<u>Year 4 Monitoring Report</u> <u>Final</u> Green Valley Farm II Mitigation Project

DMS Project #: 100111 | Contract #: 7862 | DWR # 20140073v2 | RFP: 16-007703

Randolph County, North Carolina Cape Fear River Basin Randleman Lake Watershed HUC 03030003



Prepared By:



Resource Environmental Solutions, LLC For Environmental Banc and Exchange, LLC

Prepared For: NC Department of Environmental Quality Division of Mitigation Services

February 2024



Corporate Headquarters 6575 West Loop South, Suite 300 Bellaire, TX 77401 Main: 713.520.5400

February 9, 2024

Jeremiah Dow NC DEQ Division of Mitigation Services 217 West Jones Street Raleigh, NC 27604

RE: RES Green Valley Farm II: Year 4 Monitoring Report (NCDMS ID 100111)

Listed below are comments provided by DMS on January 5, 2024 regarding the RES Green Valley Farm II: Draft Year 4 Monitoring Report and RES' responses.

- Based on last year's DMS site visit where a handful of easement corners were checked, it was
 observed that at least one witness post was missing from a corner of the project, and RES stated
 that a boundary walk would occur in 2023 to ensure that all witness posts were installed and
 marked. Was this work completed?
 The boundary walk occurred January 11, 2023. The work to replace the missing witness post
 happened on May 11, 2023. Additionally, on the same day more t-posts were installed along the
 conservation easement boundary to help address some scalloping noticed during the January
 boundary walk.
- Please indicate locations of all scalloping and mowing around corner posts on Figure 2. The mowing is occurring around the corner posts along the southern boundary, marked on Figure 2. Since submittal of the draft report, this boundary has been marked off with horse tape for clarification. This work occurred on January 11, 2024.
- 3. Will trees need to be planted in the 0.1 acre area of encroachment in the southeast corner? If so, please indicate when this will be completed. Include species, number, and size (1 gallon, 5 gallon, etc.) in the MY5 report. To clarify, this area of encroachment is 0.01 acre, not 0.1 acre, and therefore unlikely to need any additional trees. However, RES will double check the area to determine if additional trees are needed during the boundary walk that will occur prior to the growing season. If the area needs additional stems these will be planted in the Fall of 2024 once we have ensured that encroachment in the area has stopped. Species, number, and size will be included in the MY5 report.
- 4. This is the final monitoring year, so the Stewardship Program (SP) will be visiting the site in 2024 to determine suitability for transfer to long-term management following DWR closeout. With the current ongoing encroachment violations, the SP program would not accept the site, which will delay closeout. After meeting with the landowner, please provide DMS with documentation summarizing the landowner discussions regarding the easement violations. If written correspondence is sent to the landowner, DMS requests copies of said correspondence. These actions should occur before the SP transfer site visit which could happen as early as late spring. Noted. All correspondence with the landowner will be provided to DMS. At this time, the only remaining easement violation is the 0.1 acre easement corner where the landowner is keeping equipment. This will be addressed early on to help prevent delay of site transfer to long-term management.

Table of Contents

1	Project	Summary	. 1					
 Project Summary								
	 Project Summary							
	1.3	Project Components	. 2					
	1.4	Riparian Mitigation Approach	. 3					
	1.5	Construction and As-Built Conditions	. 3					
	1.6	Year 3 Monitoring Performance	. 3					
2	Referen	nce	. 4					

Appendix A: Background Tables and Site Maps

Table 1: Buffer Project Areas and AssetsTable 2: Project Activity and Reporting HistoryTable 3: Project Contacts TableTable 4: Project Background InformationFigure 1: Site Location MapFigure 2: Current Conditions Plan View

Appendix B: Vegetation Assessment Data

Table 5: Plant Species SummaryTable 6: Supplemental Planted SpeciesTable 7: Vegetation Plot Mitigation Success Summary TableTable 8: Stem Count Total and Planted by Plot Species

Appendix C: Vegetation Monitoring Plot Photos

Appendix D: Vegetation Data Sheets

1 Project Summary

1.1 Project Location and Description

The Green Valley Farm II Project is within the Randleman Lake Watershed of the Cape Fear River Basin within the 8-digit Hydrologic Unit Code (HUC) 03030003, 14-digit HUC 03030003010070 and DWR Subbasin Number 03-06-08.

The Project is located in Randolph County approximately 2.3 miles northwest of Level Cross, North Carolina (**Figure 1**). To access the Project head North on Randleman Road from city center for one mile and turn left on Hockett Dairy Road. Go about 1.3 miles before taking a farm access road to reach the project, on the right side. The coordinates are 35.9086 °N and -79.833 °W.

Environmental Banc & Exchange, LLC (EBX), a wholly-owned subsidiary of Resource Environmental Solutions (RES), is pleased to provide this Monitoring Report for the Green Valley Farm II Riparian Buffer Mitigation Project (Project) as a full-delivery buffer mitigation project for the Division of Mitigation Services (DMS) (DMS #100111). This Project provides riparian buffer mitigation credits for unavoidable impacts due to development within the Randleman Lake Watershed (**Figure 1**). This Monitoring Report is in accordance with the Consolidated Buffer Mitigation Rule 15A NCAC 02B .0295 and the Randleman Lake Water Supply Watershed Buffer Rule 15A NCAC 02B .0250.

The conservation easement of the Green Valley Farm II Project totals approximately 7.19 acres and includes two unnamed tributaries that drain directly into Randleman Lake approximately 1,000 feet downstream of the Project. Land use within the Project parcel was primarily actively farmed row crops and newly planted riparian forest. The goal of the Project was to restore ecological function to the existing stream and riparian area by establishing appropriate plant communities while minimizing temporal and land disturbing impacts. Riparian area improvements help filter runoff from agricultural fields, thereby reducing nutrient and sediment loads to Project channels and the overall watershed. Restoration, of the Randleman Lake riparian area (as defined in 15A NCAC 02B .0250), results in a reduction of the water quality stressors affecting the Project. This Project is consistent with the management strategy for maintaining and protecting riparian areas in the Randleman Lake watershed.

The easement is comprised of four sections, separated by two crossings and UT4. This Project surrounds an existing DMS project, Green Valley Farm Buffer Restoration Site (DMS # 95012, 2014-0073v1) that was closed out (**Figure 2**). The Green Valley II Project is composed of two stream channels: UT1 and UT4. Both of these reaches are outside of the actual easement boundaries but included in the previous Green Valley Farm Project. UT4 is a tributary to UT1, which then flows into Randleman Lake. UT1 is approximately 1,677 linear feet and is on the western side of the project. UT4 is approximately 590 linear feet and runs between the four easement segments. Stream identifications were verified by the DWR site visit on September 1, 2011, as well as a re-evaluation for UT4 on February 23, 2017.

1.2 Monitoring Protocol and Project Success Criteria

Vegetation monitoring and visual assessments are to be conducted annually. Riparian area vegetation monitoring is based on the "Carolina Vegetation Survey-Ecosystem Enhancement Program Protocol for Recording Vegetation: Level 2 Plot Sampling Only Version 4.2". Monitoring plots were installed a minimum of 100 meters squared in size and covered at least two percent of the planted mitigation area. These plots were randomly placed throughout the planted riparian restoration area and was representative of the riparian area restoration. The following data was recorded for all trees in the plots: species, height, planting date (or volunteer), and grid location. All stems in plots were flagged with flagging tape. There are six fixed vegetation monitoring plots (**Figure 2**).

Photos are to be taken at all vegetation plot origins each monitoring year and be provided in the annual reports. Visual inspections and photos are to be taken to ensure that restoration areas are being maintained and compliant. The measures of vegetative success for the Project are the survival of at least four native hardwood tree species, where no one species is greater than 50 percent of stems, at a density of at least 260 stems per acre at the end of Year 5. Native volunteer species may be included to meet the performance standards as determined by NC Division of Water Resources (DWR).

A visual assessment of the conservation easement was performed each year to confirm:

- No encroachment has occurred;
- No invasive species in areas where invasive species were treated;
- Diffuse flow is being maintained in the conservation easement areas; and there has not been any cutting, clearing, filling, grading, or similar activities that would negatively affect the functioning of the riparian area.

Component/ Feature	Monitoring	Maintenance through project close-out
Vegetation	Annual vegetation monitoring	Vegetation shall be maintained to ensure the health and vigor of the targeted plant community. Routine vegetation maintenance and repair activities may include supplemental planting, pruning, mulching, and fertilizing. Exotic invasive plant species shall be treated by mechanical and/or chemical methods. Any vegetation requiring herbicide application will be performed in accordance with NC Department of Agriculture (NCDA) rules and regulations. Vegetation maintenance activities will be documented and reported in annual monitoring reports. Vegetation maintenance will continue through the monitoring period.
Invasive and Nuisance Vegetation	Visual Assessment	Invasive and noxious species will be monitored and treated so that none become dominant or alter the desired community structure of the Project. Locations of invasive and nuisance vegetation will be mapped.
Project Boundary	Visual Assessment	Project boundaries shall be identified in the field to ensure clear distinction between the mitigation project and adjacent properties. Boundaries will be marked with signs identifying the property as a mitigation project and will include the name of the long-term steward and a contact number. Boundaries may be identified by fence, marker, bollard, post, tree-blazing, or other means as allowed by Project conditions and/or conservation easement. Boundary markers disturbed, damaged, or destroyed will be repaired and/or replaced on an as-needed basis. Easement monitoring and staking/ signage maintenance will continue in perpetuity as a stewardship activity.
Road Crossing	Visual Assessment	Road crossings within the Project may be maintained only as allowed by conservation easement or existing easement, deed restrictions, rights of way, or corridor agreements. Crossings in easement breaks are the responsibility of the landowner to maintain.

1.3 Project Components

This Project generates 175,509.615 riparian restoration credits on existing cropland. These riparian mitigation credits generated service Randleman Lake buffer impacts within the Randleman Lake watershed. The total mitigation credits that the Green Valley Farm II Mitigation Project generates are summarized below and in **Table 1**.

Location	Jurisdictional Streams	Restoration Type	Reach ID/Component	Buffer Width (ft)	Creditable Area (sf)*	Initial Credit Ratio (x:1)	% Full Credit	Final Credit Ratio (x:1)	Riparian Buffer Credits (BMU)
Rural	Subject	Restoration	UT1/4	50-100	110,917	1	100%	1.00000	110,917.000
Rural	Subject	Restoration	UT1/4	101-200	195,735	1	33%	3.03030	64,592.615
			TOTALS		306,652				175,509.615

1.4 Riparian Mitigation Approach

Restoration efforts along UT1 and UT4 were accomplished through the planting, establishment, and protection of a hardwood forest community. The result was a riparian habitat that functions to mitigate nutrient and sediments inputs from the surrounding uplands. Traditional riparian restoration, as outlined in 15A NCAC 02B .0295 (n), was utilized. All riparian restoration activities took place within the 50-200' riparian area along to UT1 and UT4 and was subject to crediting and ratios as outlined in the Consolidated Buffer Mitigation Rule. Mitigation ratios followed those provided in the Consolidated Buffer Mitigation Rule. Prior to the issuance of the RFP (#16-007703), RES received approval for restoration on February 27, 2012, and an update on March 24, 2017. RES received an email from DWR on May 13, 2019, that indicated that an updated site visit was not necessary.

1.5 Construction and As-Built Conditions

Revegetation of the Site included treating invasive species and planting native hardwood bareroot trees. Prior to planting, RES prepped the Site by spraying and ripping the easement. Piedmont Alluvial Forest is the target community type for the riparian restoration areas. The community is defined by Schafale (2012). The planting of bareroot trees occurred in May 2020. Deviations from the initial planting plan were due to bareroot availability. A list of the planted tree species can be found in **Table 5**. Additionally, a temporary and permanent seed mixture was applied in areas where row crops were present. Among a variety of seeds, the mixture also included black-eyed Susan (*Rudbeckia hirta*) which is a perennial, pollinator species.

1.6 Year 4 Monitoring Performance

Monitoring of the six permanent vegetation plots was completed on October 10, 2023. Vegetation tables are in **Appendix B** and associated photos are in **Appendix C**. Year 4 monitoring data indicates that six out of six plots are exceeding the success criteria of 260 planted stems per acre. Planted stem densities ranged from 324 to 890 planted stems per acre with a mean of 594 planted stems per acre across all plots. A total of 12 species were documented within the plots. Volunteer species were noted at Year 4 monitoring and are expected to increase in upcoming years. The average tree height observed was 4.6 feet.

Areas of previous encroachment that were addressed with additional signage in 2022 are in good condition and appear to be preventing additional encroachment. A boundary walk occurred in January 2023. The additional areas of encroachment that were noted during this walk and the missing witness post noticed previously were addressed in May 2023 with the installation of new t-posts and signage. There is still some minor scalloping along the easement line and the landowner is mowing around corner posts. In January 2024 horse tape was installed along the easement boundary where scalloping is present to reduce the encroachment around the corner posts. The boundary line where this work occurred is marked on Figure 2. Additionally, during fall vegetation monitoring a small area of encroachment was noticed on the southeastern easement boundary. The area has been mowed and is being used to store equipment. This will be discussed with the landowner and horse tape was installed in January 2024 to clarify the boundary.

Johnson grass (*Sorghum halepense*) is still prolific within the two southern easement portions. Trees are surviving and are beginning to get tall enough to shade out the grass, but an additional pre-emergent treatment is planned for before the growing season to give the trees a further head start this year. Additionally, three princess trees (*Paulownia tomentosa*) were noted by vegetation plot two. These individuals will be treated before the 2024 growing season.

2 <u>Reference</u>

- Lee Michael T., Peet Robert K., Roberts Steven D., and Wentworth Thomas R., 2008. CVS-EEP Protocol for Recording Vegetation Level. Version 4.2
- NC Environmental Management Commission. 2014. Rule 15A NCAC 02B.0295 Mitigation Program Requirements for the Protection and Maintenance of Riparian Buffers.
- NC Environmental Management Commission. 2010. Rule 15A NCAC 02B .0250 Randleman Lake Water Supply Watershed: Protection and Maintenance of Existing Riparian Buffers.

Resource Environmental Solutions, LLC (2020). Green Valley Farm II Mitigation Project – Final Mitigation Plan.

Schafale, M.P. 2012. Classification of the Natural Communities of North Carolina, Fourth Approximation. North Carolina Natural Heritage Program, Division of Parks and Recreation, NCDENR, Raleigh, NC.

Appendix A

Project Background Tables and Site Maps





Table 1. Buffer Project Areas and Asse	ts											
Credit Type	Location	Location Subject? Feature Type		Mitigation Activity	Min-Max Buffer Width (ft)	Feature Name	Total Area (sf)	Creditable Area (sf)	Initial Credit Ratio (x:1)	^t % Full Credit	Final Credit Ratio (x:1)	Riparian Buffer Credits
Buffer	Rural	Yes	I/P	Restoration	50-100	UT1/4	110,917	110,917	1	100%	1	110,917.000
Buffer	Rural	Yes	I/P	Restoration	101-200	UT1/4	195,735	195,735	1	33%	3.0303	64,592.615
						Totals	306,652	306,652			175,509	9.615

Table 2. Project Activity and Reporting HistoryGreen Valley Farm II Site

Elapsed Time Since planting complete: 4 year 7 months Number of reporting Years¹: 4

Activity or Deliverable	Data Collection Complete	Completion or Delivery
Restoration Plan	NA	Jan-20
Final Design – Construction Plans	NA	NA
Stream Construction	NA	NA
Site Planting	NA	May-20
As-built (Year 0 Monitoring – baseline)	May-20	Jun-20
Year 1 Monitoring	Nov-20	Dec-20
Year 2 Monitoring	Nov-21	Nov-21
Supplemental Tree Planting	N/A	Apr-22
Johnson Grass Ring Spray	N/A	May-22
Year 3 Monitoring	Oct-22	Nov-22
Additional Easement Markings	N/A	May-23
Year 4 Monitoring	Oc-2023	Nov-23
Year 5 Monitoring		

1 = The number of reports or data points produced excluding the baseline

Table 3. Project Contacts Table Green Valley Farm II Site										
Planting Contractor	H&J Forestry									
Planting contractor POC	Matt Hitch									
Nursery Stock Suppliers	Arborgen									
Monitoring Performers	RES / 3600 Glenwood Ave, Suite 100, Raleigh, NC 27612									
Monitoring POC	Katie Obenauf 336.705.3041									

	Table 4. Project	Background Information									
Project Name		Green Va	lley Farm II								
County		Randolph									
Project Area (acres)		7.	.19								
Project Coordinates (latitude and	l longitude)	Latitude: 35.9086 N Longitude: -79.833 W									
Planted Acreage (Acres of Wood	y Stems Planted)	7.19									
	Project Watersh	ed Summary Information									
Physiographic Province		Southern Ou	uter Piedmont								
River Basin		Randler	nan Lake								
USGS Hydrologic Unit 8-digit	03030003	USGS Hydrologic Unit 14-digit 03030003010070									
DWR Sub-basin		03-06-08									

Appendix B

Vegetation Assessment Data

Common Name	Scientific Name	Total Stems Planted
Willow Oak	Quercus phellos	1,900
River Birch	Betula nigra	1,200
White Oak	Quercus alba	1,100
Water Oak	Quercus nigra	1,000
American Sycamore	Platanus occidentalis	800
Tulip Poplar	Liriodendron tulipfera	800
Southern Crabapple	Malus angustifolia	800
Northern Red Oak	Quercus rubra	600
Common Persimmon	Diospyros virginiana	500
American Plum	Prunus americana	500
Eastern Redbud	Cercis canadensis	500
Common Elderberry	Sambucus canadensis	200
Black Walnut	Juglans nigra	100
	Total	10,000

 Table 5. Green Valley Farm II Planted Species Summary

Table 6. Green Va	ılley Farm II S	Supplemental	Planted Species

Common Name	Size (gallons)	Stems Planted
Cherrybark oak	1	33
	1	63
American Elm	2	148
	3	20
Hackberry	5	79
Pawpaw	3	40
Din ook	1	223
PINOak	3	148
Tulin nenler	3	26
Tulip poplar	5	31
Red oak	3	10
Redbud	3	46
	1	110
River birch	2	121
	3	59
Churnerd eal	1	116
Shumard Oak	3	4
Sycamore	5	12
	1	78
white oak	3	55
Willow oak	1	78
	Total	1500

				Success	Average
	Planted	Volunteer	Total	Criteria	Planted
Plot #	Stems/Acre	Stems/Acre	Stems/Acre	Met?	Stem Height
1	890	2469	3359	Yes	4.2
2	728	931	1659	Yes	5.1
3	445	81	526	Yes	4.7
4	728	162	890	Yes	3.4
5	445	243	688	Yes	4.4
6	324	40	364	Yes	6.6
Project Avg	594	654	1248	Yes	4.6

 Table 7. Green Valley Farm II Vegetation Plot Mitigation Success Summary

Gre			Current Plot Data (MY4 2023)												Annual Means																					
			100	111-01	L-0001	100	111-01-	0002	100	111-01	-0003	10	0111	-01-000)4	1001	11-01-	0005	100	111-01·	0006	M	IY4 (202	3)	N	IY3 (202	22)	N	Y2 (202	21)	N	1Y1 (20	20)	N	IYO (202	20)
Scientific Name	Common Name	Species Type	PnoLS	P-all	Т	PnoLS	P-all	Т	PnoLS	P-all	Т	Pno	LS P-	all T	F	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 negundo	boxelder	Tree						1	L			1			3			5			1			11			6	5								
Acer rubrum	red maple	Tree																												18						
Asimina triloba	pawpaw	Tree																	1	1	. 1	. 1	1	1												
Betula nigra	river birch	Tree	7		7 7	7 2	2	2	2				2	2	2	1	1	1	2	2	2	14	14	14	17	17	17	12	12	14	15	15	15	18	18	18
Cercis canadensis	eastern redbud	Tree				6	6	6	5										1	1	. 1	. 7	7	7	7	7	7	′ 5	5	5	6	6	6	1	1	1
Diospyros virginiana	common persimmon	Tree																										1	1	1	1	1	. 1	14	14	14
Fraxinus pennsylvanica	green ash	Tree			11	L		1	L															12			29)		16			25			
Juglans nigra	black walnut	Tree																1						1										3	3	3
Liquidambar styraciflua	sweetgum	Tree			32	2		16	5															48			67	'		55			22			
Liriodendron tulipifera	tuliptree	Tree	3		3 15	5 1	. 1	. 4	ł			1			1							4	4	21	4	4	11	. 2	2	6	2	2	8	3	3	3
Malus angustifolia	southern crabapple	Tree																													1	1	. 1	4	4	4
Morus rubra	red mulberry	Tree							1	. 1	L	1	2	2	2							3	3	3	5	5	5	4	4	4	5	5				
Nyssa sylvatica	blackgum	Tree							1	. 1	L	1										1	1	1	1	1	1									
Platanus occidentalis	American sycamore	Tree			e	5 3	3	5	5							1	1	1				4	4	12	6	6	29	5	5	9	6	6	12	14	14	14
Prunus americana	American plum	Tree																																5	5	5
Quercus	oak	Tree																										1	1	1						
Quercus alba	white oak	Tree	7		7 7	7 1	. 1	. 1	L 3	(i)	3	3	1	1	1	2	2	2				14	14	14	14	14	14	12	12	12	13	13	13	16	16	16
Quercus nigra	water oak	Tree	1		1 1	L																1	1	1	1	1	1	. 1	1	1	2	2	2	14	14	14
Quercus phellos	willow oak	Tree	4		4 4	1 5	5	5	5 1	. 1	L	1	2	2	2				1	1	. 1	. 13	13	13	13	13	13	11	11	11	12	12	12	43	43	43
Quercus rubra	northern red oak	Tree							4	. 4	t	4	10	10	10	7	7	7	2	2	2	2 23	23	23	23	23	23	19	19	19	26	26	26	19	19	19
Sambucus canadensis	Common Elderberry	Shrub																																1	1	1
Ulmus americana	American elm	Tree							1	. 1	L	1	1	1	1				1	1	. 1	. 3	3	3	3	3	3									
		Stem count	22	2	2 83	3 18	18	41	l 11	. 11	1	.3	18	18	22	11	11	17	8	8	9	88	88	185	94	94	226	73	73	172	89	89	148	155	155	155
		size (ares)		1			1			1				1			1			1			6		6			6			6			6		
	size (ACRES			0.02			0.02			0.02			0	.02			0.02		0.02		0.15			0.15		0		0.15		0.15			0.15		.15	
	Species cou				5 8	36	6	j g	9 6	6	5	8	6	6	8	4	4	6	6	6	5 7	12	12	16	11	11	14	. 11	11	14	11	11	13	13	13	13
Stems per ACRE				89	0 3359	728	728	1659	445	445	5 52	6 7	28	728	890	445	445	688	324	324	364	594	594	1248	634	634	1524	492	492	1160	600	600	998	1045	1045	1045

Table 8. Green Valley Farm II Stem Count Total and Planted by Plot Species

Appendix C

Vegetation Monitoring Plot Photos

Green Valley Farm II Vegetation Monitoring Plot Photos



Vegetation Plot 3 10/10/2023



Vegetation Plot 2 10/10/2023



Vegetation Plot 4 10/10/2023



Vegetation Plot 5 10/10/2023



Vegetation Plot 6 10/10/2023

Appendix D

Vegetation Data Sheets

(GVFI												
Plot (continued): 10011	1-01-00	01			Oct 2022 D	ata Z			THIS YE	EAR'S I	DATA	
ID	Species	map char	source	e X (m)	Y (m)	ddh Height (mm) (cm)	DBH gr (cm) *	ddh Heig (mm) (cm	ht DBH) (cm)	I Re- sprout	Vigor*	Damage*	Notes
Ve	getation Monitoring Dat	a (VMD)]	Datasb	eet			Please fill i	in any missin	g data a	nd corr	ect any	errors.	
Plot	100111-01-0001					Part	y:]	Role:	Date last	t plante	d:	
VMD	Year (1-5): 4 Date:	10/10	113	,	1]	amey			New pla	nting da	ate m/yy?	/
Taxono	mic Standard:			I			atic			۲ Notes: ۶	ampled	, specify re	eason below
Taxono	mic Standard DATE:												
Latitud	e or UTM-N:			Da	tum:								
Longiti	(dec.deg. or m) ade or UTM-E:			U	ſM Zor	ne:							
Coordi	nate Accuracy (m):	X	-Axis	bearin	g (deg)	: 0							
	Plot Dimensions: X:	10 5	ť:	10	🗌 Plo	t has reverse or	ientation fo	r X and Y ax	is (Y is 9	0 degree	es to the	right of X	
<u></u>					I	Oct 2022 D	ata Z			THIS YE	EAR'S I	DATA	
m	0	Map	Source	* X	Y	Height	DBH g	Heigl	nt DBH	Re-	Vigor*	Damage*	Notes
ID	Species Name	char		0.1m	0.1m	1cm*	1 cm *	lcm [*]	* 1 cm	sprout			
1	Quercus phellos	a	R	0.3	0.3	77.0		110			3		
2	Quercus nigra	Ð	R	3.2	0.2	165.0	0.2	220	0.8		3		
3	Quercus phellos	k	R	4.7	0.3	30.0		30			2		
5	Quercus phellos	Q	R	7.2	0.2	90.0		120			3		
6	Quercus phellos	(t)	R	8.5	0.2	50.0		30		K	2		
7	Betula nigra	v	R	9.4	2.3	132.0	DBH?	140	0.2		3		
8	Quercus alba	s	R	8.2	2.4	25.0		30			3		
9	Betula nigra	Þ	R	7.1	2.5	70.0		80			3		
10	Betula nigra	\bigcirc	R	5.5	2.6	150.0	0.2	140	0.2	╧╋	2		
11	Liriodendron tulipifera	(j)	R	4.0	2.7	73.0		140	0.4		3		
12	Quercus alba	e	R	2.8	2.9	150.0	0.2	170	0.8	<u>́ЦЦ</u>	3		
13	Betula nigra	Ъ	R	1.4	3.0	185.0	0.4	220	, 0.7	┼┝┥	13		~
14	Quercus alba	(d)	R	2.3	6.4	110.0		140	0,9		3		
15	Betula nigra	(g)	ĸ	3.3	6.2 5.0	92.0		60		<u> A</u>	12		
10	Quercus alba	()	ĸ	4.5	5.9	00.0 72.0		80		┥┝┥	1		
17	Quercus alba) E	R D	5.5	5.6	122.0		130	0.6	┼╞╡╴	2	1	
20	Liriodendron tulinifera	()	R	9.7	6.0	60.0		160	10.0	┼╞╡╴	2		
21	Betula nigra	U C	R	7.5	8.9	16			<u></u>	┼╞╡╴			Real
22	Liriodendron tulipifera	() () ()	R	5.9	9.0	Missing 60.0		X	_	┼╞┽╴	2	<u> </u>	r way
23	Betula nigra		R	3.7	9.1	210.0	0.7 🗖	30	. 14	┼╞┽╴		+	
24	Betula nigra	۳ ۵	R	1.9	9.4	175.0	0.2	210	10.7	┼╞╡╴	2		
317	Quercus alba	w	R	9.8	5.9	65.0		129		┤╞┥╴	3		
# stems:	23 New Stems, n	ot include	d last y	ear, b	ut are o	bviously plante	d. If more	space needed	, use bla	nk PWS	(Plante	d Woody S	Stems) Form:
Snecie	s Name	Source*	X	Y ()		Height DBH	Vigor*	Dam	age*	I	Notes	-	
specie	D 140000		(m)	(<u>m</u>)		1 cm ⁺ 1 cm			0-	r			
		┨┝────┨╽					┨┠───┼			{			
		┨┝────┨╽					┨┠───┼						
*SOURC	E: Tr=Transplant, L=Live sta	ke, B=Ball	and bur	lap, P=	Potted,	LI Tu=Tubling, R=b	are Root, M=	Mechanically.	U=Unkn	own			p.]
*VIGOR 1=unlike	4=excellent, 3=good, 2=fair, y to survive year, 0=dead.	* A	DAMA NIMal	.GE: R , Huma	EMoval in TRAN	, CUT, MOWing, Apled, Site Too V	BEAVer, D /ET, Site To	EER, RODents o DRY, FLOO	, INSects, D, DROU	, GAME, 1 Ight, STO	LIVEST RM, HU	ock, Other/ RRicane, D	Unknown ISeased, VINE

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.

M=missing.

Plot (continued):	100111-01-0001			Oct	: 2022 D	ata	No			T	HIS YE	AR'S D	ATA	
ID	Species	map sourc char	xe X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	tes*	ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	Vigor*	Damage*	Notes

		SEE	DLINGS —	- Height	CLASSES	SA	PLINGS —	DBH		TREES	— DBH
Species Name		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)
RPÉ					0 1		0 1 P	8 0 * P	\$ 0		
LOC			e ø 0		0						
fst					e e 1		B :::	∅ŗ;			
ίλ.			4 6 4 9					0 8			
equired if cut-off >10cm or su	bsample	? 100%	•	•1 •2	• 3 • • • • •	●-●5 ● ●		7	12	10	Form WS2, v
of stems on plot <u>1</u>	00111	-01-	<u>0001</u>					\rightarrow X-axis:	<u>0</u> °	\frown	# stems: . map size



 *SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown
 p. 2

 *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

 M=missing.
 *DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown

Vegetation Monitoring Data (VMD) Datasheet

Please fill in any missing data and correct any errors.

Plot	100111-01-0002					Party	/:	Role: Date last planted:
VMD	Year (1-5): 4 Date:	10 / 10	1/2	- -	1		amen	New planting date m/yy? /
Taxon	omic Standard:	10 . 12	· .	~7	L	¥	atit	Check box if plot was not
Taxono	omic Standard DATE:							Notes: sampled, specify reason below
Latitud	e or UTM-N:			D	atum:			
Longit	(dec.dcg. or m)				TM Zoi	ne:		
Coordi	nate Accuracy (m):		X-Axi	bearin	ng (deg)	. 70		
	Plot Dimensions: X:	10	y: Γ	10		· · · · · · · · · · · · · · · · · · ·		
				ļ		t has reverse on	entation ic	of A and Y axis (Y is 90 degrees to the right of A
						Oct 2022 D	ata Z	THIS YEAR'S DATA
ID	Species Name	Map char	Sourc	_{же*} Х 0.1 п	Y 0.1m	Height 1cm*	DBH (2) 1 cm *	Height DBH Re- Vigor* Damage* Notes
26	Quercus phellos	0	R	04	03	83.0		
27	Platanus occidentalis	(a)	R	0.4	14	200.0		
28	Quercus phellos	6	R	0.0	2.6	40.0		
29	Platanus occidentalis	e G	R	0.0	3.9	140.0		
30	Platanus occidentalis	•	R	0.9	53	140.0		
31	Quercus phellos	e O	R	0.0	64	35.0	··· []	
32	Retula niora	U O	R	0.9	7.6	57.0		
33	Cercis canadensis	U D	R	0.9	9.0	85.0		Mussing
35	Cercis canadensis		R	33	6.8	77.0		
36	Betula nigra		R	31	53	200.0		
37	Ouercus alba		R	3.1	3.4	50.0	··· []	
38	Cercis canadensis	CC C	R	31	2.4	86.0		
39	Betula nigra	Θ	R	3.0	0.6	100.0		
40	Cercis canadensis		R	5.5	15	90.0		
43	Ouercus phellos	() () ()	R	5.8	7.5	150.0		
45	Ouercus phellos	U S	R	9.7	9.8	60.0		
48	Cercis canadensis	U 0	R	9,9	2.9	180.0		
49	Cercis canadensis	୍ଦ୍	R	9.7	1.2	250.0		
591	Liriodendron tulinifera	U G	R	3.2	5.5	290.0		
# stems:	19 New Stems n	w ot include	 ed last	vear h	ut are o	bviously nlante	-™∟ Ifmore	e snace needed use blank PWS (Planted Woody Stems) Form:
	10W Dioi113, 11	C-week	X	Y Y	ai ale u	Height DBH		
Specie	s Name	Source*	(m)	(m)		1 cm* 1 cm	vigor*	Damage* Notes
		┨┝────┤	ļ				┨┝───┥	
		┫┝────┥	<u> </u>	\mid			┨┠────╂	
			1					

 *SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown
 p. 3

 *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.



 *SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown
 p. 4

 *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

 M=missing.
 *DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GAME, LIVESTock, Other/Unknown

Ð

Q

X:5m

চি

(0,0)

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

Please fill in any missing data and correct any errors.

Plot	100111_01_0003					Part	y:	Role: Date last planted:
VMD	Vogr (1 5): 4 Data:	10 / 10	10	2	<u> </u>	——————————————————————————————————————	amer	New planting date m/yy? /
Taxon	amia Standard:	10 / 10	12	- <u></u> 5 -			Latie	Check box if plot was not
Taxon	omic Standard DATE.						······································	Notes: sampled, specify reason below
	onic Standard DATE:							
Latitud	de or UTM-N: (dec.deg. or m)				atum:			
Longit	ude or UTM-E:			ب اب	IM Zoi	ne:		
Coord	inate Accuracy (m):		X-AXI9	s bearin	ig (deg)	: 170		
	Plot Dimensions: X:	10	Y:	10	Plo	t has reverse or	entation fo	or X and Y axis (Y is 90 degrees to the right of X
						Oct 2022 D	ata Z	THIS YEAR'S DATA
ID	Species Name	Map char	Sourc	e* X 0.1m	Y 0.1m	Height 1cm*	DBH 🛱 1 cm *	Hcight DBH Rc- Vigor* Damage* Notes 1cm* 1 cm sprout
51	Quercus alba	Ъ	R	0.2	0.4	72.0		50 0.5 3
53	Quercus alba	ø	R	3.8	2.3	60.0		60 2
56	Quercus alba	Ġ	R	8.4	0.9	47.0		65 3
61	Quercus rubra	Ð	R	3.7	5.3	55.0		(α) \square 3
62	Quercus rubra	d	R	2.4	5.6	55.0		55 2
69	Platanus occidentalis	h	R	7.7	7.3	48.0		M milling
71	Quercus rubra	1	R	9.8	7.1	237.0	0.4	250 1.0 2
594	Quercus rubra	e	R	3.6	4.7	143.0	0.1	150 0.3
595	Ulmus americana	a	R	0.1	5.7	205.0	0.3	300 2.2 4
596	Nyssa sylvatica	c	R	2.2	9.8	33.0		10 4
599	Morus rubra	Í	R	9.9	1.2	195.0	0.1	230 0.5
601	Quercus phellos	k	R	9.9	5.0	139.0	0.1	1530.333
# stems:	12 New Stems, n	ot include	ed last	year, b	ut are c	bviously plante	d. If more	space needed, use blank PWS (Planted Woody Stems) Form:
Specie	es Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Vigor*	Damage* Notes





*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, *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 1=unlikely to survive year, 0=dead, M=missing. Strangulation, UNKNown, specify other.

Vegetation Monitoring Data (VMD) Datasheet

Please fill in any missing data and correct any errors.

Plot	100111-01-0004	<u> </u>				Party	<i>y</i> :	Role	: Dat	e las	t plante	d:	P
VMD	Year (1-5): 4 Date:	10/10	17	2 -	/	773	ancy		Nev	v pla	inting da	ite m/yy?	/
Taxono	omic Standard:	· · ·	<u>ل</u>	-/	I		Latie		Not	es' s	Sheck be ampled	ox if plot v , specify r	was not eason below
Taxono	omic Standard DATE:									00.			
Latitud	e or UTM-N:			D	atum:								
Longiti	(dec.deg. or m) ude or UTM-E:			U	TM Zo	ne:							
Coordi	nate Accuracy (m):	2	K-Axi	s bearin	ng (deg): 90		L					
	Plot Dimensions: X:	10	ү :	10	- Pic	t has reverse ori	entation fo	or X and Y axis (Y	 is 90 de	egree	es to the	right of X	ζ
			L			Oct 2022 D	ata 🖂		711 TUI	S VI	CADIC I		
		Man	-	. x	v	Height		Height	DBH	D II Re-			. .
ID	Species Name	char	Sourc	0.1n	n 0.1m	1cm*	1 cm *	1cm*	1 cm sp	prout	Vigor*	Damage*	Notes
77	Quercus alba	Ъ	R	Q.4	0.7	62.0		00			2		
78	Quercus rubra	Ð	R	5.3	0.6	95.0		90			1	1	I
79	Quercus rubra	Ġ	R	4.3	1.3	72.0		60	Ĩ		3	1	
80	Quercus phellos	g	R	3.1	2.2	195.0	0.3 🗌	310 1	1.5		3		
81	Quercus phellos	e	R	2.0	3.3	60.0		90			3		
83	Quercus rubra	େ	R.	0.5	8.0	60.0		60	Ī		3		
84	Quercus rubra	d	R	1.5	7.0	Missing		X	Ī		X		Dead
85	Morus rubra	ſ	R	2.5	6.2	58.0		M	Ť				Missing
86	Quercus rubra	(j	R.	3.3	5.4	65.0		70	Ī		3	1	
87	Morus rubra	k	R	4.3	4.7	47.0		50	Ī		2	1	
88	Morus rubra	n	R	5.2	3.8	65.0		20	Ī	X	ŀ		
89	Morus rubra	0	R	6.4	3.0	Missing		X	Ī		X		Dead
91	Quercus rubra	s	R	8.7	1.1	40.0		30			2		shaded
92	Quercus rubra	u	R	9.8	0.5	20.0		25			3	1	
93	Quercus rubra	t	R	8.8	4.8	57.0		40		X	1	1	1
94	Quercus rubra	Q	R	7.7	5.7	70.0		45			2	l	sheld out
95	Quercus rubra	Þ	R	6.7	6.4	58.0		X			X	Ì	Doal
100	Betula nigra	Ţ	R	8.2	9.6	143.0	0.2	200 1	1.0		3		1
603	Betula nigra	h	R	3.3	2.4	220.0	0.4	2.00 1	1.0		2	Pulla	
604	Quercus rubra	a	R	0.1	8.4	60.0		65			3		
605	Ulmus americana	1	R	4.8	5.0	195.0	0.3	220 2	1.0		3		
# stems:	21 New Stems, r	ot include	d last	year, t	out are o	bviously plante	d. If more	space needed, use	e blank F	ws	(Plante	d Woody :	Stems) Form:
Specie	s Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Vigor*	Damage*]	Notes		
QUZ	.V.					180 0.4	$\overline{\mathcal{S}}$			ן ך			
										1			

p. 7

M=missing.

À)

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

 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):	100111-01-0004			Oct	2022 Da	ata	No			TI	HIS YE	AR'S D	ATA	
ID	Species	map sour char	rce X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	tes*	ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	Vigor*	Damage* 1	Notes





*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 8 *DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSccts, GAME, LIVESTock, Other/Unknown *VIGOR: 4=excellent, 3=good, 2=fair, ANIMal, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRicane, DISeased, VINE 1=unlikely to survive year, 0=dead, M=missing. Strangulation, UNKNown, specify other.

Vegetation Monitoring Data (VMD) Datasheet

Please fill in any missing data and correct any errors.

7

Plot <u>100111-01-0005</u>					Party	/:	Role: Date last planted:
VMD Year (1-5): 4 Dat	: 10 / 10	1/2	3 -	1		aver	New planting date m/yy?
Taxonomic Standard:				L		Lafr	Notes: sampled, specify reason below
Taxonomic Standard DATE:							
Latitude or UTM-N:			D	atum:			
(dec.deg. or m) Longitude or UTM-E:			U	TM Zon	ie:		
Coordinate Accuracy (m):		X-Axi	s bearir	ıg (deg)	: 30		
Plot Dimensions: X	10	Y :	10	Plo	t has reverse ori	entation for	or X and Y axis (Y is 90 degrees to the right of X
				Γ	Oct 2022 D	ata Z	THIS YEAR'S DATA
	Мар	Sourc	_{e*} X	Y	Height	рвн 🕅	Height DBH Re- Vigor* Damage* Notes
ID Species Name	char		0.1m	0.1m	lcm*	1 cm *	1cm* 1 cm sprout
103 Platanus occidentalis	a) R	0.5	0.1	145.0	0.1	250 1.0 3
115 Quercus rubra	n) R	9.8	1.3	82.0		80 2
116 Quercus rubra	1) R	9.0	1.8	42.0		75 3
117 Quercus rubra	(j) R	8.3	2.4	90.0		100 3
120 Quercus rubra	¢) R	5.8	4.5	Missing		X Dead
121 Quercus rubra	e) R	4.0	5.9	Missing		X D Dead
125 Quercus rubra	େ) R	0.8	8.8	91.0		80 2
126 Quercus alba	d) R	2.0	9.3	37.0		70 3
130 Quercus rubra	k) R	8.7	6.1	45.0		40 1
132 Betula nigra	h	R	6.4	7.6	205.0	0.1	310 2.1 3
133 Quercus alba	ſ	R	5.3	8.4	170.0	0.2	170 1.5 2
607 Quercus rubra	B	R	9.8	1.0	90.0		M mission
608 Quercus rubra	Ъ	R	0.9	1.1	109.0	DBH?	120 2
609 Quercus rubra	i	R	8.1	7.8	165.0	0.2	170 0.7 3
# stems: 14 New Stems	s, not includ	ed last	year, t	out are o	bviously plante	d. If more	space needed, use blank PWS (Planted Woody Stems) Form:
Species Name	Source*	X (m)	Y (m)		Height DBH 1 cm* 1 cm	Vigor*	Damage* Notes

Plot (continued):	100111-01-00	05			Oct	: 2022 D	ata	No			T	HIS YE	EAR'S D	ATA	
ID	Species	mar cha	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	tes*	ddh (mm)	Height (cm)	DBH (cm)	Re- sprout	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,

 *DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSects, GA

 p. 10 *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 1-unlikely to survive year, 0-dead, M=missing. Strangulation, UNKNown, specify other.

Vegetation	Monitoring	Data ((VMD)	Datasheet
regulation	wounding	Data	(• • • • • • • • • •	Datasmeet

Please fill in any missing data and correct any errors.

					Par	tv:		Ro	ole: D	ate las	t plante	d:	
	<u> </u>		, r		——————————————————————————————————————			ľ	N	ew pla	inting d	ate m/yy'	? /
VMD Year (1-5): 4 Date:	ļ	/		/	/ [=						Check b	ox if plo	was not
Taxonomic Standard:										otes: s	ampled	l, specify	reason below
Taxonomic Standard DATE:													
Latitude or UTM-N: (dcc.deg. or m)			Da	tum:	AD83/W								
Longitude or UTM-E:			UT	M Zon	e:								
Coordinate Accuracy (m):		X-Axis	s bearing	g (deg)	50			L					
Plot Dimensions: X:	10	Y:	10	Plo	t has reverse o	rientation	n for 2	X and Y axis	<u>(Y is 90</u>	degree	es to the	e right of	x
<u></u>				Γ	Oct 2022 1	Data	z		T	HIS Y	EAR'S	DATA	
	Map	Sourc	e∗ X	Y	Height	t DBH	otes	Height	DBH	Re-	Vigor*	Damage	* Notes
ID Species Name	cha		0.1m	0.1m	1cm*	1 cm	*	1cm*	1 cm	sprout		2011020	
612 Quercus phellos	a	R	0.2	1.5	142.0) 0.1		50	1.2	Π	3	Browse	T
613 Morus rubra	G) R	1.2	3.2	150.0	0.2		M		Π		1	missing
614 Cercis canadensis	d) R	2.8	3.5	143.0) 0.3		45		X	3		stump sp
615 Betula nigra	<u>б</u>) R	0.8	8.5	135.0) DBH?		X		Ħ	1	1	Deal
616 Quercus rubra	(i) R	8.2	6.7	200.0) 0.7		230	0.9	一	3	1	1
617 Ulmus americana	(h) R	8.2	3.3	145.0	0.3	\square	151	nu	一一	$\frac{1}{1}$	Prona	
618 Betula nigra	(P) R	6.8	8.9	270.0) 1.9	Π	190	0.7	十	2	1000	
619 Betula nigra	6) R	6.2	9.0	190.0	0.3		271	25	H		1	
620 -Platanus occidentalis A <	TR F	, R	6.6	9.6	220.0) 0.6	\square	220	10	++	2	+	
621 Betula nigra	· · · ·	, D	0.6	00				222		┢	12		
		1 1	9.0	0.0	220.0	0./		1 4 54 8	1 2 4 1		1 3	1	
# stems: 10 New Stems	not includ) K ed last	year bi	0.0 11 are 0	220.0 byiously plant	0.7 ted If m		5.50	$\frac{3.0}{1}$	PWS	(Plante	d Woody	Stems) Form
# stems: 10 New Stems,	not includ	ed last X	year, bi Y	o.o it are o	220.0 bviously plant Height DBI	ted. If mo	ore sp	ace needed,	3.0 1se blanl	PWS	(Plante	d Woody	Stems) Form
# stems: 10 New Stems, Species Name	not includ Source*	ed last X (m)	9.0 year, bu Y (m)	o.o it are o	bviously plant Height DBI 1 cm* 1 cm	ted. If mo H n Vigo	ore sp or*	pace needed, p Damag	Ise blanl e*	PWS	(Plante Notes	d Woody	Stems) Form
# stems: 10 New Stems, Species Name	not includ Source*	ed last X (m)	year, bu Y (m)	o.o it are o	bviously plant Height DBI 1 cm^* 1 cm 1 (J)	ted. If mo	ore sp or*	pace needed, T	<u>3.0</u> 1se blanl re*		(Plante Notes	d Woody	Stems) Form
# stems: 10 New Stems, Species Name	not includ Source*	ed last X (m)	year, bu Y (m)	it are o	bviously plant Height DBI 1 cm* 1 cm 1 JUS 0, S	ted. If models in the second s	ore sp	3 30 pace needed, 1 Damag	ise blanl	PWS	(Plante Notes	l Woody	Stems) Form
# stems: 10 New Stems, Species Name	not includ Source*	ed last X (m)	year, bu Y (m)	o.o	bviously plant Height DBJ 1 cm^* 1 cm $1 \text{ fg} 0, \leq$	ted. If mo	ore sp	bace needed, n	ise blanl		(Plante Notes	d Woody	Stems) Form
# stems: 10 New Stems, Species Name	not includ Source*	(m)	year, bu Y (m)	o.o	bviously plant Height DBI 1 cm* 1 cm }↓↓∫ ○, ≤	ted. If mon	ore sp	bace needed, i Damag	<u>3.0</u> 1se blanl e*		(Plante Notes	d Woody	I Stems) Form
# stems: 10 New Stems, Species Name QULL Natural Wood	not includ Source*	ms -	year, bu Y (m) tallie	d by	bviously plant Height DBJ 1 cm* 1 cm リイム ()、シ	ted. If mo	ore sp or*	Damag	≤.0 se blan e* <u>t-off</u>		(Plante Notes	d Woody	Stems) Form
# stems: 10 New Stems, Species Name OULLU Natural Wood Height Cut-Off (All stems short	not includ Source*	(m) (m) (m) (m) (m) (m) (m) (m) (m) (m)	year, bu Y (m) tallie	o. o It are o d by 10 cm, o	bviously plant Height DBJ 1 cm* 1 cm المراج (ر) ح species xplain why to th	ted. If modelships of the second seco	ore sp or*	Damag blanation of cu u bsam pling** cm	<u>}</u> .0 ise blan] e* <u>t-off</u> : n □ 10	PWS	(Plante Notes	d Woody	Stems) Form
# stems: 10 New Stems, Species Name QUL U Natural Wood Height Cut-Off (All stems short	dy Stell ter than this	ms - are ignd	year, bu Y (m) tallie pred. If > INGS -	6.6 It are o d by 10cm, c – HH	species sylain why to th EIGHT CLA	ted. If models in the right.):	ore sp or*	Damag Da Da Damag Da Da Da Da Da Da Da Da Da Da Da Da Da	<u> </u> <i>≤</i> .0 ise blanl e* <u>t-off</u> : n □ 10 - DBH	PWS	(Plante Notes	c m REFS —	Stems) Form
# stems: 10 New Stems, Species Name OULU Natural Wood Height Cut-Off (All stems short Species Name	not includ Source*	ms - are igno	year, bu Y (m) tallie pred. If > INGS - 0 cm-	o. o it are o d by -10 cm, o - HH 50 10	species splain why to the EIGHT CLA o cm- 100 100 cm- 120	ted. If more that the second s	ore sp or* Exi & s 0 10 SA Sub- Sonl	Damage Da Damage Da Damage Da Da Da Da Da Da Da Da Da Da Da Da Da	<u>}</u> <u>t-off</u> <u>-</u> DBH		(Plante Notes	cm REES -	- DBH =10
# stems: 10 New Stems, Species Name QUE 4 Natural Wood Height Cut-Off (All stems short Species Name	dy Ster ter than this c Se	ms - are igno EEDL	year, bu Y (m) tallie bred. If > INGS - 0 cm- 50 cm	6.6 at are o d by 10cm, 6 - HH 50 10	species system why to the comparison of the comp	he right.): SSES CCM-7 CM	uore sp r* ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Damage Da Damage Da Damage Da Da Da Da Da Da Da Da Da Da Da Da Da	<u> </u> <u></u>		(Plante Notes	c m REES –	- DBH =10 (write DBH)
# stems: 10 New Stems, Species Name OULU Natural Wood Height Cut-Off (All stems short Species Name ACNE	dy Stel ter than this Surce*	ms - are igno EEDL b- ed 5	year, bu Y (m) tallie ored. If > INGS - 0 cm- 50 cm	6.6 at are o d by 10cm, c - HH 50 10	species splain why to the Comparison of the second secon	he right.): SSES cm-7 cm	L ore sp r* Exp & s 10 SA Sub- Sapl	Damag Da Da Da Da Da Da Da Da Da Da Da Da Da	<u>t-off</u> : n □ 10 - DBH 1-2.5	00cm	(Plante Notes	c m REES – 5-	– DBH =10 (write DBH)
# stems: 10 New Stems, Species Name OULU Natural Wood Height Cut-Off (All stems short Species Name ACNE	dy Ster ter than this C Se	ms - are igno EEDL b- d	year, bu Y (m) tallie bred. If > INGS - 0 cm- 50 cm	6.5 at are o d by -10cm, c - HH 50 10	species system why to the comparison of the system of the comparison of the system of the	ne right.): SSES cm-7 cm	Correspondence Correspo	Damage Da Damage Da Damage Da Da Da Da Da Da Da Da Da Da Da Da Da	<u> </u>		C 137	cm REES – 5-	Stems) Form
# stems: 10 New Stems, Species Name OULU Natural Wood Height Cut-Off (All stems short Species Name ACNE	dy Ster dy Ster ber than this C Se c Se	ms - are igno EEDL b- ed 5	year, bu Y (m) tallie bred. If > INGS - 0 cm- 50 cm	6.6 at are o d by -10cm, c - HH 50 10	xplain why to the transmission of transmission of the transmission of transmis	he right.): SSES cm-7 cm	L ore sp r* Exp & s 0 10 SA Sub- Sap1	Damag Damag Damag <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Da</u>	<u> </u> <u></u> <u>ise blanl</u> <u>e</u> * <u>t-off</u> <u>n</u> □ 10 - DBH <u>1</u> -2.5	00cm	(Plante Notes	cm REFS –	- DBH =10 (write DBH)
# stems: 10 New Stems, Species Name OULU Natural Wood Height Cut-Off (All stems short Species Name ACNE	dy Ster dy Ster dy Ster by Su c Se	ms - are igno EEDL b- cd 5	year, bu Y (m) tallie ored. If > INGS - 0 cm- 50 cm	6.5 at are o d by 10cm, e 50 10	species sylain why to the Comparison of the Comp	ne right.): SSES cm-7 cm	Exr Exr Exr 10 SA Sub- Sapl	Damag Damag Damag <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Da</u>	<u>t-off</u> := n □ 1(1-2.5		□ 137 C.5-	cm REES – 5-	Stems) Form
# stems: 10 New Stems, Species Name MALA Natural Wood Height Cut-Off (All stems short Species Name ACNE	dy Ste	ms - are igno EEDL b- ed 5	year, bu Y (m) tallie bred. If > INGS - 0 cm- 50 cm	6.6 at are o d by -10 cm, a - HH 50 10	220.0 bviously plant Height DBJ 1 cm* 1 cm 1 cm 1 cm 2 cm 2 cm 2 cm 2 cm 2 cm 2 cm 2 cm 2	he right.): SSES cm-7 cm	Lucia constructions of the second sec	Damag Damag Damag <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Da</u>	<u> </u> <u></u>		C 137	c m REES –	- DBH =10 (write DBH)
# stems: 10 New Stems, Species Name OULU Natural Wood Height Cut-Off (All stems short Species Name ACNE	dy Stel	ms - are igno EEDL b- ed 5	year, bu Y (m) tallie ored. If > INGS - 0 cm- 50 cm	6.6 at are o d by -10 cm, c - HH 50 10	220.0 bviously plant Height DBJ 1 cm* 1 cm 1 cm 2 cm 2 species xplain why to th EIGHT CLA 0 cm- 100 0 cm 137 *	ne right.): SSES cm-7 cm	L ore sp r* Exp & s 10 SA Sub- Sap1	Damag Da Da Da Da Da Da Da Da Da Da Da Da Da	<u><u></u> <u></u> </u>		CPlante (Plante Notes	c m REES –	- DBH =10 (write DBH)
# stems: 10 New Stems, Species Name OULU Natural Wood Height Cut-Off (All stems short Species Name ACNE	dy Ster	ms - are igno EEDL b- ed 5	year, bu Y (m) tallie ored. If > INGS - 0 cm- 50 cm	6.5 at are o d by -10cm, c - HH 50 10	species system why to the comparison of the system of th	ne right.): SSES cm-7 cm	Lucitor or sport of the sport o	Damag Damag Damag <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u>	<u> </u>		C 137	c m REES – 5-	- DBH =10 (write DBH)
# stems: 10 New Stems, Species Name <u>OUF</u> <u>Natural Wood</u> <u>Height Cut-Off</u> (All stems short <u>Species Name</u> <u>ACNÉ</u>	dy Ster	ms - are igno	year, bu Y (m) tallie bred. If > INGS - 0 cm- 50 cm	6.6 at are o d by -10 cm, c - HH 50 10	species xplain why to the Comparison of the second secon	he right.): SSES cm-7 cm	L ore sp r* Exp & s ore sp r* Exp & s ore sp r* D 10 SA Sub- Sap1	Damag	<u> </u> <u></u>		CPlante (Plante Notes	cm REFS –	- DBH =10 (write DBH)
# stems: 10 New Stems, Species Name OULU Natural Wood Height Cut-Off (All stems short Species Name ACNE **Required if cut-off >10cm or sub	dy Ster	ms - are igno EEDL b- ed 5	year, bu Y (m) tallie ored. If > INGS - 0 cm- 50 cm	6.5 at are o d by -10cm, d - HI 50 10	species system species splain why to the CIGHT CLA C cm- 100 0 cm 137 0 0 cm 100 0 cm 137 0 0 cm 100 0 c	• • 4	Core sp r*	Damag Damag Damag <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u> <u>Damag</u>	<u> </u>		□ 137 T. 2.5-	cm REES - 5-	- DBH =10 (write DBH) 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
 p.

 *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.

Map of stems on plot <u>100111-01-0006</u>



stems: 10 map size: small



 *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, 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

 p. 12 Strangulation, UNKNown, specify other. M=missing.