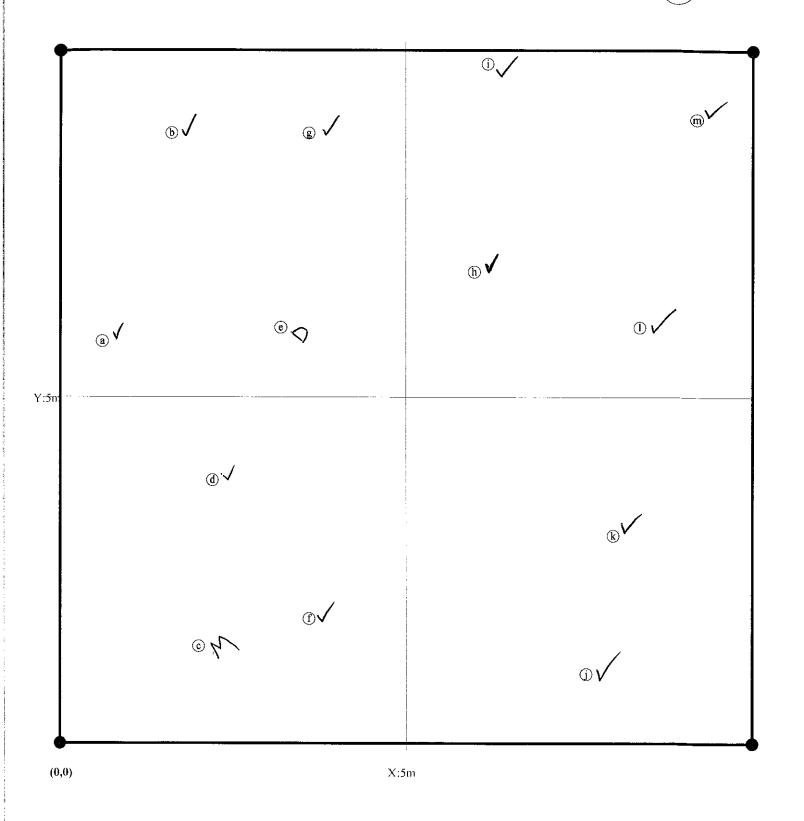
Sep 2014 Data THIS YEAR'S DATA Plot (continued): 95807-01-0002 DBH (cm) Y ddh Height ddh Height DBH Re- Vigor\* Damage\* Notes map source X ID Species char (cm) sprout (m) (m) (mm) (cm) (cm) (mm) (cm)

Natural Woody	,			· -		<u>&amp; \$1</u>	lanation of cu ubsam pling** cm □ 50cn		m □ 13	37cm		
		SEE	DLINGS —	- HEIGHT CLASSES		SAPLINGS — DBH			TREES — DBH			
Species Name	c	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)	
Sweet Sun			Ma	9- 0 9- 0								
Theen Ash				•								
Tilio Poplar			•									
								<u></u>				
										<u> </u>		
				<u></u>					<u> </u>			
Required if cut-off >10cm or subsa	mple	?100%	).	<b>●</b> 1 <b>●</b> 2	3 4	<b>••</b> 5	6	7	1279	<b>1</b> 10	Form WS2, ver	

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead,

p. 5 ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

N /|# stems: 13 map size: LARGE



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE
Strangulation, UNKNown, specify other.

Plot	95807-01-0003		Party: Role: Date last planted: 02/2014										
VMD Y	Year (1-5): 2 Date:		New planting date m/yy? / Check box if plot was not										
Taxono	omic Standard:	9/16		<del>, , , ,</del>			soda		Not				was not eason below
Taxono	omic Standard DATE:	_					estrano	esco	$ \Gamma$				
Latitud	e or UTM-N:	36.369446		Da	tum:	NAD83/W			_				
Longitu	(dec.deg. or m) ude or UTM-E;	-78.573453		U1	M Zo	ne: 17			_				
	nate Accuracy (m):	I X	-Axis	bearin	g (deg	):							
Plot Dimensions: X: 10 Y: 10 Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X													
Sep 2014 Data Z THIS YEAR'S DATA											· · · · · <del>_</del> -		
ID	Species Name	Map char	Sourc	e* X 0.1m	Y 0.1m	Height Icm*	DBH E	Height 1cm*	DBH 1 cm s	Re- prout	Vigor*	Damage*	Notes
27	Cornus florida	<b>(b)</b>	R	1.6	0.3	30.0					8		Dead
28	Quercus falcata	©	R	2.0	3.1	64.0		71			3		
29	Quercus michauxii	(a)	R	1.0	7.5	34.0		34			3		
30	Quercus nigra	<b>(d)</b>	R	2.3	9.0	51.5		48			3	taller	Stem broke H
31	Quercus nigra	<b>(f)</b>	R	5.0	6.0	47.0		id			3	7.71100	0
32	Cornus florida	<b>e</b>	R	4.0	2.0	Missing						MISS	100
33	Quercus falcata	<b>(g</b> )	R	5.3	9.3	65.0		80			3		or stemsdee
34	Liriodendron tulipifera	(i)	R	7.5	10.0	27.0		SI			3	1	
35	Cercis canadensis	<b>(j)</b>	R	7.9	7.5	32.0		-				M(35	1106
37	Quercus michauxii	Ъ	R	7.5	1.8	52.0		40			3		, , , , ,
38	Quercus nigra	(k)	R	9.3	5.2	44.0		33			3	taller	Stem die O
# stems:	11 New Stems, 1	not include	d last	-	ut are	obviously plante			se blank l	PWS	(Plante		Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm		Damage	*	1	Notes		
										$\sqcap$			
										7			
										7			
	·												

p. 7

1=unlikely to survive year, 0=dead, M=missing.

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

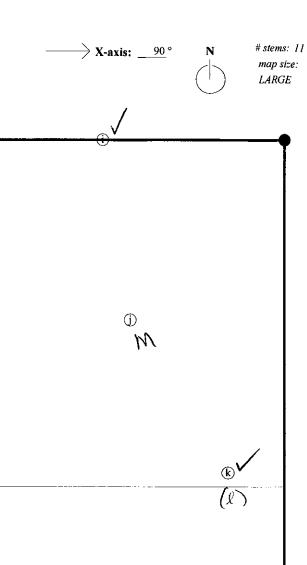
Plot	(continued): <u>95807-</u>	<u>·01-</u> (	<u>0003</u>			Sep :	2014 Da	ata	N			THIS	YEAR'	S DATA	
ID	Species		map s char	ource X (m)	Y (m)	ddh (mm)	Height (cm)	ata DBH (cm)	* (n	ldh Heigh nm) (cm)			te- Vigo rout	or* Dama	nge* Notes
Heig	Natural Wood tht Cut-Off (All stems shorte	•						right.)	<u>&amp; su</u>		: <u>*</u> : :m	□ 100c		37cm	
			SEE	DLINGS -	<u>— Н</u>	EIGHT	CLAS	SES	SAI	PLINGS -	<u> — D</u>	BH		TREES	DBH
	Species Name	<b>∀</b>	Sub- Seed	10 cm- 50 cm		0 cm- 00 cm	100 d 137	1	Sub- Sapl	0-1 cm	. 1	-2.5	2.5-	5-	=10 (write DBH)
	weel Thur			£ 6	0										
9	hem Ash			和,	•										
								·							
							·								
				i											
**Re	equired if cut-off >10cm or subs	ample	?100%	).		1 2	• 3 • •	<b>● ●</b> 4	<b>● ●</b> 5	6	7	118	<b>11</b> 9	10	Form WS2, ver 9.1

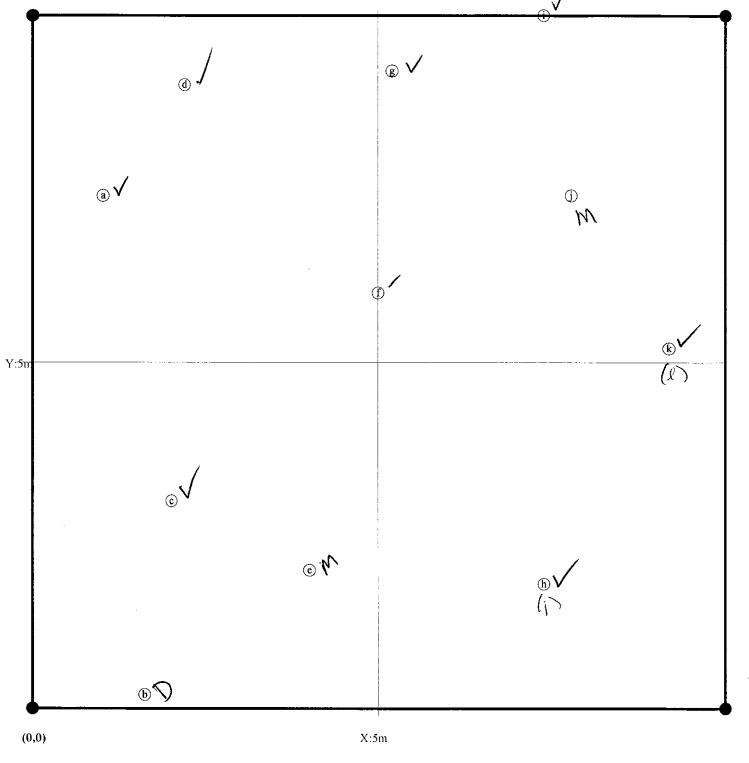
\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p.

\*VIGOR: 4=excellent, 3=good, 2=fair, l=unlikely to survive year, 0=dead, M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

p. 8





1=unlikely to survive year, 0=dead, M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown
\*VIGOR: 4=excellent, 3=good, 2=fair, \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAM \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Vegetation	Monitoring	Data	OMD	Datasheet
v egetation	MINITURE INTE	Data	( Y 171 D)	, Datasiicet

Please fill in any missing data and correct any errors.

Plot	<u>95807-01-0004</u>					Part		Ro		-		02/2014
VMD Y	Year (1-5): 2 Date:	9/14	7/19	7-1	/	<u> S</u>	cekula	)		_	te m/yy? [	/
Taxono	mic Standard:		· · ·	<u>.)                                      </u>		<u> </u>	200e				x if plot w specify re	as not ason below
Taxono	mic Standard DATE:					[ <u> </u>	<u>)e France</u>	1010				
Latitud	· · · · · · · · · · · · · · · · · · ·	36.368455		Dat	tum: N	AD83/W				and De	i juthe	youchle
Longitu	(dec.deg. or m) ide or UTM-E:	-78.574054		UT	M Zone	e: 17			Joh	LUL	sim.	
	nate Accuracy (m):	1 X	-Axis	 bearing	g (deg):	90			Very	duse	Johnson 2	grass is
	Plot Dimensions: X:	10	Y: [	10	☐ Plot	has reverse or	ientation for	X and Y axis	Y is 90 degree			m growth!
						Sep 2014 D			THIS Y			
		Man	Source	. X	Y	Height	요	Height	DBH Re-			
ID	Species Name	char	Source	0.1m	- 1	1cm*	1 cm *	1cm*	1 cm sprout	Vigor*	Damage*	Notes
41	Cornus florida	a	R	1.0	1.3	46.0		63	ПП	3		
42	Cornus florida	<b>(b)</b>	R	1.6	4.8	53.0		38		3		
43	Diospyros virginiana	©	R	3.3	9.8	38.0		109		ろ		
44	Diospyros virginiana	h	R	6.6	9.9	72.0		104		3	·	
45	Nyssa sylvatica	<b>(f</b> )	R	5.0	8.0	18.0		33		W03		
46	Quercus nigra	e	R	4.5	5.7	Missing				<del>                                     </del>	SING	
47	Quercus falcata	<b>d</b>	R	3.6	2.0	44.0		28		3	UNK	
48	Cornus florida	g	R	6.0	2.6	26.0		60		3	D/NF-	
50	Nyssa sylvatica	(k)	R	9.0	9.9	47.0		324189		Rone	3	
51	Diospyros virginiana	①	R	9.3	7.6	50.0	<b>`</b>	60		3		
52	Cornus florida	(i)	R	8.6	2.3	35.0		31		12	UNK	
53	Cercis canadensis Draw	ood i	R	8.0	5.0	38.0		24		اگ	UNK	
# stems:	12 New Stems,	not include	d last	year, bu	ıt are ol	bviously plante	d. If more s	space needed, u	ise blank PWS	(Plante		stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	1111	Damag	e*	Notes		
					ſ							
		$\parallel$			ľ		<del>      -</del>					
					ŀ							
					L						··	

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M=missing.

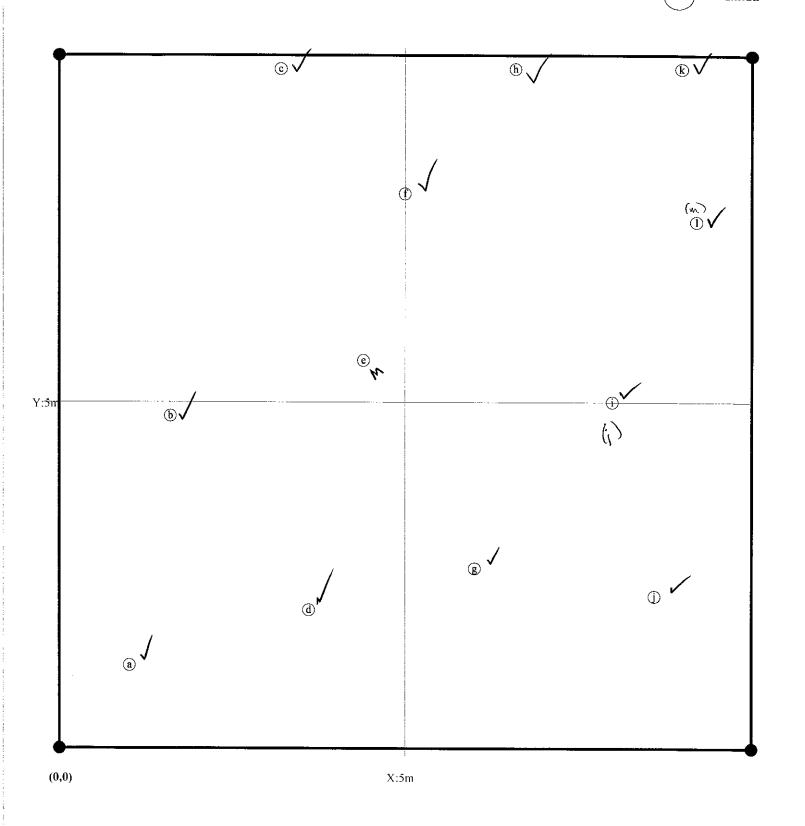
\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, l=unlikely to survive year, 0=dead, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot	(continued):	95807-01-0004			Sep	2014 D	ata ;	Z			T	THIS YEAR'S DATA
ID	Species	map source char	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	34.	ddh (mm)	Height (cm)	DBH (cm)	Re- Vigor* Damage* Notes sprout

ight Cut-Off (All stems short	er than								m □ 13		
		SEE		- HEIGHT	CLASSES	SA	PLINGS —	DRH		IREES	DBH
Species Name	<b>✓</b>	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Hickory			o								
			v	0							
Enew ASR Sist Gum			Ø 0				_				
		-									
					I						

# stems: 12 map size: LARGE



M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot <u>95807-01-0005</u>				<u> </u>										
VMD Year (1-5): 2 Date:	9110115-1	- Skekul	New New	planting date m/yy? / Check box if plot was not										
Taxonomic Standard:		Bode	Note	s; sampled, specify reason below										
Taxonomic Standard DATE:		- Clustin												
Latitude or UTM-N: (dec.deg. or m)		NAD83/W												
Longitude or UTM-E:	-78.573205 UTM Zoi													
Coordinate Accuracy (m):	1 X-Axis bearing (deg)	): 90												
Plot Dimensions: X:	10 Y: 10 Plo	ot has reverse orientation for	X and Y axis (Y is 90 de	grees to the right of X										
		Sep 2014 Data	THIS	YEAR'S DATA										
ID Species Name	Map Source* X Y char 0.1m 0.1m	Sep 2014 Data  Height DBH 1 cm* 1 cm *		e- Vigor* Damage* Notes										
54 Quercus nigra	(a) R 1.0 2.6	59.0	73 L	] 3										
55 Quercus nigra	(d) R 4.5 7.0	54.0	<u> </u>	MISSING										
56 Quercus michauxii	© R 4.4 4.0	49.0	103	] 3										
57 Quercus michauxii	g R 8.0 1.5	54.0		] 3										
58 Quercus michauxii	(f) R 7.6 4.0	52.0	52 [	3 INS										
60 Platanus occidentalis	j R 9.8 3.8	43.0	68	3 INSOM										
61 Quercus michauxii	h R 9.8 1.0	46.5	58	3 INS										
62 Quercus michauxii	<b>ⓑ</b> R 2.5 1.3	42.0	50	3										
65 Carpinus caroliniana	© R 7.2 7.1	69.0	97 [	3										
# stems: 9 New Stems, n		· -	pace needed, use blank P	WS (Planted Woody Stems) Form:										
Species Name Source* (m) (m) 1 cm* 1 cm Vigor* Damage* Notes														
		. IEx	planation of cut-off											
	ly Stems - tallied by	y species 🖊 🙎	subsampling**:											
Height Cut-Off (All stems shorte														
	SEEDLINGS — H		APLINGS — DBH	TREES — DBH										
Species Name	Sood 50 cm 1	0 cm- 100 cm- Sub- 00 cm 137 cm Sapl		2.5- 5- =10 (write DBH)										
Shan Cl (DWb)				( 22.1)										
Shipping State		A A-BY TA B O	9 0											
20073			1:											
Seet Sum			Marc											
hveen Ash (ront			Ximo											
Sycamore		v												
**Required if cut-off >10cm or subs	sample ? 100%.	1 2 3 44	5 106 107 108	9 Form WS2, ver 9.1										

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
l=unlikely to survive year, 0=dead,

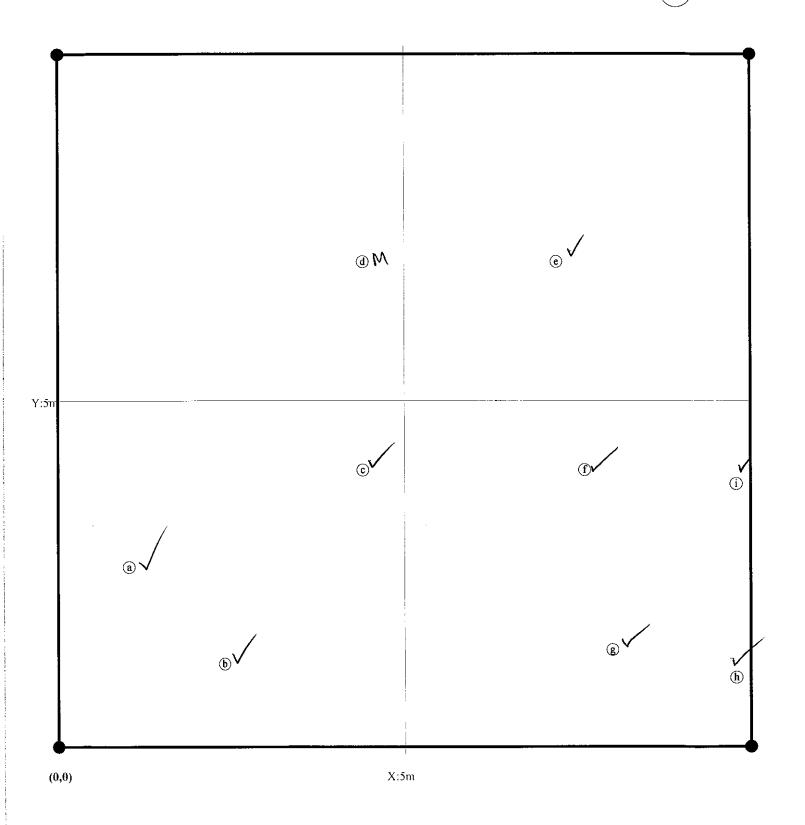
\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

11

<sup>\*</sup>HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

ightarrow X-axis:  $\overline{\phantom{a}90}$  °

# stems: 9 map size: LARGE



ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE 1=unlikely to survive year, 0=dead,

Strangulation, UNKNown, specify other. \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

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v egetation Monitoring Da	ta (v MLD) Da	atasneet		P	lease IIII in a	any missing a	ata and corr	ect any	errors.		
Plot <u>95807-01-0006</u>				Party		Role		-		02/2014	
VMD Year (1-5): 2 Date:	9/14	115	- 7	/ Sk	ekula)				ite m/yy?	/	1
Taxonomic Standard:	,,,,	,, ,			de				ox if plot v	was not eason below	
Taxonomic Standard DATE:					ze france	20		1	,,		1
Latitude or UTM-N:	36.367704	1	Datum:	NAD83/W			<b>_</b>				
(dec.deg. or m) Longitude or UTM-E:	-78.57375		UTM Zo	ne: 17							
Coordinate Accuracy (m):	1 X	Axis bear	ring (deg	): 90							
Plot Dimensions: X;	10 Y:		ā	ot has reverse orie	entation for I	X and Y axis (	Y is 90 degre	es to the	right of X		J
			<u></u>	Sep 2014 Da			THIS Y				=
	Map S	Source* >	ζΥ	<del>-</del>	DBH Es	Height	DBH Re-			<b>.</b>	
ID Species Name	char		m 0.1m	lcm*	1 cm *	1cm*	1 cm sprou	V igor*	Damage*	Notes	
69 Nyssa sylvatica	<b>(b)</b>	R 0	.6 0.3	59.0		57	П	12	UNK	<u>-</u>	ī
70 Quercus falcata	<b>(d)</b>	R 3	.0 4.6	49.0		62		13	VIVE		1
71 Nyssa sylvatica	(g)	R 5	.5 8.3	41.0		41		3			1
72 Quercus falcata	$^{\circ}$	R 6	.0 6.0	44.0		45		3			1
73 Diospyros virginiana	(i)	R 6	.3 4.0	76.0		78		3			1
74 Quercus nigra	e	R 3	.6 6.5	Missing					W1551	NB	1
75 Quercus nigra	<b>①</b>	R 7.03	0.0	46.0		39		3	ANIM		1
76 Quercus nigra	(j)	•	.6 1.0	16.0		21		3		1	1~
77 Cercis canadensis	1	R 8	.6 7.6	41.0		32		2	NNK		1
78 Nyssa sylvatica	<b>©</b>	R 1	.6 8.0	29.5		42		3	1	-	1
79 Cornus florida	(k)	R 7	.7 9.6	Missing					MISSIN	6	1
80 Quercus falcata	n	R 9	.6 9.7	50.0		94		3			1
81 Quercus nigra	$\bigcirc$	R 9	.6 3.6	8.0					W(551	NG.	1
82 Diospyros virginiana	<b>o</b>	R 9	.9 1.3	22.0		58		3			1
83 Nyssa sylvatica	<b>a</b>	R 0	.3 4.0	41.0		15		3			1
# stems: 15 New Stems,	not included	-	, but are	obviously planted	i. If more sp	ace needed, us	se blank PWS	(Plante	d Woody	Stems) Form:	-
Species Name	Source*	X Y (m) (m)		Height DBH 1 cm* 1 cm	Vigor*	Damage	*	Notes			
											1

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot (	(continued):	<u>95807-01-0006</u>			Sep	2014 D	16	<del>5</del>			T	HIS YI	EAR'S DATA	
ID	Species	map source char	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	7	ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	Vigor* Damage*	Notes

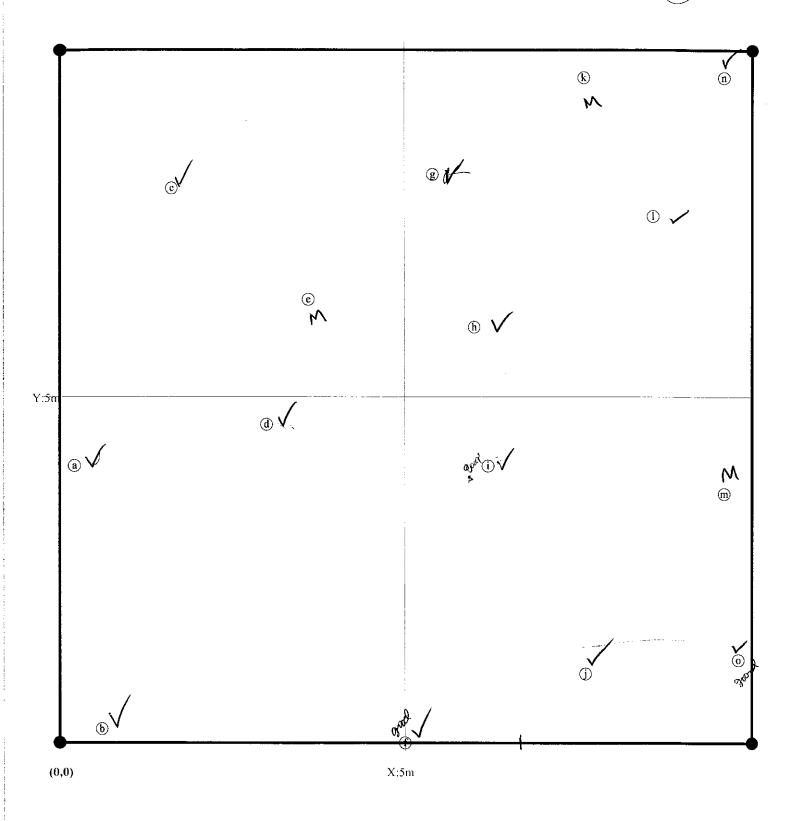
Natural Woo ight Cut-Off (All stems sho	-				4	<i>-</i>	ubsam pling** cm □ 50cm		m □ 13	7cm	
		SEE	DLINGS	- HEIGHT	CLASSES	SA	PLINGS —	DBH		TREES	— DBH
Species Name	<b>V</b>	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Nillow Oak			•								
green Ash			0								,
		_									
		_								<del> </del> -	
	<u> </u>		, i			_				_	
		_			<del></del>					_	<u> </u>

p. <u>1</u>6

M=missing.

ightarrow X-axis:  $ule{90}^\circ$ 

# stems: 15 map size: LARGE



M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE p. 17 Strangulation, UNKNown, specify other.

	Vegetation	Monitoring	Data (	VMD)	Datasheet
--	------------	------------	--------	------	-----------

Please fill in any missing data and correct any errors

Plot	95807-01-0007					Part	y:	Role: Date last planted: 02/2014
	Year (1-5): 2 Date:	9/17	-/ (	7.		$\overline{}$	Kekul	New planting date m/yy? /
	omic Standard:	111		<u> </u>			30de	Check box if plot was not
i	omic Standard DATE:	<u> </u>				<del></del>	Franco	Notes: sampled, specify reason below
	e or UTM-N:	36.36783		Do	tum:	NAD83/W		
	(dec.deg. or m) ude or UTM-E:	-78.572723			ιωπ. <sub>[</sub> ΓΜ Ζοι	CC04		
	nate Accuracy (m):	i x		bearin		_		
	Plot Dimensions: X:		Y: [	10			ientation for	or X and Y axis (Y is 90 degrees to the right of X
	<u> </u>							THIS YEAR'S DATA
ID	Species Name	char	Sourc	e* X 0.1m	Y 0.1m	Height 1cm*	Data Z DBH cs I cm *	Height DBH Re- Vigor* Damage* Notes 1cm* 1 cm sprout
84	Quercus nigra (MIght be 6	R. (5) @	R	0.2	0.3	40.0		40 03
85	Carpinus caroliniana	(A) (A) (B)	R	0.3	3.3	41.0		41 Da UNIC
87	Quercus nigra	©	R	2.7	8.3	22.0		25 D Q UNK
88	Carpinus caroliniana	(f)	R	3.0	9.3	Missing		- MISSING
89	Quercus nigra	(e)	R	3.0	0.3	41.0		58 3
90	Quercus nigra	(h)	R	7.0	1.1	44.0		44   3
92	Diospyros virginiana	(j)	R	7.5	10.0	27.0		59 1 3
93	Quercus falcata	①	R	9.9	8.0	16.0		29 3
94	Quercus falcata	<u> </u>	R	5.5	7.6	12.0		19 3
95	Quercus nigra	(d)	R	2.8	5.8	12.0		X MAKESTATE CAMP VIEW 3
97	Asimina triloba	(i)	R	7.3	5.0	Missing		- MISSING
98	Diespyros virginiana Ny	_	R	9.1	1.3	45.0		30 3 3 3
# stems:	12 New Stems, 1	not include	d last	year, b	ut are o	byiously plante	d. If more:	space needed, use blank PWS (Planted Woody Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Vice*	Damage* Notes
							$\neg \sqcap $	
							7	
							1	
	<del></del>							

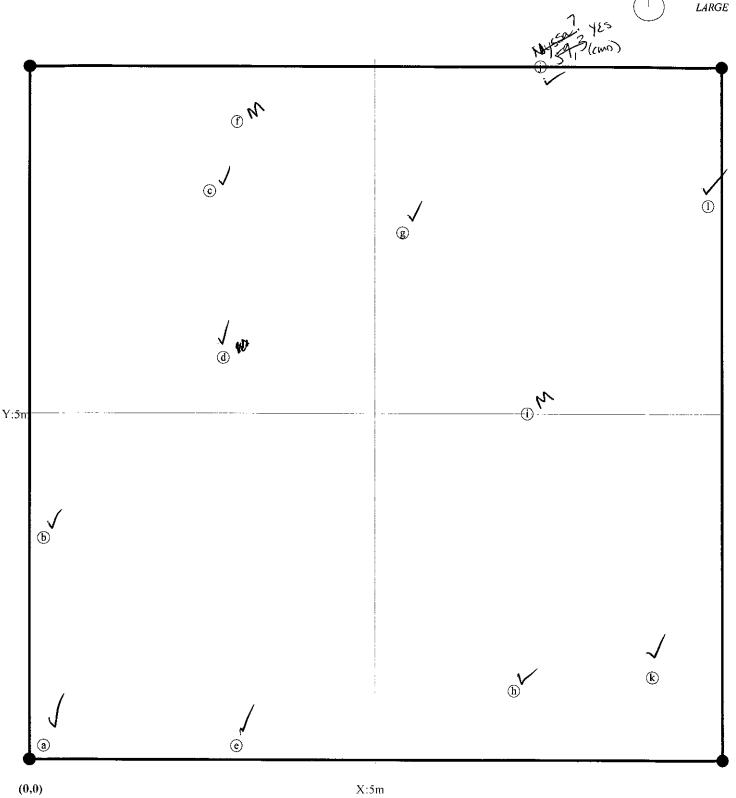
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M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plo	t (continued): 95807-0			Sep :	2014 D		Z			THIS	YEAR'S	DATA			
ID	Species		ap so har		Y (m)	ddh (mm) _	Height (cm)	DBH (cm)		đđh (mm)	Height (cm)		le- Vigo rout	or* Dama	ge* Notes
	Natural Woody							n right )	<b>7</b> &	<u>su bsa</u>	ntion of cut		m 🗆 13	37cm	
He	ght Cut-Off (All stems shorter t			DLINGS							NGS —				— DBH
	Species Name		Sub- Seed	10 cm- 50 cm	5	0 cm- 00 cm	100		Sub- Sapl	0	-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
_	Sweet Jum	-		NDN	0 3 0										
	Gren Ash	-		対に	9 (										
<del></del>	Stirpping Clin	-		8 T	•				_						
	Sucamore			4					_	<u> </u>					
$oxed{\sum}$	Millow Oak	-		0			<u> </u>			<u> </u>				<u> </u>	
		]-			L				<u> </u>						
		<u> </u>	[		<u> </u>		<u> </u>		<u> </u>	<u> </u>	<u></u>	<u> </u>	<u> </u>		<u>.                                    </u>
**	Required if cut-off >10cm or subsar	nple?	100%		•	1 2	3	• • 4	0.0	5	6	7	127	KIO	Form WS2, ver 9.1
	Sweed ofun(a	h	)	NN											



\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

1=unlikely to survive year, 0=dead,

M=missing.

<sup>\*</sup>HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

## Vegetation Monitoring Data (VMD) Datasheet

Please fill in any missing data and correct any errors.

Plot 9	95807-01-0008						arty:				t plante		02/2014	
VMD Y	ear (1-5): 2 Date:	9/17	1/14	7-[	/		Sekulo	<u>0</u>	1			ite m/yy?	/	_
Taxonor	nic Standard:					<u> </u>	Bode		,			ox if plot snecify r	was not eason below	
Taxonor	nic Standard DATE:						De Fran	cesco	l î		, ,	, - <u>F</u>	***************************************	$\neg$
Latitude		36.367745		Da	tum:	NAD83/W				Pri	<b>V</b> (†:			
Longitue	(dec.deg. or m) de or UTM-E:	-78.572095		רט 🦳	ں M Zoi	ne: 17				1				
_	ate Accuracy (m):	1 X	(-Axis	 bearin	g (deg)	: 90			]					
	Plot Dimensions: X:		Y: [	10		L	orientation for	or X and Y ax	is (Y is 9	) degree	es to the	right of X	ζ	ᅫ
						Sep 2014					EAR'S I			
		Мар	Source	.* X	Y	Heigl	12	Heigl		Re-		Damage*	35-4	
ID	Species Name	char	Source	0.1m	0.1m	lem	* 1 cm *	1cm		sprout	Vigor	Damage*	Notes	
100	Asimina triloba NVSS	, <b>a</b>	R	0.0	2.6	34	.5	5	f l	П	13		T T	=
	Nyssa sylvatica	Ъ	R	0.2	5.5	55	.5	997			3			
102	Cornus florida	<b>(d)</b>	R	2.6	8.5	30	.0	<b>多</b>			3			4
103	Liriodendron tulipifera	<b>e</b>	R	3.6	5.2	28	.0	34			3			$\neg$
104	Cornus florida	(g)	R	4.6	1.6	13	.0	110		X	13	1		$\dashv$
105	Platanus occidentalis	①	R	4.7	0.0	134	.0 DBH?	20	5 1.24		3	<u> </u>		ヿ
106	Liriodendron tulipifera	(i)	R	7.5	1.3	Missin	g [		-			\$ING		$\neg$
107	Quercus falcata	(j)	R	7.6	5.3	52	_	7	<u>,                                    </u>		3	1"		一
108	Liriodendron tulipifera	h	R	5.6	10.0	41	.5				ъ	Dea	<i>(</i> )	
109	Quercus nigra	(k)	R	9.0	9.1	30	).5 <u></u>	~			_		tis a willo	22.00
110	Diospyros virginiana	uksa @	R	9.2	7.1	55	.0	52	.		3	F - F 3-3	1713 32 33/10	~~~
111	Quercus michauxii	T	R	9.3	2.6	53	.0	7	2		13			
112	Diospyros virginiana	©	R	10.0	4.5	Missin	g 🗆				+	1116	<u> </u>	
# stems:	13 New Stems,	not include	d last	year, b	ut are o		nted. If more	space needed	l, use blar	ık PWS			Stems) Form:	
Species	Name	Source*	X (m)	Y (m)		Height DI	BH cm Vigor*	Dam	age*		Notes			
		$\neg \vdash \neg$						:						$\neg$
												_		7
													<u> </u>	7
						<del></del>								_

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M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, l=unlikely to survive year, 0=dead, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

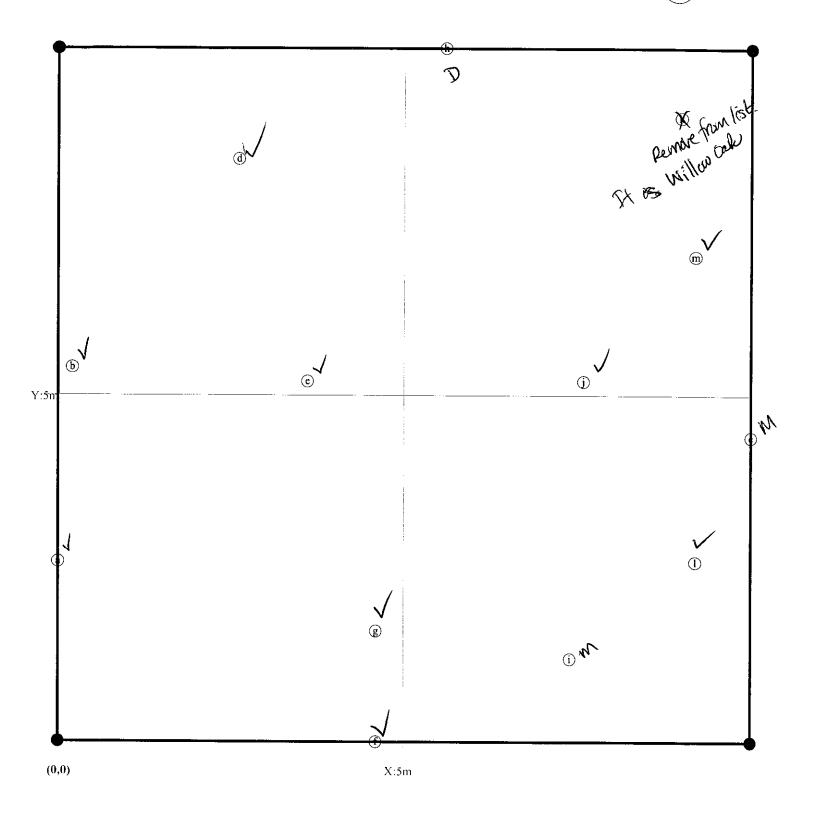
Plot	(continued): 95807-0	1-(	<u>0008</u>			Sep	2014 Da	ıta	No	-	•	THIS	YEAR'S	S DATA	
ID	Species		map s char		Y m)	ddh (mm)	Height (cm)	ita DBH (cm)	es*	ddh Hei mm) (ci	_		Re-Vigo rout	or* Dama	nge* Notes
Heig	Natural Woody tht Cut-Off (All stems shorter t				•	_		right.):	<b>₹</b>	olanation o subsamplin	<b>2**</b> :	_	: <b>m</b> □ 1:	37cm	
			SEE	DLINGS —	- HE	IGHT	CLAS	SES	SA	PLINGS	— D	BH		TREES	— DBH
	Species Name	c	Sub- Seed	10 cm- 50 cm		cm- 0 cm	100 c		Sub- Sapl	0-1 cı	n 1	1-2.5	2.5-	5-	=10 (write DBH)
7	eliso Podar		_	y f	۵					İ					
1/	heen Ash			ANN	M	1									
	noted There			II.	Ø										
B	Jack Cherry			٥											
	reamore			<b>这</b>											
	includ dom			to	٠										
	sillas ook			o											
	equired if cut-off >10cm or subsan	nple	?100%	),	•1	<b>●</b> 2	3	<b>4</b>	<b>● ●</b> 5	6	107	118	127°	<b>1</b> 0	Form WS2, ver 9.1
(	Green Ach (cont			П											

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE
Strangulation, UNKNown, specify other.

**N** ∕|\_ # stems: 13 map size: LARGE



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

3all and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE

Strangulation, UNKNown, specify other.

Vegetation Monitoring Data (VMD) Datashee
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	getation withintoning Da	ta (VIVID) i		iicci				1 icase ini ii	n any missing	uata an	u corre	ct any t	errors.	
Plot	<u>95807-01-0009</u>						Par	- · ·				t planted		02/2014
VMD Y	Year (1-5): 2 Date:	9/16	11	<b>₹</b> ]-	/	/	ᄀᅜ	Skekul	20	\^			te m/yy?	<u></u>
Taxono	mic Standard:	<del></del>					ᅱᆣ	<u>Bode</u>		\ \  \[ \]			x if plot specify re	was not eason below
Taxono	mic Standard DATE:							ze Gran	600			_		punese
Latitud	e or UTM-N:	36.366921		Da	atum:	NAD83/	$\overline{\mathbb{Q}}$							trownery
Longitu	(dec.deg. or m) ide or UTM-E:	-78.573418		U	TM Zo	ne: 17	╗				•	11	2	1 I
	nate Accuracy (m):	l X	-Axis	bearin	g (deg)	):	90			[			trees	1
	Plot Dimensions: X:	10	Y:	10	□ Pla	ot has re	 everse o	rientation for	r X and Y axis	/V is 90	) degree	>OW es to the	istu	
									T A GIT T GATS					
		Man		v	v	Sep	2014 I	<u> </u>	17 1 1			EAR'S E		
ID	Species Name	Мар char	Sourc	e* X 0.1m	Y 1 0.1m		Height 1cm*	DBH 🥳	Height 1cm*	DBH 1 cm	Re- sprout	Vigor*	Damage*	Notes
113	Cornus florida	(a)	R	0.2	0.2		36.0	)	42	. ]		13		
114	Quercus falcata	<b>(b)</b>	R	0.6	3.6		57.0		92	<b></b>	H	13		<del>                                     </del>
115	Diospyros virginiana	<b>(f)</b>	R	3.2	26	3 0	69.0	_	64	╁	╁┾╅	3		_
116	Nyssa sylvatica	<u>.</u> (g)	R	3.4		<b>~-</b> 0	42.0		42	╁┈╌╴	╫	17	UNK	
117	Quercus nigra	(h)	R	3.9	9.3		70.0	_	106	<del>                                     </del>	╫	3	0141-	<u> </u>
118	Diospyros virginiana	(i)	R	5.6	3.5		59.0	)	40	+	╫	3	DEER	
119	Nyssa sylvatica	(i)	R	6.0	7.3		49.0		51	†		3	Deck	
120	Nyssa sylvatica	(n)	R	9.8	9.0		31.0	)	42	+	╫	3		
121	Cornus florida	<u>e</u>	R	10.0	7.0		33.0	)	6	╁	H	13		
122	Diospyros virginiana	(k)	R	7.6	5.6		85.0	)	30	1	╫	13	VIALE	-honeyswale
123	Quercus nigra	1)	R	8.3	1.6		55.0	)	WX 890		<del>         </del>	3	11140	strangue 12.
124	Cercis canadensis	<b>(d)</b>	R	10.0	4.0		Missing			1			551NG	
125	Diospyros virginiana	m	R	8.3	8.6	nk	72.0		122			3	ma	
126	Cercis canadensis	©	R	X	~8X	48	18.0		40	cino		301.3	HNK	
# stems:	14 New Stems,	not include	d last	year, b	out are	obvious	ly plant	ted. If more	space needed,			)	<u> </u>	Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Heigh		Vicor*	Dama	ge*		Notes	•	
- Specie	2 . WILLY		(111)	(m)		i cin	* 1 cn							
		╢─┤		$\vdash$			┪	$\dashv \vdash \vdash \vdash$						
		╢─┤					╁┈	┪┝═╅						

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p. 24

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot (	(continued): <u>95</u>	807-01-0	<u> </u>			Sep	2014 D	ata	Notes			Tŀ	IIS YE	AR'S E	)ATA	
ID _	Species		map se char		X Y m) (n		Height (cm)	DBH (cm)	- 4		Height (cm)	DBH (cm)	Re- sprout	Vigor*	Damag	e* Notes
Heigl	Natural Woody Stems - tallied by species    Explanation of cut-off															
			SEE	DLINC	ss —	Неіснт	CLAS	SES	SA	PLIN	GS —	DBH		Tı	REES -	– DBH
	Species Name	<b>☑</b> c	Sub- Seed	10 c 50 c	t t	50 cm- 100 cm	100 137		Sub- Sapl	0-1	cm	1-2.5	5 2	.5-	5-	=10 (write DBH)
$\overline{Sw}$	cet Ihuw			0												

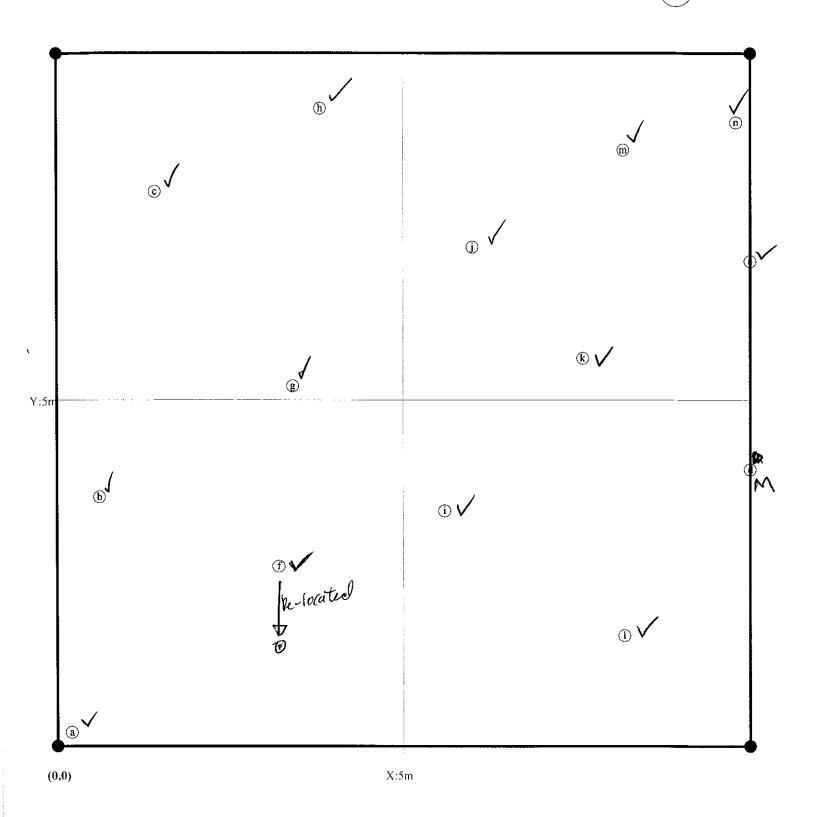
\*\*Required if cut-off >10cm or subsample?100%.

\$\$\frac{1}{2}\$\$ \$\$\frac{1}{2}\$\$ \$\$\frac{1}{2}\$\$ \$\$\frac{1}{2}\$\$

Form WS2, ver 9.1

M=missing.

# stems: 14 map size: LARGE



<sup>1=</sup>unlikely to survive year, 0=dead, M=missing.

<sup>\*</sup>SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Vegetation	Monitoring	Data (	(VMD)	Datasheet
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Please fill in any missing data and correct any errors.

Plot	<u>95807-01-0010</u>			-		Part		Role: Date last planted: 02/2014
VMD	Year (1-5): 2 Date:	9/17	۲/ <u>۱</u> :	7-[	/	- / S	cekula	New planting date m/yy? /
Taxono	omic Standard:						Bode	Check box if plot was not Notes: sampled, specify reason below
Taxono	omic Standard DATE:						thane	
Latitud	e or UTM-N:	36.367226		Da	tum:	NAD83/W		Japenese hongysuchle
Longiti	(dec.deg. or m)  ide or UTM-E:	-78.572113		UT	M Zo	ne: 17		Japenese honemucke! Dolder present, rucke!
	nate Accuracy (m):	1 X	Z-Axis	bearing	g (deg	): 90		
	Plot Dimensions: X:	<u> </u>	Y:	10			ientation for	X and Y axis (Y is 90 degrees to the right of X
	<u> </u>	· · · · ·				Sep 2014 D	ata Z	THIS YEAR'S DATA
ID	Carolina Nome	Мар	Sourc	e* X	Y	Height	DBH 5	Height DBH Re- Vigor* Damage* Notes
ID	Species Name	char		0.1m	0.1m	1cm*	1 cm *	1cm* 1 cm sprout
127	Platanus occidentalis	<b>(f)</b>	R	3.6	0.1	72.0		141 10,4 1 3
128	Quercus michauxii	(g)	R	4.0	8.9	62.0		<b>13</b> 3
129	Quercus michauxii	<b>(b)</b>	R	0.3	8.0	56.0		(a4) 13
130	Liriodendron tulipifera	<b>©</b>	R	2.8	6.4	36.0		(A)   13
131	Liriodendron tulipifera	<b>a</b>	R	0.3	2.3	33.5		( <del>24</del>
132	Quercus nigra	1	R	8.8	5.0	55.0		58 3
133	Asimina triloba	<b>©</b>	R	0.5	4.8	18.0		20 3
134	Carpinus caroliniana	(i)	R	5.8	5.4	33.0		29 113
135	Asimina triloba	h	R	5.3	2.6	10.0		19 3 NS
136	Asimina triloba	<b>(d)</b>	R	2.6	3.2	16.0		17   3
137	Liriodendron tulipifera	$\langle \mathbf{k} \rangle$	R	8.9	2.6	Missing		MSSING
138	Carpinus caroliniana	<b>①</b>	R	6.5	8.0	55.0		99 1 3
139	Carpinus caroliniana	m	R	9.8	6.8	54.0		33 1 3
# stems:	13 New Stems, 1	not include	d last	year, bu	it are o	bviously plante	d. If more s	space needed, use blank PWS (Planted Woody Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Height DBH	Vigor*	Damage* Notes

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE
Strangulation, UNKNown, specify other.

Plot (	continued):	95807-01-0010			Sep	2014 D	ata	Š			T	HIS YEAR'S DATA	
ID	Species	map source char	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ites*	ddh (mm)	Height (cm)	DBH (cm)	Re- Vigor* Damage* Notes sprout	

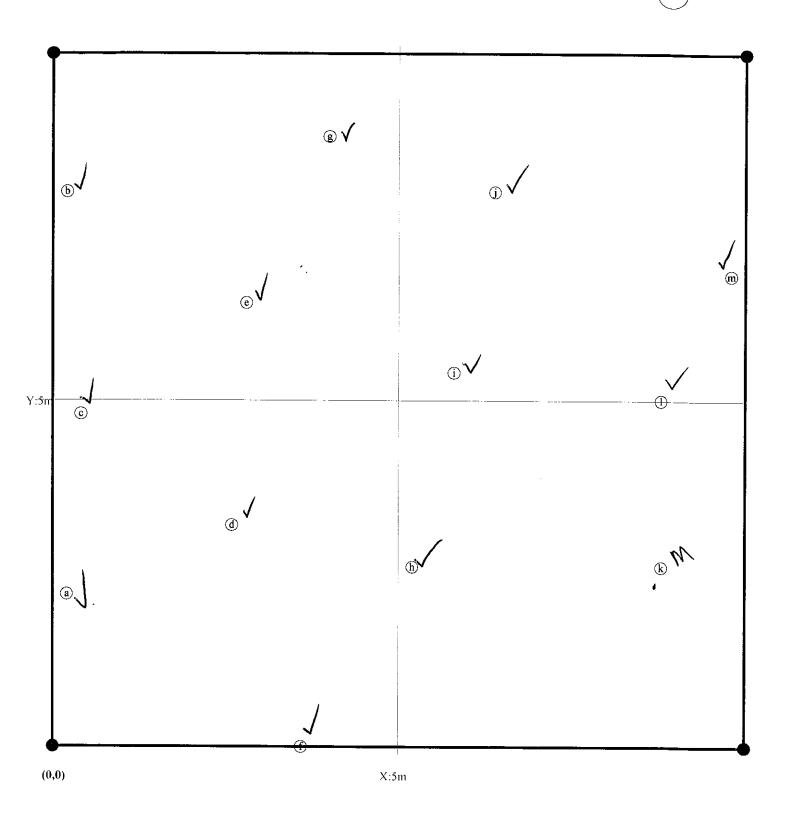
ight Cut-Off (All stems shorter t	han										
		SEE	DLINGS —	- HEIGHT	CLASSES	SA	PLINGS —	DBH		<u> rees</u>	— DBH
Species Name	<b>√</b>	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Sweet Im			LIK	<b></b>			0	<b>₽</b> )			
Stippenstim											
Syramore									0		
Hack Chemis											
Thew Ash			8			<u> </u>				<u> </u>	
										<u> </u>	
	1				1					l '	

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
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ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

# stems: 13 map size: LARGE



1=unlikely to survive year, 0=dead, M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown p. 29 ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

•														
V	egetation Monitoring Da	ta (V	MD) Da	atasho	eet		Plea	se fill in any						207014
Plot	95807-01-0011	•			_		Party:		Role			planted:	e m/yy? [	)2/2014
	Year (1-5): 2 Date:	9	117	115	7- [	/	, , ,	ula _	— <del>}</del>	—  Ne			x if plot w	ras not
	omic Standard:	H					Bod			<u> No</u>	tes: Sa	mpled,	specify rea	ason below
	omic Standard DATE:	$\vdash$					Defr	masic	<del>-</del>	<b>-</b> ∤[		<del></del> '		
	de or UTM-N:	36.3	66447		Date	ım: N	AD83/W							
	(dec.deg. or m) tude or UTM-E:	-78.	572346		 UTI	⊐ M Zono	e: 17							Į į
	inate Accuracy (m):	-	1 X-	Axis	 bearing	(deg):	90							
	Plot Dimensions: X:		10 Y	·: [	10	Plot	has reverse orient	tation for X ar	nd Y axis (	∟ • Y is 90	degree	s to the	right of X	
												EAR'S D		
			3.4		* X	Y	Sep 2014 Data Height D	og	Height	DBH	Re-		Damage*	Notes
ID	Species Name		Map char	Source	* 0.1m		1 cm* 1	cm *	1cm*		sprout	V igoi	Daniage	Trotes
140	Juglans nigra		<u> </u>	R	1.0	0.4	Missing			Ĭ		M(S	ING.	
141	Juglans nigra		œ œ	R	3.4	0.2	Missing						51N9	
142	Liriodendron tulipifera		(k)	R	5.8	0.0	Missing						PING	
143	Platanus occidentalis		(i)	R	4.8	2.8	84.0		145	004		3		
144	Platanus occidentalis	•	<u></u>	R	7.8	2.6	28.0		49)			2	other	conded
145	Asimina triloba	•	(d)	R	10.0	2.0	26.0		al		X	3		
146	Liriodendron tulipifera		<u>(i)</u>	R	5.5	5.3	Missing					MI:	SSING	
147	Liriodendron tulipifera		(f)	R	3.0	6.0	20.0		33			13		<b></b>
148	Liriodendron tulipifera		(a)	R	0.2	6.4	15.0		10		X	3		
149	Carpinus caroliniana		<u>(</u>	R	0.5	8.8	Missing					MIS	5116	
150	Liriodendron tulipifera		(h)	R	3.4	8.5	Missing					MIS	SINC	<b>1</b>
151	Quercus nigra		m	R	6.6	8.3	68.0		68			3		
152	Quercus michauxii		<u></u>	R	8.8	8.3	Missing					MI	\$57N	<u> </u>
153	Diospyros virginiana		(r)	R	9.5	9.8	100.0		130			3		
154	Platanus occidentalis		(n)	R	7.6	9.9	41.0		71			3		

1 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form: # stems: 18 Height DBH Notes Vigor\* Damage\* Source\* Species Name (m) (m) 1 cm\* 1 cm

41.0

20.0

89.0

5.8

2.6

2.2

6.0 9.0

R

R

**(e)** 

p. 30

1=unlikely to survive year, 0=dead,

Platanus occidentalis

Liriodendron tulipifera

Carpinus caroliniana

155

156

689

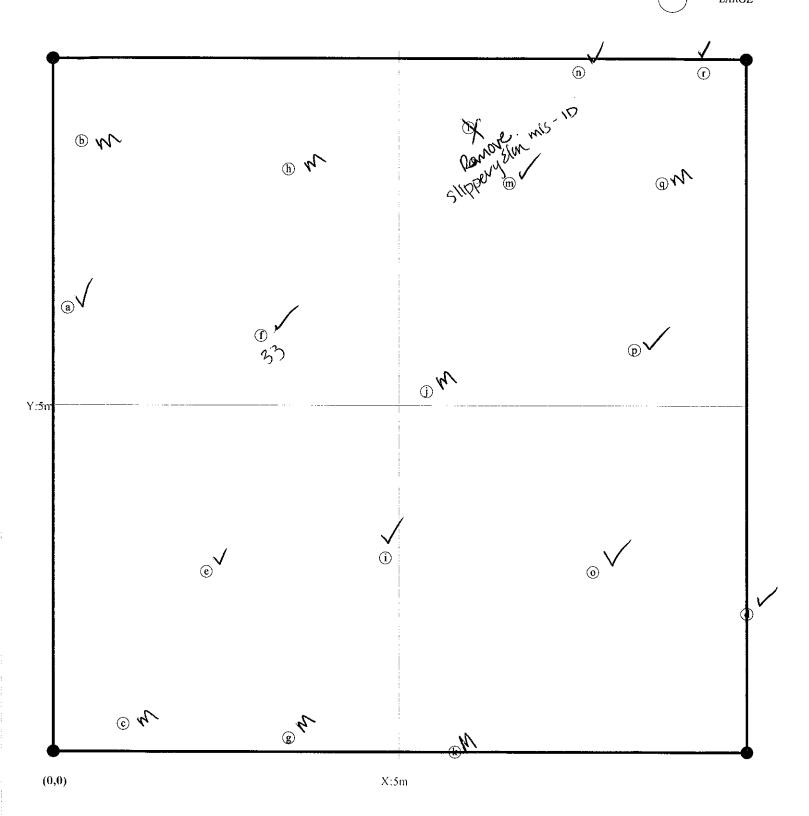
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

M=missing. \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (	continued):	<u>95807-01-0011</u>			Sep	2014 D	ata Z			T	HIS YE	AR'S D	ATA	
ID	Species	map source char	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH 🛱	ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	Vigor*	Damage*	Notes

Natural Woody  [eight Cut-Off (All stems shorter						<u> </u>	olanation of cur subsampling**	<del></del>	m 🗆 13	37cm	
<del>"</del>		SEE	DLINGS —	- HEIGHT	CLASSES	SA	PLINGS —	DBH	,	TREES	— DBH
Species Name	<b>✓</b>	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
SUCALMOTE				ê	٠		ت ن ق				
Slippery Elm	,		v v	8							
Theen Akh				•	e e						
Sweet Open				ø							
)											
*Required if cut-off >10cm or subsa	mple	? 100%		<b>●</b> 1 <b>●</b> 2	● 3 ● ●4	● ●5	<b>9-6 9</b>	7 118	<b>1</b> 29	<b>1</b> 10	Form WS2, ver 9

M=missing.



M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

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\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE p. 32 Strangulation, UNKNown, specify other.

\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot	<u>95807-01-0012</u>						Party: Role: Date last planted: 02/2014							
VMD '	Year (1-5): 2 Date:	9/16	) / (<	<del>-</del> [-	/	· I	Cefail	ر د			ate m/yy?	/		
Taxono	omic Standard:		1,,	<del>,</del>		B	<u>nder</u>				ox if plot v	was not eason below		
Taxono	omic Standard DATE:						Fran	Ceoco						
Latitud	e or UTM-N:	36.365744		Da		NAD83/W								
Longitu	(dec.deg. or m)  ide or UTM-E:	-78.572827	1	U1	M Zo		<del>-</del>							
_	nate Accuracy (m):	1 X	(-Axis	bearin	g (deg)	): 90								
L	Plot Dimensions: X:	10	Y:	10	☐ Plo	ot has reverse orie	ntation fo	r X and Y axis (Y is	90 degree	s to the	right of X			
					·	Sep 2014 Da	2014 Data THIS YEAR'S DATA							
ID	Species Name	Map char	Source	e* X 0.1m	Y 0.1m	Height 1 cm*	DBH S *	Height DBI 1cm* 1 cm		Vigor*	Damage*	Notes		
157	Quercus nigra	<b>(b)</b>	R	1.0	3.6	Missing					MISS	M6		
158	Carpinus caroliniana	a	R	0.3	4.3	Missing					MISS	<del></del>		
159	Liriodendron tulipifera	<b>©</b>	R	3.0	8.3	Missing					M(55			
160	Quercus michauxii	(f)	R	4.6	10.0	50.0		105		3	VINE			
161	Platanus occidentalis	(g)	R	6.1	2.5	Missing					MISS	1N6		
162	Quercus michauxii	<b>(d)</b>	R	3.6	4.3	35.0					M155			
163	Liriodendron tulipifera	<b>e</b>	R	4.3	1.3	Missing					MISS	_		
164	Quercus michauxii	h	R	6.6	4.0	36.0		46		3				
165	Liriodendron tulipifera	(j)	R	7.3	1.2	Missing					MISS	ING		
166	Liriodendron tulipifera	1	R	9.6	1.6	Missing					M(SS			
167	Quercus nigra	(k)	R	9.3	4.6	49.0		52		3	1	<del>* 13 \                                  </del>		
168	Asimina triloba	<b>(i)</b>	R	9.0	8.6	Missing					M(SS	10/6		
# stems:	12 New Stems,	not include		year, b	ut are o		. If more	space needed, use bla	ank PWS	(Plante				
Specie	s Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Vigor*	Damage*	1	Notes				
								****	<b> </b>					

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE M=missing.

p. 33 Strangulation, UNKNown, specify other.

<sup>\*</sup>HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot	(continued):	Sep	Sep 2014 Data				THIS YEAR'S DATA							
ID	Species	map source char	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	¥ .	ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	Vigor* Damage*	Notes
								Ex	nlanat	ion of ent	-∩ff			

Natural Woo eight Cut-Off (All stems shor	•					<u> </u>	lanation of cusubsam pling** cm □ 50cm		m □ 13	37cm	
			DLINGS —				PLINGS —	DBH	· ′	TREES	— DBH
Species Name	<b>V</b>	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapi	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
		_									
			!								
*Required if cut-off >10cm or su	bsample	?100%		<b>●</b> 1 <b>●</b> 2	3 • •4	<b>● ●</b> 5	<b>1</b> 6 1	7 118	<b>121</b> 9	<b>1</b> 10	Form WS2, ver

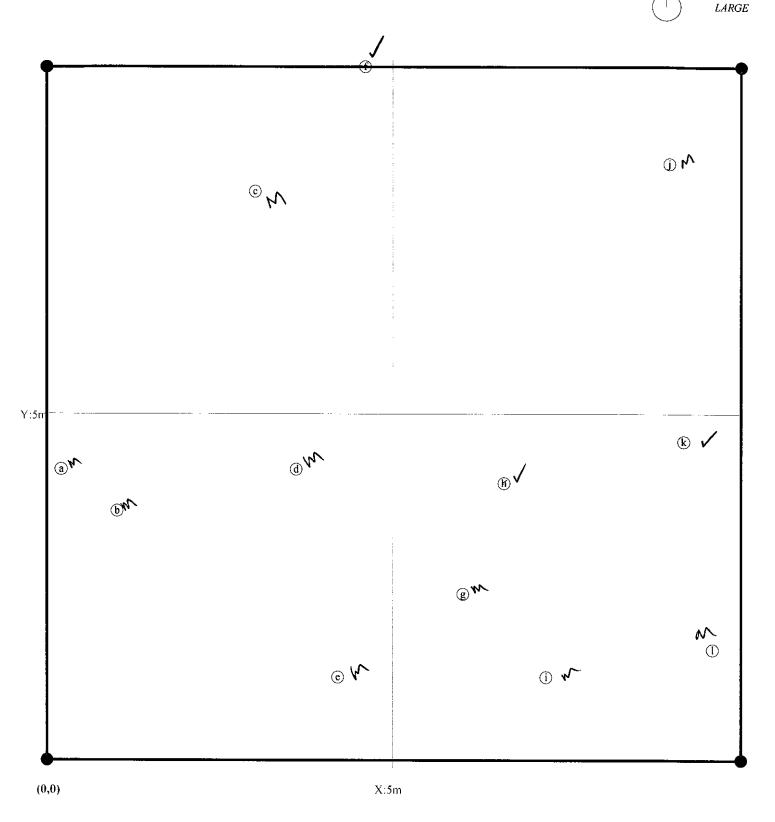


M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

X-axis: 90° N # stems: 12 map size:



\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE

M=missing. Strangulation, UNKNown, specify other.

1=unlikely to survive year, 0=dead,

p. 35

Plot	95807-01-0013					P	arty:		Role			planted		02/2014	_
VMD Y	Year (1-5): 2 Date:	9/17	-/ 1	7-1	/	.	3 kele	ul	ر ه	Ne	_		te m/yy? x if plot v	/	∟∟
Taxono	mic Standard:		•	<del></del>			Dodge	<u> </u>		$\perp$ <sub>No</sub>				was not eason below	
Taxono	mic Standard DATE:						D.Fr	un	0000	$ \Box$	ok	<u> </u>	<del></del>	0.00 000	F
Latitud		36.365948		Da	tum:	NAD83/W				<u>ا</u> اـــ	~!> }}	T) .		dingazi	
Longitu	(dec.deg. or m) ide or UTM-E:	-78.571894		U.	ΓM Zoi	ne: 17				_الـ	-	( ev	with	er Dercicu	٦ <u>-</u>
_	nate Accuracy (m):	1 X	(-Axis	bearin	g (deg)	: 90 L				₹	vivo	t el 1	bush fil	Adria	
	Plot Dimensions: X:	10	Y:	10	☐ Plo	t has reverse	orientatio	n for	X and Y axis (Y	Y is 90 c	legree	s to the	right of X	tora rose	
						Sep 201	4 Data	Ž	·	TH	IS YE	AR'S D	ATA	<del></del>	
ID	Species Name	Map char	Source	e* X 0.1m	Y 0.1m	Heig len		Notes*		DBH 1 cm s	Re- sprout	Vigor*	Damage*	Notes	
170	Quercus falcata	a	R	0.3	6.1	23	3.0			T	П	0		Devo	╗
171	Cornus florida	<b>(b)</b>	R	1.0	9.7	Missir	ng		-			MIS	Stran	<i>1</i>	
172	Liriodendron tulipifera	<b>e</b>	R	3.8	2.3	18	8.0		20			12	UNK		
173	Cercis canadensis	<b>(d)</b>	R	3.6	5.2	20	0.0		17		X	ı	UNK	arvoted	
174	Quercus falcata	g	R	6.6	5.0	18	8.0		<u></u>	1		MŠ			$\exists$
175	Quercus falcata	<b>(i)</b>	R	9.0	4.3	39	9.0					MKS	_		
176	Quercus nigra	<b>(h)</b>	R	8.8	2.4	3′	7.0					MISS			╗
178	Quercus nigra	(f)	R	4.6	8.8	4	4.0		43			a	<del></del>		
180	Cornus florida	(j)	R	9.8	8.0	(	6.0					MIS	1NG		
181	Cornus florida	<b>©</b>	R	2.5	8.8	3:	3.5					0		Dead	٦
# stems:	10 New Stems,	not include	d last X	year, b Y	ut are o		inted. If m	ore s	space needed, us	e blank	PWS	(Planted	l Woody	Stems) Form:	
Specie	s Name	Source*	(m)	(m)			cm Vig	or*	Damage <sup>a</sup>	*		Notes			
									·						
											╝				

Plot was very very overgrown, which made fording flags of stems hard to find. Missing stems may just be hard to locate.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

p. 36

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead,

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, iNSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

<sup>\*</sup>HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot (	continued):	95807-01-0013			Sep 2014 Data			:			Tl				
ID .	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	Ccm)		ddh mm)	Height (cm)	DBH (cm)	Re- sprout	TIGOI DAIIIAEC	Notes

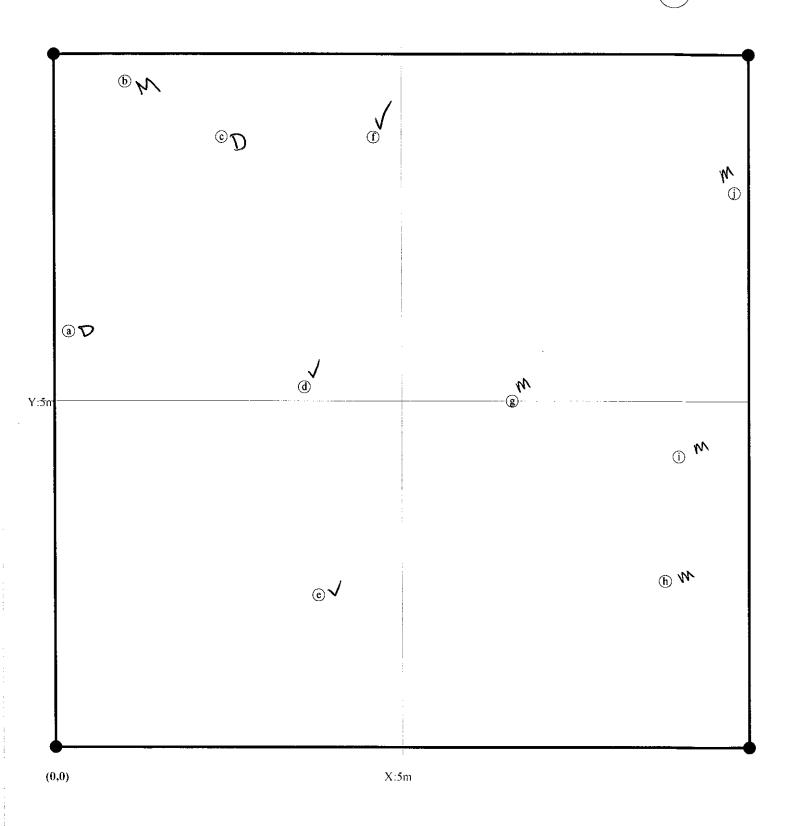
				0cm, explain w - HEIGHT			PLINGS —		-	<b>TREES</b>	— DBH
Species Name	c Z	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapi	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Sinconnore		_	٥								-
sweel Hum				# @							
Nirged 5 lu		_	6 B	5 Q							
Sheen Ash			*								
uppen Elm			0 0	2 b & 0							
<del>- 1</del>				1				1			

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE
Strangulation, UNKNown, specify other.

N ( # stems: 10 map size: LARGE



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown
\*VIGOR: 4=excellent, 3=good, 2=fair, \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown

1

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

## Vegetation Monitoring Data (VMD) Datasheet

Please fill in any missing data and correct any errors.

Plot	95807-01-0014					Party	:	Role:	Date last		
VMD Y	Year (1-5): 2 Date:	9/14	1/14	7-[	/		<u>Rams</u>	iou	New plan		te m/yy?/ ox if plot was not
Taxono	mic Standard:						Defra	ncesco			specify reason below
Taxono	mic Standard DATE:								-		
Latitude		36.363994		Da		IAD83/W			41		
Longitu	(dec.deg. or m) de or UTM-E:	-78.571876		บา	M Zon				-		
_	nate Accuracy (m):	1 X	-Axis	bearin	g (deg):	90			J႞		
	Plot Dimensions: X:	10	Y:	10	Plot	t has reverse ori	entation for	X and Y axis (Y is	90 degree	s to the	right of X
		·	•			Sep 2014 Da	ata Z		THIS YE	AR'S D	DATA
		Мар	Source	* X	Y	Height	DBH E	Height DB	BH Re-	Vigor*	Damage* Notes
<u>ID</u>	Species Name	char		0.1m	0.1m	1cm*	1 cm *	lcm* 1 c	m sprout		
185	Diospyros virginiana 5100	Moro®	R	3.0	6.3	46.5		24	N N	a	UNK
186	Quercus michauxii	a	R	2.0	9.1	50.0		60		3	
187	Quercus michauxii	<b>©</b>	R	4.0	9.8	50.0		47		2	UNK
188	Quercus michauxii	<b>(f)</b>	R	5.6	3.3	Missing					Missing
189	Juglans nigra	<b>e</b>	R	5.3	3.6	Missing		<b>-</b>			Missing
190	Asimina triloba	<b>(d)</b>	R	4.3	0.6	Missing				Ō	Dead
191	Asimina triloba	(g)	R	7.0	1.2	Missing		-			Missina
192	Quercus michauxii	h	R	8.3	264	40.0		45		3	J
193	Carpinus caroliniana	(j)	R	9.1	1.6	25.0		25		3	
194	Platanus occidentalis	(i)	R	8.6	5.6	67.0		68		3	
195	Liriodendron tulipifera	(k)	R	9.1	6.6	Missing					Missing
196	Quercus michauxii	1	R	9.3	10.0	38.0		33	一区	2	INK
# stems:	12 New Stems,	not include	d last	year, b	ut are o		d. If more s	space needed, use b	lank PWS	(Plante	d Woody Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Vigor*	Damage*	1	Notes	,
		$\neg \Box$									
_				$\Box$			1				
		_		$\Box$			1				
					ļ						

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M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot (	(continued): <u>9580</u>		Sep 2014 Data			No	9-	14-15	THIS YEAR'S DATA			
ID	Species	map source char	(m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	tes*	ddh (mm)	Height (cm)	DBH (cm)	Re- Vigor* Damage* Notes sprout

=10 (write DBH)
_

M=missing.

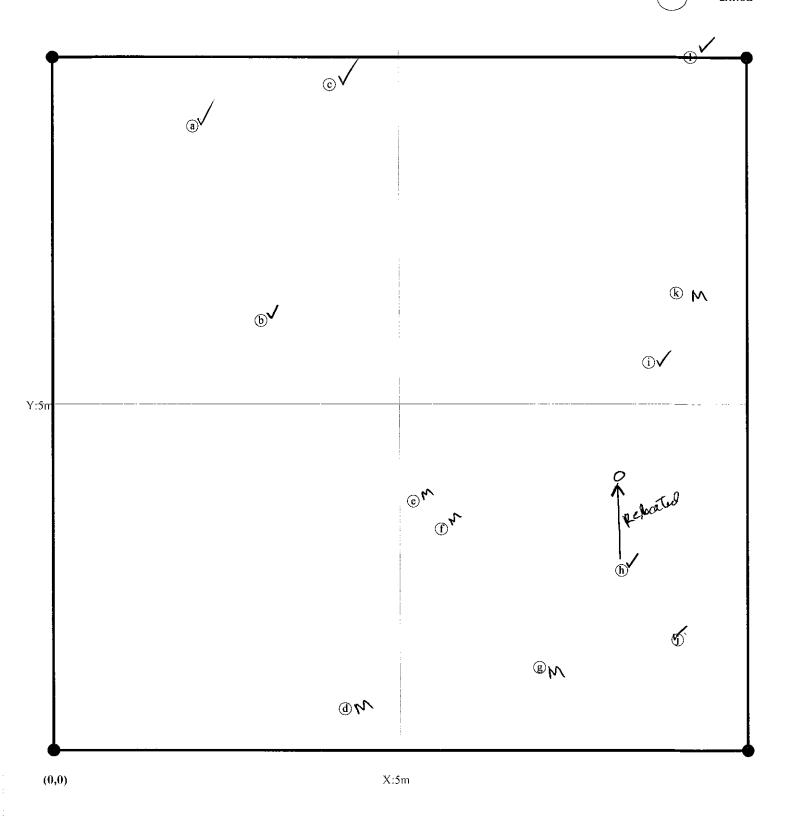
\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
l=unlikely to survive year, 0=dead,

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

# stems: 12 map size: LARGE



M=missing.

<sup>\*</sup>SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE p. 41 Strangulation, UNKNown, specify other.

Please fill in any missing data and correct any errors

Plot <u>95807-01-0015</u>							Part				Rol	e: Da	ate la	st plante	q.	02/2014
				r		<del></del>	٦ آ٦				T				ate m/yy?	
VMD Year (1-5): 2 Date:	<u> </u>	14	/ /5	-  -	/	/	┧╠	7	MA Saca	1	+	$\dashv$			ox if plot	
Taxonomic Standard:							╛┞┙	<u></u>	TVU	ncest o	+	<u> —</u> ы	otes:	sampled	, specify	reason below
Taxonomic Standard DATE:				<u> </u>			⅃├─				╁	$\dashv$ l				
Latitude or UTM-N: (dec.deg. or m)	36.363	1028	<u> </u>			NAD83/W	╧				+	$\dashv$				
Longitude or UTM-E:	-78.57	1678		UT	M Zo	ne:  17	$\parallel$				╀					
Coordinate Accuracy (m):		1 X-	Axis t	earing	g (deg	): 9	0 L									
Plot Dimensions: X:		10 Y:		10 (	☐ Ple	ot has rev	erse or	rientatio	on for I	X and Y a	xis (	Y is 90	degre	es to the	right of	X
· · · · · · · · · · · · · · · · · · ·	<u>.</u>					Sep	2014 Г	)ata	z	-		TH	HIS Y	EAR'S I	DATA	
ID Species Name		Map S char		0.1m			Height 1cm*	Data DBH 1 cm	otes*	Hei 1cr		DBH 1 cm	Re- sprou		' Damage'	* Notes
198 Quercus michauxii		<b>(b)</b>	R S	SHE	. 3 <u>%</u> 1	,7 <sub>11</sub>	fissing			4	भा		Π	3	T ==	MISSINGOM
199 Asimina triloba		<b>(f)</b>	R	4.0	5.5	M	lissing				-		П			M155/NG
203 Quercus michauxii		<b>(h)</b>	R	9.0	3.0		45.0			3	2		卤	3	UNK	
205 Quercus michauxii		<b>(g</b> )	R	8.5	3.2		66.0			اما			Ħ	ā	TILL	
207 Nyssa sylvatica		(a)	R	1.3	4.8		61.0			<del>  _</del>			Ħ		TO VIE	` <del> </del>
208 Liriodendron tulipifera		(d)	R	1.8	7.3		44.0			70	5		Ħ	13		<del>- </del>
209 Liriodendron tulipifera		©	R	1.8	10.0	ı	lissing			<u>                                   </u>	_		Ħ	+-	<del>                                     </del>	Mestry
686 Diospyros virginiana		e	R	3.0	. 9.0	200	100.0			12	2		Ħ	32	INS	MSSING
687 Carpinus caroliniana		(i)	R	9.5	9.5		48.0			4	_		Ħ	12	UNK	<del>                                     </del>
# stems: 9 New Stems, n	ot inc	_	last v	ear. bu	ıt are	obviously	/ plante	ed. If r	nore sn		_	se blank	PW:	S (Plante		Stems) Form:
Species Name	Source	ce*	X	Y		Height	DBI	I via	gor*		mage			Notes	- · · · · · · · · · · · · · · ·	2002) 2 01
opeoies Name	7		(m)	(m)		1 cm*	1 cm	<u>ה</u>	<u> </u>			· .	$\neg$	T T T T T T T T T T T T T T T T T T T	<del>-</del>	<del></del>
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	╫─	╬	+	-			+	┨┝								
	JL	<u> </u>					<u> </u>	┙┕							_	
																*
Notural Wood	C	40 220	. 4	a 11!a	al L				Ext	olanation o	of cut	-off				Ţ
Natural Wood  Height Cut-Off (All stems shorte	•							المامات م	/	u bsam plin			\00 m	□ 137	7am —	
THE CHI OIL (All stells shorte	tilai	1				EIGHT				PLINGS					REES —	DBH
				cm-		0 cm-		cm-		Lings		171711	╌╂╴	<del>- i</del>	T	
Species Name	S S	Sub- Seed		) cm		00 cm		cm.	Sub- Sapi	0-1 ci	m	1-2.5	5	2.5-	5-	=10 (write DBH)
No 10 1 mesos	+				╁						$\dashv$		╅			(///// 22/3
NO VOLUNTEERS	+	⊨	_	·	+		—		<u> </u>		-		-			
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	4	<u> </u>			_		<u> </u>		<u>                                     </u>							
**Required if cut-off >10cm or subs	ample	? 100%	).		•	1 2	• 3 • •	<b>•</b> •4	<b>⊕-€</b> 5	<b>1</b> 6	1	7	8	12"	×10 1	Form WS2, ver 9.1

M=missing.

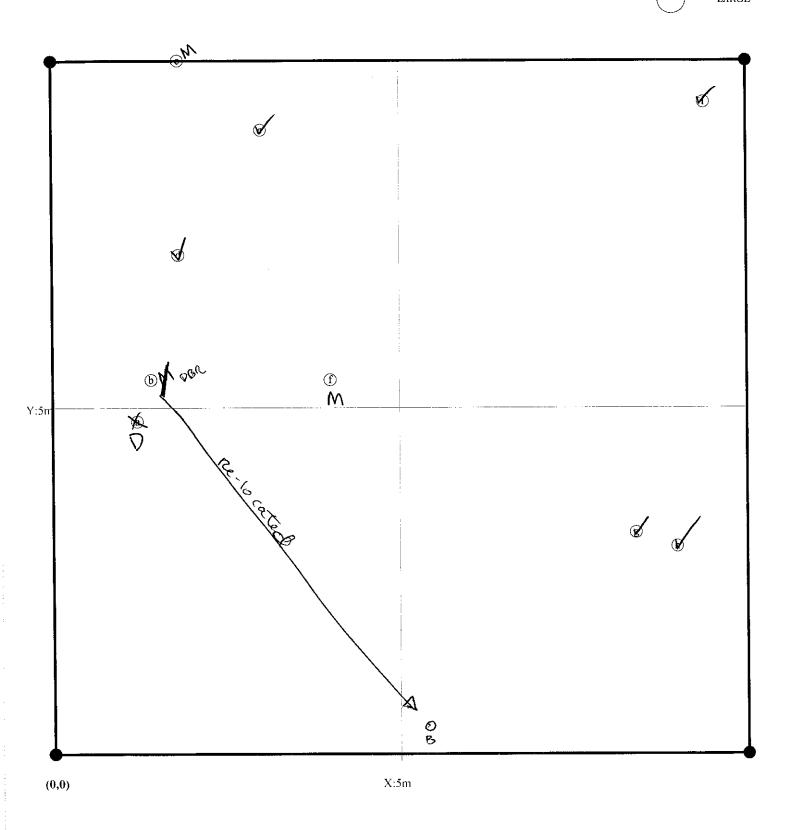
<sup>1=</sup>unlikely to survive year, 0=dead,

<sup>\*</sup>SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown
\*VIGOR: 4=excellent, 3=good, 2=fair, \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAM p. 42 \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

<sup>\*</sup>HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

 $\rightarrow$  X-axis:  $\underline{\phantom{0}90}^{\circ}$ 

# stems: 9 map size: **LARGE** 



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
l=unlikely to survive year, 0=dead,

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE p. 43 Strangulation, UNKNown, specify other.

\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Please fill in any missing data and correct any errors.

Plot	95807-01-0016				•	F	arty:				Date last			02/2014
VMD Y	Year (1-5): 2 Date:	9/16	2//4	7-[	/	/	<u>Sk</u>	eleula	$\mathcal{L}$	l			te m/yy? ox if plot	
Taxono	mic Standard:	<del></del>	······································						A5-10					eason below
Taxono	mic Standard DATE:						B	poles						
Latitud		36.36016		Da		NAD83/W								
Longitu	(dec.deg. or m) ide or UTM-E:	-78.579049	)	บา	M Zoi									
Coordi	nate Accuracy (m):	1 х	K-Axis	bearin	g (deg)	: 90								
	Plot Dimensions: X:	10	Y:	10	Plo	t has revers	e orie	ntation for	X and Y axis	(Y is 9	0 degree	s to the	right of X	<u> </u>
						Sep 201	4 Dat	a z		7	THIS YE	EAR'S D	ATA	
ID	Species Name	Map	Source	e* X	Y	Hei	_	DBH S	Height		Re-	Vigor*	Damage*	Notes
עוו		char			0.1m	1ci		1 cm *	1cm*	1 cm	sprout			
210	Quercus nigra	(a)	R	0.6	0.3		8.0		42		$\Box$	3		
211	Quercus falcata	<b>(d)</b>	R	3.0	3.0		4.0		31			3	tallet	temboker
212	Diospyros virginiana	<b>b</b>	R	1.8	6.0	6	7.0		73			3		
213	Cercis canadensis	<b>©</b>	R	3.5	8.5	3	6.0					0	Draw	¥
214	Diospyros virginiana	g	R	5.6	9.3	3	2.0		54			3		
215	Liriodendron tulipifera	<b>(i)</b>	R	8.3	9.3	2	5.0		23			Q	UNK	
216	Liriodendron tulipifera	<b>(i)</b>	R	7.0	7.6	3	1.0					O	Dead	4
217	Quercus nigra	<b>(f</b> )	R	5.0	5.3	5	9.0		21	·1	IM	12	UNK	
218	Cornus florida	h	R	6.2	2.3	3	2.0		36			2	UNK	
219	Cercis canadensis	1	R	9.0	0.0	5	7.0		30			3		towarde of
220	Cornus florida	<b>©</b>	R	10.0	2.6	2	5.0		28			2	UNK	700
221	Quercus falcata	(k)	R	8.8	4.3	1	2.0		16		M	3		
222	Cornus florida	m	R	9.0	7.3	3	32.0		9		ĪХ	2	INK	
# stems:	13 New Stems, 1	not include	ed last	year, b	ut are o	bviously pl	anted.	. If more s	pace needed,	use bla	nk PWS	(Plante	d Woody	Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		_	DBH l cm	Vigor*	Dama	ige*		Notes		
		$\neg \Box$												
							$\neg$							
		╢┈╢					一						<u>.                                      </u>	

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M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

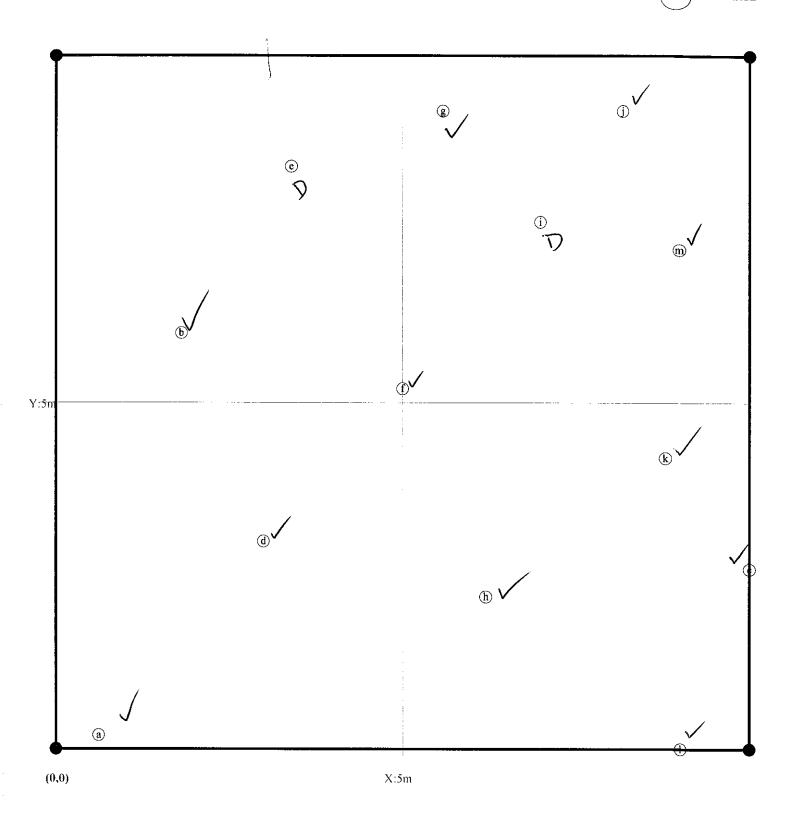
\*VIGOR: 4=excellent, 3=good, 2=fair, l=unlikely to survive year, 0=dead, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot (continu	ed): 95807-0	1-(	0016			Sep 2	014 Data	вн	Zo		THIS	YEAR'S	DATA	<u></u>
ID Species	,		map s char	ource X (m)	Y (m)	ddh (mm)		BH cm)		dh Height nm) (cm)		Re-Vigo rout	r* Dama	ge* Notes
	ural Woody f(All stems shorter							ght.):	<u> </u>	lanation of curbsam pling**		em □ 13	37cm	
			SEE	DLINGS -	<u>– Н</u>	EIGHT	CLASSI	ES	SAI	LINGS —	DBH	<b>l</b> '	TREES	— DBH —
Specie	es Name	c c	Sub- Seed	10 cm- 50 cm		0 cm- 00 cm	100 cr 137 cr		Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Thomas	45/1			* 0						·				
Swel	Jun-			11										
ped	Maple			9 ¢										<u> </u>
Idalolla	1			X										
	Prolan			Ø										
<i>P</i>	, ,													
**Required if cu	-off >10cm or subsa	mple	?100%	).		1 •2	<b>9</b> 3	<b>♦</b> 4	<b>●●</b> 5	<b>♦</b> •6 <b>†</b>	<b>●</b> 7 <b>1 9</b> 8	229	10	Form WS2, ver 9.1

1=unlikely to survive year, 0=dead,

 $\rightarrow$  X-axis:  $\underline{\phantom{0}90}^{\circ}$ 

# stems: 13 map size: LARGE



<sup>\*</sup>SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE M=missing. Strangulation, UNKNown, specify other.

<sup>\*</sup>HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Vegetation Monitoring Data (VMD) Datashee	Vegetation	Monitoring	Data (VMD	) Datasheet
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Please fill in any missing data and correct any errors.

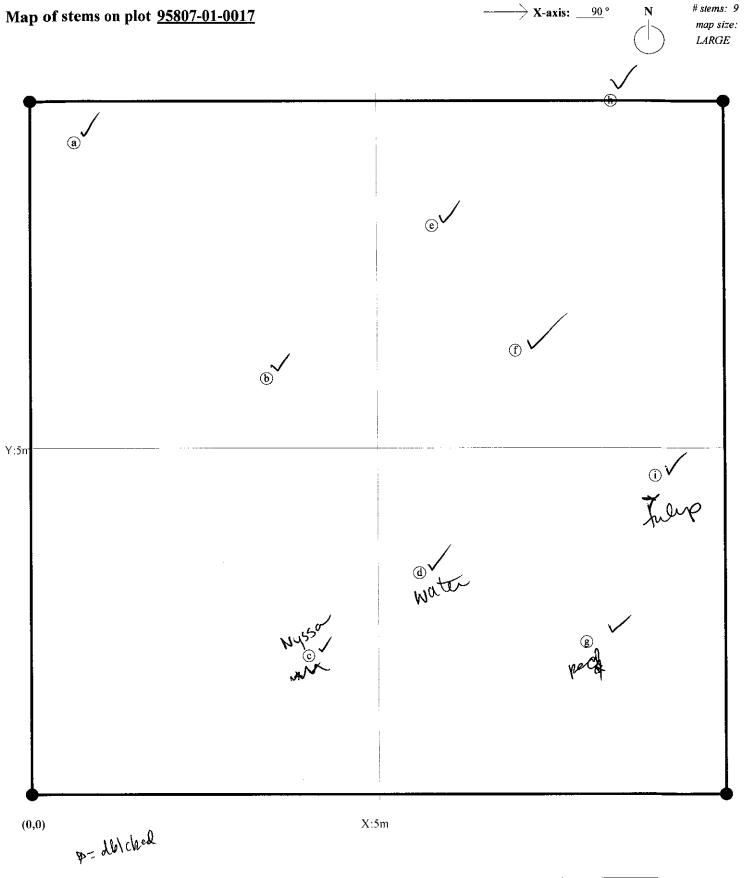
Plot <u>95807-01-0017</u>					Party:	- 4			last plant		02/2014
VMD Year (1-5): 2 Date: 6	9/16	0115-	/	/		<u> Kulo-</u>	·	— New Γ	planting		y?
Taxonomic Standard:	•	· - ·				de_		Note			ly reason below
Taxonomic Standard DATE:				·	De	rance	SIO			_	
Battlade of GIMI	6.359799	D	atum: N	AD83/W	ļ			<b> </b>			
(dec.deg. or m) Longitude or UTM-E:	78.57842	U	TM Zon		<u> </u>			<b></b>   [			
Coordinate Accuracy (m):		X-Axis bearing	ng (deg):	90	]		<u>l</u>				
Plot Dimensions: X:	10	Y: 10	☐ Plot	has reve	rse orien	tation for 2	X and Y axis	(Y is 90 de	grees to tl	he right o	of X
				•	014 Data	N N		THIS	YEAR'S	DATA	<u>-                                      </u>
ID Species Name	Map char		Y 1 0.1m		leight D	Notes *	Height 1cm*		te-Vigo	r* Dama	ge* Notes
224 Quercus falcate Mq qr	Ь	R 3.5	6.0		43.0		4		3	Sha	pred
225 Cornus florida	(a)	R 0.6	9.5	Mis	ssing		1 al		13		
226 Quercus falcata	<b>@</b>	R 5.9	8.3		39.0		V 54		] 3		
227 Liriodendron tulipifera	(f)				39.0		V 50		] 3	147	·
228 Querous nigra tulippp	lan@				19.0		W 301	4	113	RE	ξ
229 Nyssa sylvatica	©				10.5		10 4252	12	3	<u> </u>	
230 Quercus falcata	(g)				53.0		48		] 2 U	10	p and booked
231 Liriodendron tulipifera	<u>i</u>				26.0		30		] 3		
233 Quercus nigra	<b>(h</b>		10.0		37.5		34		][3	10	Pared Moke of
		ed last year, l	out are o	bviously   Height	planted. DBH	_			•	ited Woo	dy Stems) Form:
Species Name	Source*	(m) (m)		1 cm*	1 cm	Vigor*	Dama	ge*	Notes		
						$\vdash$			┨┝		
									┨┝──		
							-		J L		
Natural Wood	y Stei	ns - talli	ed by	speci	ies		<u>planation of c</u> subsampling*				
Height Cut-Off (All stems shorter									om □ 13		
	S	EEDLINGS					PLINGS -	– DBH		TREES	— DBH
Species Name	Su See			0 cm- 0 cm	100 cr 137 c	a Sub-	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Tobloth	c Sec	_ <b>X</b> C	_	o cm	157 0	111 (жерт	V 1 V	1 -10			(write DBH)
	<del>   </del>							+			
S P Of	+	- <u>M</u>						<del>-</del>		<u> </u>	
Sweet Gru	╁╂═	- J.	+								
_ Real Marche		<u> </u>	+							<del>                                     </del>	
Sycamore	+	—   	-							-	
Slippery El	<del>                                     </del>	_   _	+			+	-	1	$\vdash$	<del>                                     </del>	<u> </u>
**Required if cut-off >10cm or subsa	mple 210	<u>-  </u>		•2	<b>3</b>	<u> </u>		<b> </b> 	0-00	<b></b> 10	Form WS2, ver 9.1
		· / • ·			• • •		<b>1</b> 6	ie lei		M.	

<sup>\*</sup>SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE
Strangulation, UNKNown, specify other.

<sup>\*</sup>HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
l=unlikely to survive year, 0=dead,

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

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M=missing. \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Plot	<u>95807-01-0018</u>					Party	_	Role: Date last planted: 02/2014	_
VMD Y	Year (1-5): 2 Date:	9/10	/ 15	77-[	/	<u>  S</u>	ukuli	Chaply have if mint and	
Taxono	omic Standard:						<u>ogder</u>	Notes: sampled, specify reason below	
Taxono	omic Standard DATE:				-	\_D	era	NUSO	$\neg$
Latitud	e or UTM-N:	36.359704		Dat	tum; N	AD83/W			
Longitu	(dec.deg. or m) ide or UTM-E:	-78.577134		UT	M Zon	e:			
_	nate Accuracy (m):	1 X	-Axis	bearing	g (deg):	90			
	Plot Dimensions: X:	10	<i>l</i> :	10 [	Plot	has reverse orie	entation for	r X and Y axis (Y is 90 degrees to the right of X	_
	·					Sep 2014 Da	ta Z	THIS YEAR'S DATA	_
		Мар	Source	.* X	Y	-	DBH S*	Height DBH Re- Vigor* Damage* Notes	
ID	Species Name	char	50410	0.1m	0.1m	1cm*	1 cm   *	1cm* 1 cm sprout	
235	Liriodendron tulipifera	<b>(b)</b>	R	0.6	0.9	29.0		45 3	
236	Nyssa sylvatica	©	R	1.5	3.3	55.0		55 3	
237	Quercus nigra	e	R	2.0	5.8	52.0		10 3	
239	Quercus nigra	<b>a</b>	R	0.3	8.5	41.0		38 12 UNIH	
240	Diospyros virginiana	(j)	R	6.0	8.3	17.0		33 3	
241	Liriodendron tulipifera	<b>(h</b> )	R	5.6	5.3	30.0		- Dead	
242	Quercus nigra	<b>(f)</b>	R	3.7	2.3	54.0		50 3	
243	Quercus nigra	(j)	R	8.0	1.3	34.0		35 3	
244	Liriodendron tulipifera	(g)	R	3.8	0.3	19.0		- 0	
245	Nyssa sylvatica	<b>(k</b> )	R	8.6	3.3	56.0		12   X 2 UNK	
246	Quercus nigra	①	R	9.0	7.0	51.5		(02   3   1	
247	Nyssa sylvatica	m	R	9.3	9.6	46.0		22 3 UNK	
248	Liriodendron tulipifera	<b>d</b>	R	10.0	1.3	14.0		- Dead	
# stems:	13 New Stems,	not include	d last	year, bu	it are of		l. If more	space needed, use blank PWS (Planted Woody Stems) Form	:
Specie	s Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Vigor*	Damage* Notes	
					[				$\neg$
					j				ヿ
	-				j				ヿ
•					1	<del></del>			_

1=unlikely to survive year, 0=dead, M=missing.

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot (	continued):	95807-01-0018				Sep	2014 D	ata 2	<u>z</u>		T	HIS YEAR'S D	DATA	
ID `	Species		source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re- Vigor*	Damage* Notes	

Natural Woo Height Cut-Off (All stems shor	•			-	4	<u>&amp;</u> s	lanation of curubsam pling**  cm □ 50cm		m □ 13	37cm	
Tergus Out On (thi stome shor				- <b>Неіс</b> нт			PLINGS —				— DBH
Species Name	<b>√</b>	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapi	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
green John			1.								
ioldalla			D	0							
							-				
						_					
											_
**Required if cut-off >10cm or su	bsample	? 100%		<b>●</b> 1 <b>●</b> 2	3 • •4	<b>9-9</b> 5	16	7	127	10	Form WS2, ver 9

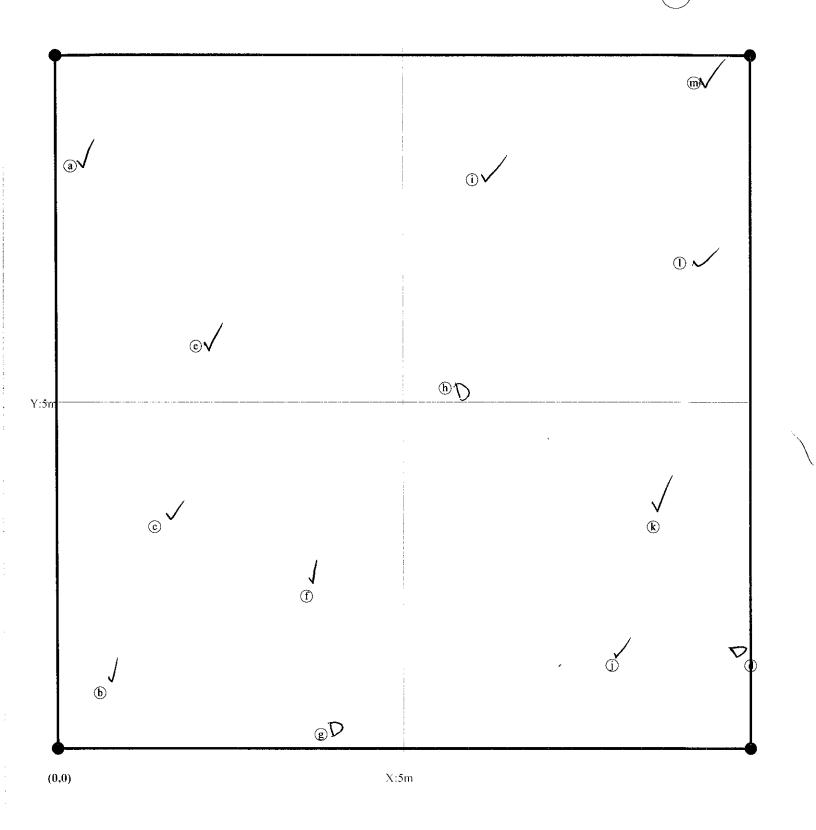
\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 5

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing. 

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

ightarrow X-axis:  $\underline{\phantom{a}90}$  °

# stems: 13 map size: LARGE



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE

Strangulation, UNKNown, specify other.

M=missing.

<sup>\*</sup>HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

## Vegetation Monitoring Data (VMD) Datasheet

Please fill in any missing data and correct any errors.

Plot	95807-01-0019					Party:		Rol		st planted		02/2014
VMD Y	Year (1-5): 2 Date:	9/110	/	₹-[	/	·	lenla	<u> </u>			te m/yy?   ox if plot v	vec not
Taxono	omic Standard:	· · · · · · · · · · · · · · · · · · ·		- <i>-1</i> - 1 1			vde_					ason below
Taxono	omic Standard DATE:			•			etrani	esso				
Latitud	e or UTM-N;	36.35967		Dat	tum: N	AD83/W						
Longitu	(dec.deg. or m)  ide or UTM-E:	-78.576292		UT	M Zon	e: 17						
_	nate Accuracy (m):	1 X	-Axis	bearing	g (deg):	90			-			
	Plot Dimensions: X:	10 Y	<u>':                                    </u>	10	Plot	has reverse orie	entation for	X and Y axis (	Y is 90 degre	ees to the	right of X	
						Sep 2014 Da	ta Z		THIS Y	EAR'S I	DATA	
ID	Species Name	Мар	Source	* X	Y		DBH S	Height	DBH Re-		Damage*	Notes
	<u> </u>	char		0.1m		1cm*	1 CIII	1cm*	1 cm sprou		_	
249	Quercus nigra	(a)	R	0.3	0.6	34.0		34		3		
250	Nyssa sylvatica	©	R	1.5	9.0	Missing					sner	·
251	Diospyros virginiana	<b>6</b>	R	0.3	6.8	40.0		4		3		
252	Diospyros virginiana	<b>(d)</b>	R	2.3	9.0	67.0		7		3	<u> </u>	
253	Nyssa sylvatica	<b>©</b>	R	3.0	5.0	24.0		24		2	NNK	
254	Nyssa sylvatica	<b>(f)</b>	R	4.5	2.3	25.5		34		3		
255	Liriodendron tulipifera	g	R	5.0	7.3	Missing				Mis	shop	
256	Liriodendron tulipifera	<b>(i)</b>	R	6.3	9.0	21.5		24		3	,	-
257	Nyssa sylvatica	(k)	R	8.0	7.6	54.0		59	`	3		
258	Liriodendron tulipifera	<b>(h)</b>	R	6.0	3.6	9.0				0	Dead	
259	Quercus nigra	(j)	R	7.3	1.0	30.5		-		0	Dea	
260	Quercus nigra	1	R	8.5	3.0	25.0				TO	Deal	Ø
262	Diospyros virginiana	n	R	9.9	0.6	60.0		24-	X	13		
263	Cornus florida	$\odot$	R	9.0	9.3	18.5				0	Deau	<b>D</b>
# stems:	14 New Stems,	not include			ıt are o	bviously planted	l. If more s	space needed, u	se blank PW	S (Plante		Stems) Form:
Specie	es Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Vigor*	Damage	e*	Notes		
				一							•	
				$\neg \uparrow$			<del>                                   </del>				_	-
					ı	<u> </u>	·					

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\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

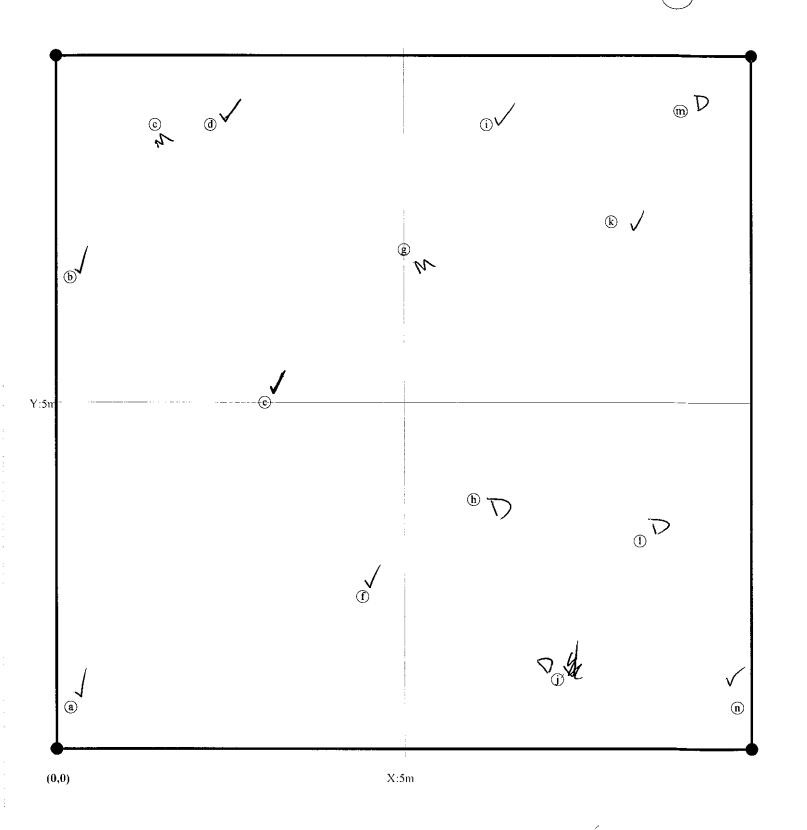
Plot	(continued): <u>95807-</u>	01-	<u>0019</u>			Sep	2014 Da	ita	Notes		THIS	S YEAR'S	DATA	
ID	Species		map s char	source X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)		ldh Height nm) (cm)		≷e- Vigo rout	r* Dama	nge* Notes
Heig	Natural Wood	_				~ _		right.)	<u> </u>	lanation of cuubsam pling**	;	om □ 13	37c m	
	·		_	DLINGS -						PLINGS —		,	TREES	— DBH
	Species Name	<b>√</b> c	Sub- Seed	10 cm- 50 cm		00 cm-	100 c		Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
7	hoen Ah			8 g 12										
	,													
					T									
					十									
**Re	equired if cut-off >10cm or subsa	imple	? 100%	ó.		1 2	• 3 • • •	<b>4</b>	<b>● ●</b> 5	<b>1</b> 6	7 18	<b>123</b> °	10	Form WS2, ver 9.1

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

# stems: 14 map size: LARGE



M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, l=unlikely to survive year, 0=dead, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot	95807-01-0020						P	arty:			ast plante		02/2014
VMD Y	Year (1-5): 2 Da	te: 🔽	7/110	1/4	<del>-</del> - I	/	7 ]	Skeky	20	New p		ate m/yy?	. /
Taxono	omic Standard:		1 10					Bode	)	Notes		ox if plot we specify re	vas not ason below
Taxono	omic Standard DATE:	_						afra	uceso		· .	, . [ <del>-</del> - <del>-</del> <del>-</del> - <del>-</del> <del>-</del> - <del>-</del> <del>-</del> - <del>-</del> <del>-</del>	
Latitud	e or UTM-N:	36.	359214		Da		NAD83/W						
Longiti	(dec.deg. or m) ude or UTM-E:	-78	3.575537		U".	ΓM Zoi	ne: 17						
_	nate Accuracy (m):		1 X	K-Axis	bearin	g (deg)	): 90 L		·				
	Plot Dimensions: 3	K:	10	Y: [	10	☐ Plo	ot has reverse	orientation f	or X and Y axis	Y is 90 deg	rees to the	right of X	
	#=				-		Sep 2014	Data z		THIS	YEAR'S I	DATA	
ID	Species Name		Map char	Sourc	e* X 0.1m	Y 0.1m	Heig 1cm		Height 1cm*	DBH Re	AIROI	Damage*	Notes
264	Quercus falcata		a	R	0.3	0.3	33	3.0	24		13		
265	Nyssa sylvatica		<b>(f)</b>	R	3.5	2.0	62	2.0	10			UNK	
266	Cornus florida		<b>(b)</b>	R	0.8	3.3	Missir	1g [	4		110	Dead	
267	Quercus nigra		<b>©</b>	R	1.8	6.0		0.0	40 3	1 1	13	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	and
268	Quercus falcata		<b>d</b>	R	2.0	8.3	35	5.0	38		13		
269	Liriodendron tulipifera		h	R	5.5	9.3	20	0.0	25		3		
270	Nyssa sylvatica		g	R	4.0	7.4	20	).0	36		13		
271	Liriodendron tulipifera		e	R	3.0	3.6	24	1.0		-	13		
272	Nyssa sylvatica		. (i)	R	6.6	0.6	10	).5	15		111	UNK	_
273	Quercus falcata	Devo		R	7.0	3.0	31	.0				Dear	()
274	Quercus falcata		(k)	R	7.5	5.2	33	3.0	410		113		^
275	Nyssa sylvatica		1	R	8.3	7.3	22	2.0	17		13		
276	Nyssa sylvatica		n	R	9.0	9.8	41	1.0		·   1	10	Devel	
277	Quercus nigra		0	R	9.3	5.3	42	2.0	35		13		respect of
278	Cercis canadensis		m	R	8.8	1.6	18	3.0	35		3		-11 - 60
# stems:	15 New Stem	ns, not	include		year, b	ut are			space needed,	use blank PV	VS (Plante	ed Woody S	items) Form:
Specie	s Name	S	ource*	X (m)	Y (m)		•	BH cm Vigor*	Dama	ige*	Notes		
	. —												

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, l=unlikely to survive year, 0=dead, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot	(continued): <u>95807</u>	<u>-01-</u>	0020			Sep	2014 Da	ta DBH	Zo		TH	IS YEAR'	S DATA	
D	Species		map s char	ource X		ddh (mm)	Height (cm)	DBH (cm)		ldh Heig nm) (cn		Re- Vigo sprout	or* Dama	age* Notes
Heig	Natural Wood	•						right.):		lanation oubsamplin	-	0cm □ 1.	37cm	
						<b>IEIGHT</b>					— DBH		TREES	— DBH
	Species Name	<b>√</b> c	Sub- Seed	10 cı 50 c		50 cm- 100 cm	100 c		Sub- Sapl	0-1 cr	n 1-2.5	2.5-	5-	=10 (write DBH)
			_											
	···						<u> </u>							
					十		<u> </u>						<del>                                     </del>	
					$\dashv$		<del>                                     </del>						<del>                                     </del>	
* *Re	quired if cut-off >10cm or subs	ample	?100%			<b>●</b> 1	<b>3</b>	•4	<b>● ●</b> 5	6	117 11	8 229	10	Form WS2, ver 9.1

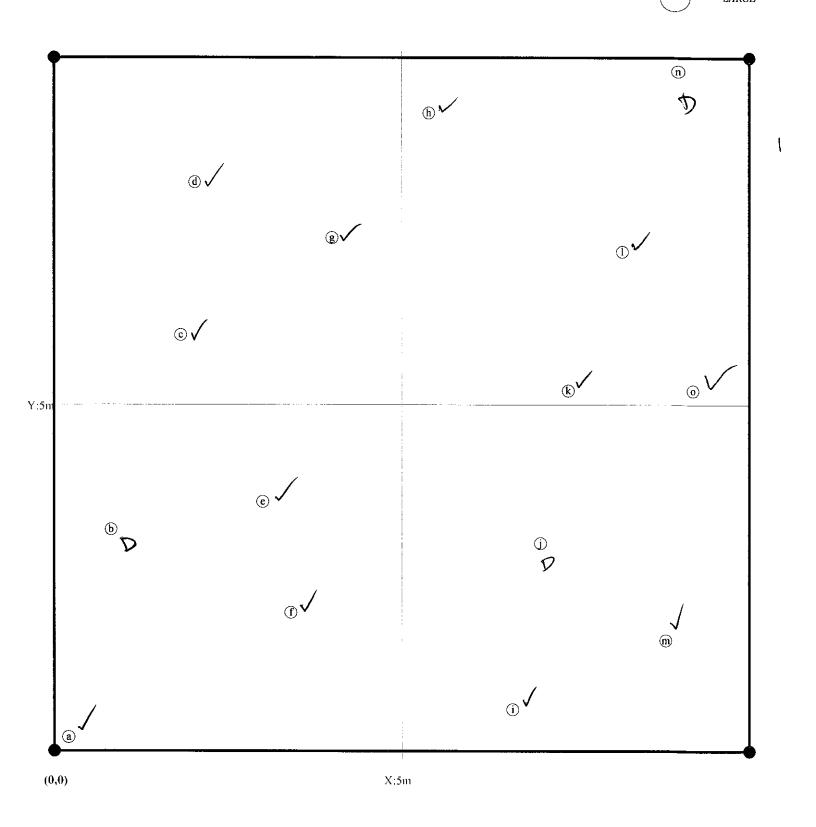
NO VOLUNTEERS

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M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown
\*VIGOR: 4=excellent, 3=good, 2=fair, \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAM

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\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot	95807-01-0021					Party		Role: Date last planted: 02/2014	
VMD	Year (1-5): 2 Date:	9/110	15	<del>-</del> ]-[	/	<u></u>	and	New planting date m/yy? /	
Taxono	omic Standard:	<del></del>					bodes	Check box if plot was not Notes: sampled, specify reason below	
Taxono	omic Standard DATE:					<del>U</del>	<del>Wis</del> I	Derrances	٦
Latitud		36.359415		Da	itum: 1	NAD83/W			
Longit	(dec.deg. or m) ude or UTM-E:	-78.57399		רט	ΓM Zor	ne: 17		<u> </u>	ł
Coordi	nate Accuracy (m):	1 X	-Axis	bearin	g (deg)	: 90			
	Plot Dimensions: X:	10	Y: [	10	☐ Plo	t has reverse orie	entation for	or X and Y axis (Y is 90 degrees to the right of X	L
	<del></del>	<del>-</del>				Sep 2014 Da	ita Z	THIS YEAR'S DATA	=
ID	Species Name	Map	Source	* X	Y	Height	DBH E	Height DBH Re- Vigor* Damage* Notes	
		char			0.1m	1cm*	1 cm : *	1cm* 1 cm sprout	=
279	Quercus falcata	(a)	R	0.0	0.6	54.5		91 3 3	
280	Quercus nigra	<b>©</b>	R	2.6	3.6	58.5			
281	Quercus nigra	©	R	0.3	7.0	31.0		37 3	
282	Quercus nigra	<b>(b)</b>	R	0.1	9.3	26.0		62 3	
283	Diospyros virginiana	g	R	3.6	9.3	59.0		74 03	
284	Liriodendron tulipifera	<b>①</b>	R	3.3	6.8	33.0		15 X	
285	Nyssa sylvatica	<b>(d)</b>	R	2.6	0.1	61.0		67 3	
286	Cercis canadensis	<b>(b)</b>	R	5.8	0.3	Missing		- Missine	
287	Quercus nigra	(i)	R	6.0	2.6	43.0		43 3 1	
288	Liriodendron tulipifera	(j)	R	6.3	5.5	25.0		36 3	_
289	Quercus nigra	- (k)	R	7.0	8.0	46.0		40 3	_
290	Quercus nigra	①	R	7.3	9.9	31.0		29 3	_
291	Nyssa sylvatica	(p)	R	8.8	9.6	58.0			
292	Diospyros virginiana	n	R	8.5	7.3	54.0		55 3	_
293	Nyssa sylvatica	0	R	8.6	4.0	45.0		53 3	_
294	Diospyros virginiana	m	R	8.3	1.0	23.0		41   3	_
# stems:	16 New Stems, 1	not include	d last	year, b	ut are o	bviously planted	. If more	space needed, use blank PWS (Planted Woody Stems) Form:	
Specie	s Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Vigor*	Damage* Notes	
									٦
, ,				$\neg$					┨
							/ <b></b>		_

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot	(continued):	Sep 2014 Data				THIS YEAR'S DATA						_				
ID	Species	map source char	(m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	tes*	ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	Vigor*	Damage*	Notes	

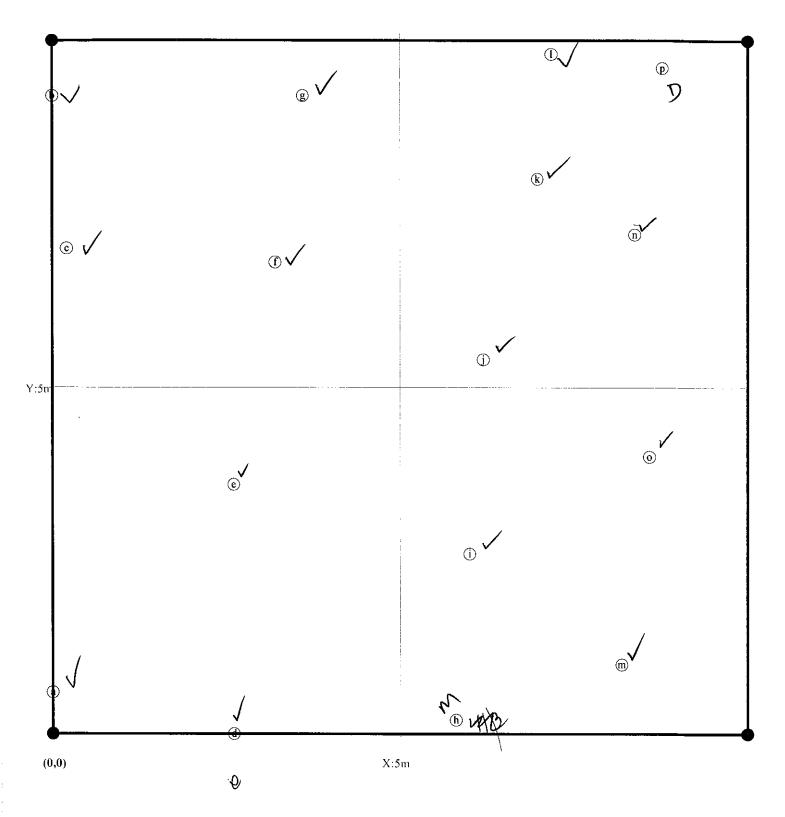
Natural Wood Height Cut-Off (All stems short	•				-		ight.);	₩ <u>&amp; SI</u>	lanation of cubsampling*	*:	em □ 13	37cm	
-		SEE	DLINGS —	- HEI	GHT	CLASS	ES	SAI	PLINGS -	– DBH		TREES	— DBH
Species Name	<b>√</b>	Sub- Seed	10 cm- 50 cm		cm- ) cm	100 с 137 с		Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
<del></del>							]-						
							-						_
										<u> </u>			
												<u> </u>	
												<u> </u>	
**Required if cut-off >10cm or sub	sample	 ?100%		<b>●</b> 1	•2	• 3	<u>-</u> 4	<u></u> 5	<b>1</b> 6	7 138	<u> </u>	10	Form WS2, ver 9.1



\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

# stems: 16 map size: LARGE



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

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\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

## Vegetation Monitoring Data (VMD) Datasheet

Please fill in any missing data and correct any errors.

Plot	95807-01-0022					Part	y:	Ro			planted		02/2014
VMD Y	Year (1-5): 2 Date:	9/16	2/10	7.[	/	\_\ <b>\</b>	retures		Ne			te m/yy? ox if plot v	
Taxono	omic Standard:	, , , ,				L	<u>30dei</u>		$  \frac{1}{N}$				was not eason below
Taxono	mic Standard DATE:						Je fram	usio	<b>IJ</b> Ĩ			<del></del>	
Latitud		36.35959		Da	tum:	NAD83/W			<b>—</b>				
Longitu	(dec.deg. or m) ide or UTM-E:	-78.573227	7	דט 🗔	M Zor	ne: 17	<del>,</del>						
	nate Accuracy (m):	1 2	X-Axis	bearing	g (deg)	: 90							
	Plot Dimensions: X:	10	Y: [	10	☐ Plo	t has reverse or	ientation for	r X and Y axis	 (Y is 90	degree	s to the	right of X	
-	<del></del> .			-	Γ	Sep 2014 I					EAR'S E		
		Мар	Source	.* X	· Y	-	DBH E	Height	DBH	Re-		Damage*	Notac
ID	Species Name	char	Obaro	0.1m	0.1m	1cm*	1 cm *	lcm*	1 cm	sprout	V IgOI	Damage	Notes
295	Quercus nigra	<b>(b)</b>	R	0.6	6.0	65.0		97			3		
296	Liriodendron tulipifera	<b>(d)</b>	R	1.3	8.8	35.0					P	Deac	2
297	Quercus nigra	(i)	R	6.6	8.3	44.0		53			3		Ĭ
298	Quercus falcata	h	R	6.0	6.0	35.0		38			3		
299	Diospyros virginiana	(g)	R	5.3	2.6	46.0		510			3		
300	Liriodendron tulipifera	(a)	R	0.1	2.8	26.0					0	Dea	
301	Diospyros virginiana	(j)	R	8.3	2.3	35.0		32			3		
302	Quercus nigra	e	R	10.0	1.5	37.0		95			3		
303	Nyssa sylvatica	k	R	8.8	5.6	40.0		41			3		_
304	Nyssa sylvatica	1	R	9.0	9.0	51.0		57.			3		-
305	Nyssa sylvatica Fz	(f)	R	4.8	0.1	34.0		38			3		
306	Liriodendron tulipifera	<b>©</b>	R	21/1	6.3	24.0		27			3		
690	Diospyros virginiana 🗐	(f)	R	4.8	0.1	27.0		51			3		
# stems:	13 New Stems, r	ot include	ed last	year, b	ut are c	• •		space needed, t	ise blank	PWS	(Plante	d Woody S	Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Height DBI	\/i~~**	Damag	e*		Notes		
							1			$\exists$			
											•		

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M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

Plot (continued): 95807-01-0022							Sep 2014 Data					T	HIS YE	AR'S L	DATA		
ID	Species	map char	source	X (m)	Y (m)		Height (cm)	DBH (cm)		ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	Vigor*	Damage*	Notes	

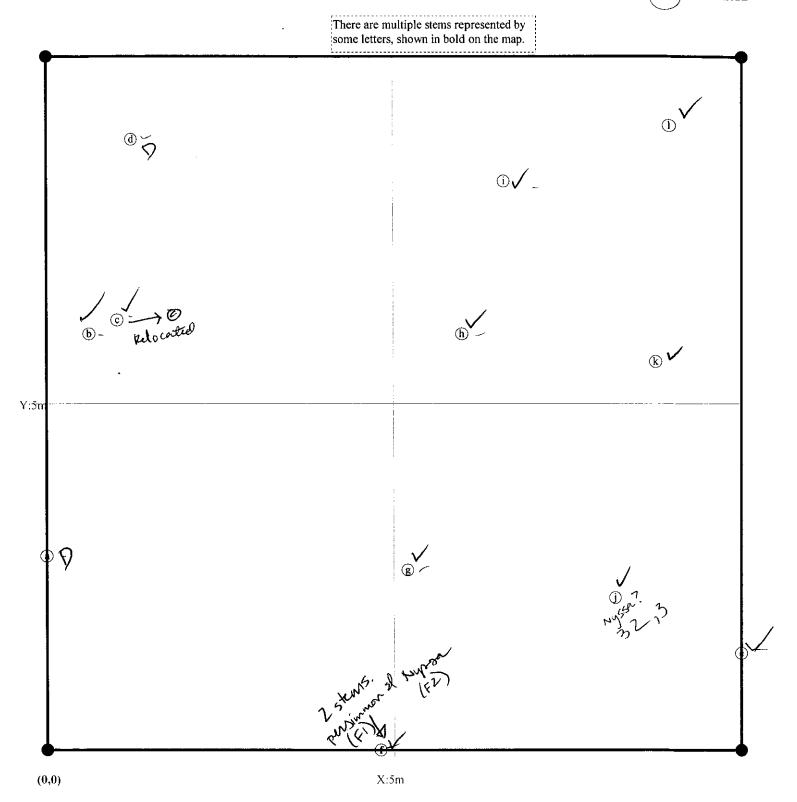
Natural Woody Height Cut-Off (All stems shorter						<u> </u>	olanation of cu subsampling**	;	m □ 13	37cm	
HOLENS CHE CHE CONTROL					CLASSES		PLINGS —		·	TREES	— DBH
<u>Species</u> <u>Name</u>	c Z	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Sweet Phun			6								
Hickory		_	ė			\					
Then Ash											
lablalla			20			<u> </u>					
**Required if cut-off >10cm or subsa	mple	? 100%	).	•1 •2	3 • •4	<b>0-0</b> 5	166	• <del>7</del> ••8	1739	<b>1</b> 10	Form WS2, ver 9.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE
Strangulation, UNKNown, specify other.

# stems: 13 map size: LARGE



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

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\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

,	egetation Monitoring Da	ta (V MID) D	atasi	ieet			r lease III	ill any mis	ning ua	ita anu	COLLE	ct any t	cituis.		
Plot	95807-01-0023					Pa	ırty:		Role			planted		02/2014	
VMI	Year (1-5): 2 Date:	Q / W	/ [1	آ-[	/	L	CMI	<u> </u>		N∈			te m/yy?	/	_
	nomic Standard:	<del>                                     </del>	, (				DB	2		$ \frac{1}{N}$			ox if plot specify r	was not eason below	
Тахо	nomic Standard DATE:									コ岸	, ics. 5	р,	specify i	040017 001017	$\neg$
Latiti	ide or UTM-N:	36.369391		Da	tum:	NAD83/W									
	(dec.deg. or m) itude or UTM-E:	-78.572281	<u> </u>		را M Zot	0004									
_	dinate Accuracy (m):	1 X	-Axis	J bearing											
	Plot Dimensions: X:	10 Y	_	10		t has reverse	orientation	for X and Y	axis (Y	 _ is 90 -	degree	s to the	right of X	<del></del>	_
						Sep 2014						AR'S E			_
		Map	o	_* Х	Y	Heig	⊊	H	eight	DBH	Re-			<b>3</b> .7	
ID	Species Name	char	Sourc	C .	0.Îm	lcm	* 1 cm	* 10			sprout	Vigor*	Damage*	Notes	
307	Quercus nigra	(a)	R	0.6	0.3	58	.0	5	8		П	3	_ <del></del>	Ī -	=
308	Liriodendron tulipifera	· · · · · · · · · · · · · · · · · · ·	R	4.2	1.3	34	.0	2			N	2		UNK	
109	Diospyros virginiana	(h) (	R	295.3	4.0	3.8 20	.0					3		101010	
10	Nyssa sylvatica	(i)	R	7.3	0.4	52	.0	5	<del>)</del>		Ħ	a		UNK	
311	Juglans nigra	_	g R	8.3	3.8	25					Ħ		SING		_
312	Quercus nigra	e e	R	3.6	7.3	63		_	V		Ħ	3	D D C	+	_
313	Quercus nigra	<b>(d)</b>	R	2.032	7.0	57		¬   <del>"</del>	à			3		MISSE	4
314	Liriodendron tulipifera	<u></u>	R	2.0	3.6	18		<u> </u>	9		Ħ	3		IN HOOLE	<u>च्</u>
315	Liriodendron tulipifera	<b>(f)</b>	R	3.6	9.3	26		<u> </u>	6		Ħ	3			
316	Nyssa sylvatica	(j)	R	8.0	9.5	54	.0			ewo	Ħ	1		DIS	
317	Quercus nigra	n	R	9.4	9.0	36		⊸ <b>ਾ।</b> <del>ਨ</del> ਿ	2		V	3	<del>                                     </del>	17/	
318	Nyssa sylvatica	(I)	R	8.8	7.8	44	.5		10		Ħ	2		UNK	-
319	Quercus falcata	<b>(b)</b>	R	10.0	3,3	38	s.o [		5			1		BHENOR	
320	Quercus nigra	m	R	9.3	0.3	Missin	1g [		-		П	0		Deal	-4
# stem	s: 14 New Stems,	not included	d last	year, b	ut are o		_	re space need	ded, us	e blank	PWS	(Plante	d Woody	Stems) Form:	
Spec	ies Name	Source*	X (m)	Y (m)		_	BH cm Vigor	<b>,</b> Е	Damage'	*		Notes	·		
2000	1. T. MILE		(111)	(111)		1 Cin. 1					$\neg$ $\Box$				$\neg$
		╢──╢		$\vdash$			$\dashv \vdash \vdash$						<del></del>		ᅱ
		╢		$\vdash$			$\dashv \vdash$				$\dashv$ l				$\dashv$
		-		1 1		1					- 1 1				

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

p. 6
\*VIGOR: 4=excellent, 3=good, 2=fair,
1=unlikely to survive year, 0=dead,
ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE p. 64 Strangulation, UNKNown, specify other.

Plot	(continued):	<u>95807-01-0</u>	<u> 1023</u>			) Set	2014 D	0			11	113 1 E	AIX 3 DI	AIA		
ID	Species		map sou char	rce X (m	Y ) (m)	ddh (mm)	Height (cm)	DBH (\$\varphi\$) *	ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	Vigor*	Damage*	Notes	
Heig	Natural ht <u>Cut-Off</u> (All s	Woody St							& subsa	tion of cut m pling**:		00cm	□ 137c	m		
_		L. I	_			-			_							

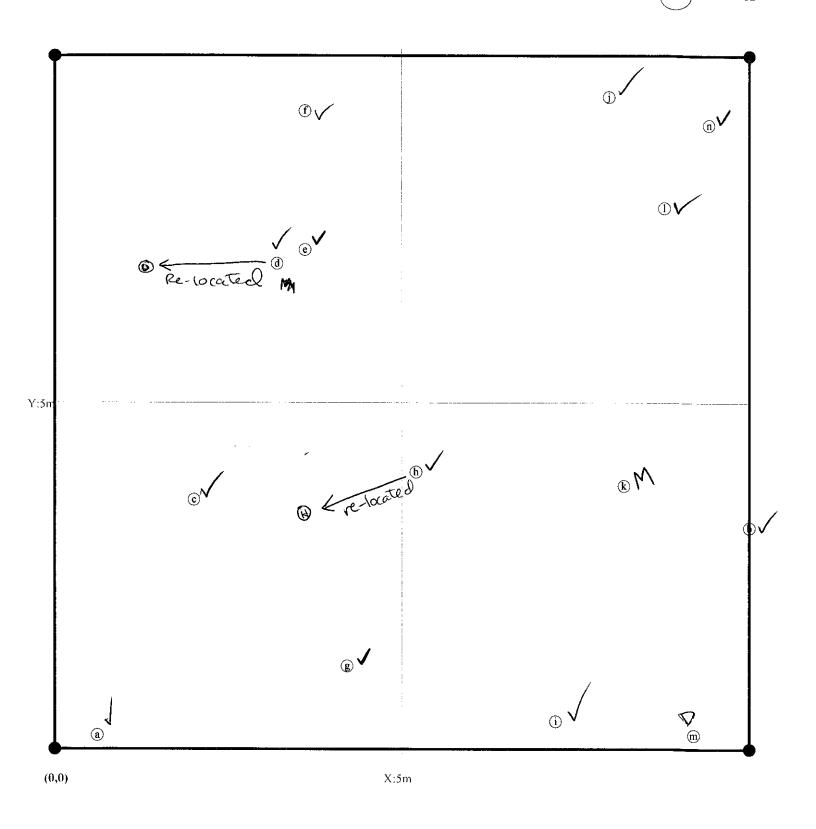
Natural Wood	,			• •		<u> </u>	lanation of cu ubsampling**	:			
Height Cut-Off (All stems shorter	than	_	ignored. If >10 <b>DLINGS</b> —				em □ 50en PLINGS —		m □ 13		— DBH
Species Name	c	Sub- Seed	10 cm- 50 cm	50 cm- 100 cm	100 cm- 137 cm	Sub- Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Tulin Poplar			d.								
Lobololly Pine			0								
7											
			:								
**Required if cut-off >10cm or subst	mple	?100%	).	<b>●</b> 1 <b>●</b> 2	3 • 4	<b>● ●</b> 5	<b>1</b> 66	7	129	10	Form WS2, ver 9.1

M=missing.

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 6

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

# stems: 14 map size: LARGE



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown

\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead,

M=missing.

\*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE Strangulation, UNKNown, specify other.

\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Printed in the CVS-EEP Entry Tool ver. 2.3.1

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