

**Year 5 Monitoring Report**  
**Final**  
**RES Randleman Group A**  
**Riparian Buffer Mitigation Project**

**DMS Project # 100046 (Contract # 7427)**  
**DWR Project # 2018-1330**  
**RFP #16-007242**

Randolph County, North Carolina  
Cape Fear River Basin HUC 03030003

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# 1 PROJECT SUMMARY

## 1.1 Project Overview

Environmental Banc & Exchange, LLC (EBX), a wholly-owned subsidiary of Resource Environmental Solutions (RES), is pleased to provide this Monitoring Report for the RES Randleman Group A Riparian Buffer Mitigation Project (Project) as a full-delivery buffer mitigation project for the Division of Mitigation Services (DMS) (DMS #100046). The RES Randleman Group A includes three sites: Pequod, Schmid Creek, and Sunbeam. These sites provide riparian buffer mitigation credits for unavoidable impacts due to development within the Randleman Lake Watershed of the Cape Fear River Basin, United States Geological Survey (USGS) 8-digit Hydrologic Unit Code (HUC – 03030003). The Mitigation Plan was approved 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 Project provides significant functional uplift to the watershed and assists DMS with achieving its mitigation goals in the Randleman Lake Watershed. The Project provides up to 1,665,425.934 ft<sup>2</sup> (38.23 acres) of riparian buffer mitigation assets. These are derived from restoration, enhancement, and preservation of riparian buffers in the Randleman Lake Watershed.

## 1.2 Buffer Credit Adjustment

### Pequod

In MY5, it was found that there was an error in the conservation easement survey that overlapped the conservation easement with a Duke powerline easement. The Duke easement is located along Huff Rd and is adjacent to Reaches BF1 and BF5. The area within the conservation easement totals 0.16 acres. Buffer credits were removed from the overlapping area and buffer credit tables were updated accordingly. This results in an overall credit reduction from 812,085.766 to 806,687.401 which is a loss of 5,398.365 riparian buffer credits (BMU) (**Table 1a**).

### Sunbeam

In MY5, it was found that there was an error in the conservation easement survey that overlapped the conservation easement with a DOT easement. The DOT easement is located between I-74 and Reach ZF3. This area within the conservation easement totals 0.02 acres. Buffer credits were removed from the overlapping area and buffer credit tables were updated accordingly. This results in an overall credit reduction from 586,003.039 to 585,000.988 which is loss of 1,002.051 riparian buffer credits (BMU) (**Table 1c**).

Overall, this results in a reduction from 1,671,826.350 ft<sup>2</sup> (38.38 ac) to 1,665,425.934 ft<sup>2</sup> (38.23 ac) which is a loss of 6,400.416 (0.15 ac) riparian buffer credits.

<b>Site</b>	<b>Riparian Buffer Credits</b>
Pequod	806,687.401 ft <sup>2</sup> (18.52 ac)
Schmid Creek	273,737.545 ft <sup>2</sup> (6.28 ac)
Sunbeam	585,000.988 ft <sup>2</sup> (13.43 ac)
<b>Total</b>	<b>1,665,425.934 ft<sup>2</sup> (38.23 ac)</b>

The conservation easement of the three sites combined totals approximately 50 acres. Primary land use within the watershed is largely residential, agricultural, commercial, and forested. The goal of the Project is to restore, enhance and preserve ecological function to the existing stream and riparian buffer by establishing appropriate plant communities while minimizing temporal and land disturbing impacts. Buffer improvements and the removal of livestock, helps to filter runoff from agricultural fields, thereby reducing nutrient and sediment loads to Project channels and the overall watershed. Restoration, enhancement, and preservation of the Randleman Lake riparian buffer (as defined in 15A NCAC 02B .0250) results in a reduction of the water quality stressors affecting the Project: livestock access and a lack of riparian buffer. Immediate water quality benefits and pollutant removal within the vicinity of the Project include the exclusion of livestock access to streams and reduction in nutrient loads from agricultural land-uses. This Project is consistent with the management strategy for maintaining and protecting riparian areas in the Randleman Lake watershed.

### ***1.3 Monitoring Protocol and Project Success Criteria***

Annual vegetation monitoring and visual assessments are to be conducted annually throughout the five-year monitoring period. Riparian buffer vegetation monitoring for all three sites is based on the "Carolina Vegetation Survey-Ecosystem Enhancement Program Protocol for Recording Vegetation: Level 1-2 Plot Sampling Only Version 4.2". Monitoring plots are to be installed a minimum of 100 meters squared in size and cover at least two percent of the planted mitigation area. These plots are to be randomly placed throughout the planted riparian buffer mitigation area and be representative of the riparian buffer restoration and enhancement areas where applicable (i.e. when enhancement credit is being generated from supplemental planting under 15A NCAC 02B .0295 (n)). The following data is to be recorded for all trees in the plots: species, height, planting date (or volunteer), and grid location. All stems in plots are to be flagged with flagging tape. The Pequod Site has 17 monitoring plots (16 designated to restoration, one designated to enhancement), the Schmid Creek Site has eight monitoring plots, and the Sunbeam Site has 12 monitoring plots.

Photos are to be taken from all photo points each monitoring year and provided in the annual reports. Visual inspections and photos are to be taken to ensure that enhancement areas are being maintained and compliant. The measure of vegetative success for the Project Sites is the survival of at least four native hardwood tree species, where no one species is greater than 50 percent of the established stems, established at a density of at least 260 planted trees 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 is also to be performed each year to confirm:

- Fencing is in good condition throughout the site (if applicable);
- no cattle access within the conservation easement area;
- 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 buffer.

<b>Component/ Feature</b>	<b>Monitoring</b>	<b>Maintenance through project close-out</b>
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.
Invasive and Nuisance Vegetation	Visual Assessment	Invasive and noxious species shall be monitored and treated so that none become dominant or alter the desired community structure of the site. Locations of invasive and nuisance vegetation will be mapped.
Site Boundary	Visual Assessment	Site boundaries shall be identified in the field to ensure clear distinction between the mitigation site and adjacent properties. Boundaries will be marked with signs identifying the property as a mitigation site 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 site 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 site 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.
Livestock Fencing (if applicable)	Visual Assessment	Livestock fencing is placed outside the easement limits. Maintenance of fencing is the responsibility of the landowner.

## **2 PEQUOD SITE**

### ***2.1 Project Location and Description***

The Pequod Site is within the Randleman Lake Watershed of the Cape Fear River Basin within the 8-digit Hydrologic Unit Code (HUC) 03030003, 14-digit HUC 03030003010060 and DWR Subbasin Number 03-06-08.

The Pequod Site is located in Randolph County approximately five miles northwest of Archdale, North Carolina (**Figure 1a**). To access the Site head South on Main Street from I-85 and turn immediately left on Aldridge Road, after about a half mile turn right onto Huff Road, in about 0.4 miles the Site is on the left. The coordinates are 35.9107 °N and -79.9381 °W.

The easement, approximately 22.14 acres in size, is comprised of three sections, separated by two crossings, one of which is co-located with a gas easement. There is also an existing sanitary sewer easement within the Site area. The Pequod Site is composed of six stream channels: BF1, BF2, BF3, BF4, BF5, and BF6. BF1 flows directly into Muddy Creek approximately one mile downstream of the site. Reaches BF2, BF3, and BF5 drain to BF1. Reach BF6 drains to Reach BF2 and Reach BF4 drains to reach BF3. BF1 is a perennial unnamed tributary that is the primary feature onsite and has a drainage area of approximately 2,295 acres. The channel runs through pasture from the northern property boundary to the south before entering a culvert under Huff Road. BF1 is approximately 1,047 linear feet. A sanitary sewer easement runs parallel to this channel along the right bank. BF1 exhibits portions of bank instability and erosion from continued cattle access and the lack of a riparian buffer. BF2 is a perennial tributary that flows into BF1. This channel runs from the west to east for approximately 1,455 linear feet. BF2 has a drainage area of approximately 34 acres. BF3 is a perennial tributary that flows from northeast to southwest across the Site property and empties into BF1. A sanitary sewer easement runs parallel to this channel along the left bank. BF3 is approximately 1,463 linear feet and has a drainage area of approximately 65 acres. BF4 is an ephemeral tributary that runs through pasture from the northern property boundary to the south before draining to reach BF3. BF4 is approximately 233 linear feet and has a drainage area of approximately 11 acres. BF5 is a perennial tributary that originates at the southern property boundary before flowing north to its confluence with BF1. BF5 is approximately 328 linear feet and has a drainage area of approximately 10 acres. Reach BF6 is an intermittent stream that originates just downstream of a farm pond and drains to the north to its confluence with Reach BF2 just upstream of an existing gas easement. BF6 is approximately 418 linear feet and has a drainage area of approximately 11 acres. Stream identifications were verified by the DWR site visit on March 26, 2018.

## ***2.2 Project Components***

This Site generates approximately 761,803.459 ft<sup>2</sup> (17.49 acres) of riparian buffer restoration credits on existing non-forested pasture and 44,883.943 ft<sup>2</sup> (1.03 acres) of buffer enhancement credits. The riparian buffer restoration and enhancement adjacent to the ephemeral Reach B4 comprises 1.32 acres (57,464 ft<sup>2</sup>) which is in compliance with 15A NCAC 02B .0295 (o)(7) in that it is only 6.5 percent of the total area of buffer mitigation, which is less than 25 percent of the total area of buffer mitigation (20.45 total acres) that is allowed. The riparian buffer mitigation credits generated will service Randleman Lake buffer impacts within the USGS 8-digit HUC 03030003 of the Cape Fear River Basin. The total mitigation credits that the RES Randleman Group A - Pequod Site will generate are summarized in **Table 1a**.

### ***2.3 Riparian Restoration and Enhancement Approach***

Since this Site was mostly non-forested pasture, per 15A NCAC 02B .0295 (n), buffer restoration activities occurred in the majority of the Site with a few patches of enhancement. Along the upstream left bank of BF3, the densely populated cluster of tree-of-heaven was removed, and the area was replanted with hardwoods. Large individual tree-of-heaven trees were cut down and smaller trees or saplings had herbicide applied to the foliage. A rigorous invasive management plan for these areas is to be followed during the following monitoring years. There is a fixed vegetation monitoring plot located in this area so that any re-sprouts can be identified and treated.

Some additional restoration activities were conducted along BF2 to address the observed trash, pipes and culverts found in the streams and a side gully with no flow that enters the stream. These activities included upgrading the crossing, removing an old box culvert, removing other debris within the buffer, and bank stabilization and grading where banks were compromised. Other restoration activities included the removal of the small non-subject pond above reach BF6. The pond was drained, filled, and planted.

A sanitary sewer easement runs parallel to reaches BF3 and BF1 and crosses reaches BF1, BF2, and BF5. The sewer easement along the left bank of BF3 is located outside of Zone 1 and in full compliance with 15A NCAC 02B .0295 (l)(4)(A-C), and therefore was included in the buffer restoration activities. Pursuant to 15A NCAC 02B .0295 (l) (4), sewer easements in Zone 2 may be suitable for buffer mitigation credit if: the applicant or mitigation provider restores or enhances the forested buffer in Zone 1 adjacent to the sewer easement, the sewer easement is maintained in a condition that meets the vegetative requirements of the collection system permit, and diffuse flow is provided across the entire buffer width. As part of the restoration approach, all of these criteria were met. Due to bank instability and erosion there are sections of the sewer easement along the left bank of BF1 that are now within Zone 1, along with the section of the sewer easement that crosses BF1, BF2, and BF5. These 0.1 acres are not viable for buffer credit.

Enhancement occurred in the limited forested areas within the Site, found in small patches along BF1, BF3, BF4, and BF5, in accordance with the Consolidated Buffer Mitigation Rule 15A NCAC 02B .0295 (n). These areas include supplemental planting. Enhancement also occurs in BF3 per 15A NCAC 02B .0295 (n) where there are currently clumps of densely populated early-successional (two to four year) sweetgum saplings combined with invasives. The enhancement activities included thinning the sweetgums to the extent necessary, treating the invasives and planting hardwood stems to add diversity to the riparian buffer. There was also a small area along BF1 that was considered enhancement after further site evaluation conducted by RES on December 4<sup>th</sup>, 2018. After further discussions with DWR, it was agreed upon that these areas could be used for enhancement under 15A NCAC 02B .0295 (n) with supplemental planting.

Reach BF4 was classified as an ephemeral stream (per Buffer Viability) and, therefore, the restoration and enhancement of this channel do not comprise more than 25 percent of the total area of buffer mitigation per 15A NCAC 02B .0295 (o)(7). In response to comments from DWR, RES conducted vegetation transect surveys on December 4<sup>th</sup>, 2018, to ensure that this area was indeed eligible for restoration credit. It was determined that the areas that were already



enhancement should remain as enhancement, at the confluence of BF3 and BF4, and the other areas that were determined to be restoration should remain as restoration.

## ***2.4 Construction and As-Built Conditions***

Revegetation of the site included treating invasive species and planting native hardwood bare root trees. Prior to planting, RES prepped the site by spraying and ripping the easement as well as thinning sweetgum in enhancement areas. The planting of bare root trees occurred in April 2019. Deviations from the initial planting plan were due to bare root availability. A list of the planted species can be found in **Table 5a**. The other construction work included removing debris, an old culvert, and a farm pond as well as improving a crossing. This work was also completed in April 2019. The conservation easement is marked every 150-200 feet with NCDEQ Stewardship Program signs attached to either fences or t-posts. There was no easement change between the final mitigation plan and as-built, however there was a change in credits. This change was a result of an error in the buffer zones submitted with the mitigation plan. The result was an increase in 750 ft<sup>2</sup> (0.02 ac).

## **3 SCHMID CREEK SITE**

### ***3.1 Project Location and Description***

The Schmid Creek Site is located in the Randleman Lake Watershed of the Cape Fear River Basin within the 8-digit Hydrologic Unit Code (HUC) 03030003, 14-digit HUC 03030003010060 and DWR Subbasin Number 03-06-08.

The Site is located in Randolph County approximately five miles northwest of Randleman, North Carolina (**Figure 1b**). To access the Site head West on Cedar Square Road from I-74 and turn right on Davis Country Road, after about a mile turn right onto Gilbert Davis Drive, in about 0.4 miles the Site is on the left. The coordinates of the Site are 35.8726 °N and -79.8726 °W.

The conservation easement totals approximately 9.99 acres. The majority of the Site was grazed, non-forested pasture. The riparian buffer was devoid of trees or shrubs and cattle were allowed access within the existing channels

The easement is comprised of two sections, separated by one farm access crossing. The Schmid Creek Site is comprised of one stream channel, SC1, which begins downstream of a pond and then flows from northeast to the southwest eventually draining directly into Randleman Lake approximately 1,500 feet downstream of the site. SC1 is an intermittent unnamed tributary that is the primary drainage feature onsite and has a drainage area of approximately 57 acres. This channel begins downstream of an existing culvert at the eastern property boundary and runs through active pasture before passing through two more culverts on the property. SC1 is approximately 1,022 linear feet. This channel is mostly stable throughout, however, it does exhibit some areas of active erosion from cattle access. There is one linear wetland onsite that drains directly to SC1. DWR Stream Identification Forms were completed and verified by DWR during a site visit on April 12, 2017.

### ***3.2 Project Components***

This Site generates approximately 273,737.545 ft<sup>2</sup> (6.28 acres) of riparian buffer restoration credits on existing non-forested pasture. The riparian buffer mitigation credits generated will service Randleman Lake buffer impacts within the USGS 8-digit HUC 0303003 of the Cape Fear River Basin. The total mitigation credits that the RES Randleman Group A – Schmid Creek Mitigation Site generates are summarized in **Table 1b**.

### ***3.3 Riparian Restoration Approach***

Since this Site was all non-forested pasture, per 15A NCAC 02B .0295 (n), buffer restoration activities included planting throughout the entire Site. Some additional restoration activities included the removal of debris found within the Site and updating the farm crossing culvert. Specifically, the debris removal included the removal of a drain tile and culvert at the most upstream section of the Reach SC1 and removal of a culvert and earthen berm at the downstream section of Reach SC1. The crossing was improved with properly sized and embedded corrugated pipe, and embankment stabilization to facilitate future landowner access to both sides of the property. These areas were stabilized with coir matting, permanent and temporary seeding, and live stakes after culvert removal.

### ***3.4 Construction and As-Built Conditions***

Revegetation of the site included planting native hardwood bare root trees. Prior to planting, RES prepped the site by spraying and ripping the easement. The planting of bare root trees occurred in April 2019. Deviations from the initial planting plan were due to bare root availability. A list of the planted species can be found in **Table 5b**. The other construction work included removing debris (culverts, drain tile, and earthen berm) as well as improving a crossing. This work was also completed in April 2019. The conservation easement is marked every 150-200 feet with NCDEQ Stewardship Program signs attached to either fences or t-posts. There was no easement or credit change between the final mitigation plan and as-built.

## **4 SUNBEAM SITE**

### ***4.1 Project Location and Description***

The Sunbeam Site is within the Randleman Lake Watershed of the Cape Fear River Basin within the 8-digit Hydrologic Unit Code (HUC) 03030003, 14-digit HUC 03030003010060 and DWR Subbasin Number 03-06-08.

The Site is located in Randolph County approximately six miles southeast of Archdale, North Carolina. The easement is located on both sides of Interstate Highway 74. To access the Site from Interstate Highway 85 travel south on US 311 (toward Asheboro), then take exit 79 for Cedar Square Road, then turn right. Travel on Cedar Square Road for approximately a quarter of a mile,

then turn left onto SR 1009. Travel on SR 1009 for approximately one and a quarter mile, and the Site will be on the right. The coordinates are 35.8631 °N and -79.8911 °W.

The Sunbeam Site easement, approximately 18.4 acres in size, is made up of four sections, separated by two farm access crossings and a highway, and is comprised of four stream reaches: ZF1, ZF2, ZF3, and ZF4 (**Figure 1c**). ZF1 flows directly into Randleman Lake approximately 5,500 linear feet downstream of the Site. Both ZF2 and ZF3 flow into ZF1 near the downstream end of the Site. ZF1 is a perennial unnamed tributary that is the primary drainage feature onsite and has a drainage area of approximately 540 acres. This channel runs through pasture from the western property corner to the east side of the Site before entering a culvert under I-74. ZF1 is approximately 1,614 linear feet. This channel is mostly stable throughout, however, it did exhibit portions of vertical banks and erosion from cattle. There is also a ditch that discharges into ZF1. The ditch was graded out and a diffuse flow structure was built on the easement boundary to ensure that diffuse flow of runoff is maintained within the riparian buffer. ZF2 is an intermittent to perennial tributary that begins downstream of a farm pond, roughly 260 linear feet off the Site property and then flows into ZF1. This channel runs from the south to north for approximately 1,530 linear feet. ZF2 has a drainage area of approximately 55 acres. This stream channel is stable and exhibits bedrock features at the downstream end. The stream channel was bound by active cattle pasture on the right bank and agriculture hay fields on the left bank. There is currently an existing fence line along the stream channel of ZF2 to prevent cattle from crossing into the left bank riparian buffer. ZF3 is an intermittent to perennial tributary that flows from northwest to southeast across the Site property and empties into ZF1. ZF3 has a drainage area of approximately 98 acres. ZF3 exhibits multiple segments of bedrock providing grade control and streambed stability. This stable tributary lies within a valley bottom and is bound by active cattle pasture. The channel is approximately 1,224 linear feet. ZF4 is an intermittent tributary located on the Site east of Interstate 74. This channel runs from north to south for approximately 529 linear feet before draining to ZF1 downstream of the Site. The drainage area is approximately 16 acres. This stable channel is bound by a mature forest on the left bank and hay field on the right. Stream identifications were verified by the DWR site visit on March 26, 2018.

## ***4.2 Project Components***

This Site generates approximately 576,096.382 ft<sup>2</sup> (13.22 acres) of riparian buffer restoration credits on existing non-forested pasture, 3,311.971 ft<sup>2</sup> (0.08 acres) of buffer enhancement credits via cattle exclusion, and 5,592.634 ft<sup>2</sup> (0.13 acres) of riparian buffer preservation credits on subject streams. Due to the removal of a small section of the easement, a very small piece of the buffer along ZF1 now has a buffer that is less than 30 feet but greater than 20 feet and therefore only receives 75 percent of the credit in that area. The riparian buffer mitigation credits generated, service Randleman Lake buffer impacts within the USGS 8-digit HUC 03030003 of the Cape Fear River Basin. The total mitigation credits that the RES Randleman Group A – Sunbeam Site generates are summarized in **Table 1c**.

### ***4.3 Riparian Restoration, Enhancement, and Preservation Approach***

Since a majority of the Sunbeam Site was non-forested actively grazed pasture, per 15A NCAC 02B .0295 (n), buffer restoration activities occurred throughout the Site. Some additional restoration activities included minor bank stabilization and grading where needed based on compromised banks and where erosional rills and gullies were observed. Minimal grading and benching was performed to stabilize the confluence of ZF1 and ZF3, and to provide spot stabilization along ZF1. Stabilizing these areas provide functional uplift to the stream system by stopping the mass bank wasting that is currently a problem and by reducing instream sediment loads. In order to maintain diffuse flow in the riparian buffer, the ditch that drains to ZF1 was graded out and a diffuse flow structure was built along the boundary of the easement. Another restoration activity was the upgrading of the existing crossing This crossing is necessary for property access and is fenced to prevent cattle access. The crossing was constructed such that farm equipment has access and to prevent future degradation. These areas were stabilized with coir matting, permanent and temporary seeding, and live stakes after culvert removal.

Enhancement occurred in the very limited forested areas within the Site, found in small patches along ZF1, where grazing occurred adjacent to the stream in accordance with the Consolidated Buffer Mitigation Rule 15A NCAC 02B .0295 (o)(6). All livestock were removed from the easement and the fence was installed to exclude access to riparian areas and their associated streams.

Buffer preservation was performed along Reach ZF4 in accordance with the Consolidated Buffer Mitigation Rule 15A NCAC 02B .0295 (o)(5). The current land use in this area is mature hardwood in the forested area on the left bank of ZF4. Preservation activities consist of permanently protecting the buffer from cutting, clearing, filling, grading, and similar activities that would affect the functioning of the buffer through a conservation easement that has clearly visible easement markers and signs.

### ***4.4 Construction and As-Built Conditions***

Revegetation of the site included planting native hardwood bare root trees. Prior to planting, RES prepped the site by spraying and ripping the easement. The planting of bare root trees occurred in April 2019. Deviations from the initial planting plan were due to bare root availability. A list of the planted species can be found in **Table 5c**. The other construction work included bank stabilization and spot treatments on ZF1 and improving the crossing on ZF1. The crossing on ZF1 was originally planned to be a culvert crossing but due to the bedrock in the proposed area, the crossing was installed as a ford. Additionally, a rill entering the easement at the top of ZF1 was graded and planted. This work was also completed in April 2019. A Buffer Impacts Authorization was approved in January 2019 for the temporary impacts in Zone 1 from the bank stabilization work on ZF1 (**As-Built Report**). The conservation easement is marked every 150-200 feet with NCDEQ Stewardship Program signs attached to either fences or t-posts. Fences were installed in the western portion of the site where livestock is present. There was no easement or credit change between the final mitigation plan and as-built.

## 5 YEAR 5 (MY5) MONITORING PERFORMANCE

The RES Randleman Group A Year 5 Monitoring activities were completed in October 2023. All Year 5 Monitoring data is present below and in the appendices. The Site has met success criteria and is recommended for closeout. In MY5, one area at Pequod and one area at Sunbeam were found to have overlapping easements. RES had the areas surveyed and removed from crediting (**Section 1.1** and **Figure 2**).

Monitoring of the 37 permanent vegetation plots was completed during September/October 2023. Vegetation tables are in **Appendix B** and associated photos are in **Appendix C**. At Pequod, 17 of 17 plots exceed the success criteria of 260 planted stems per acre. Planted stem densities ranged from 364 to 971 planted stems per acre with a mean of 643 planted stems per acre across all plots. The average planted stem height was 7.9 feet. At Schmid Creek, 8 of 8 plots exceed the success criteria and the planted stem densities range from 405 to 1,012 with a mean of 764 stems per acre across all plots. The average planted stem height was 5.2 feet. At Sunbeam, 12 of 12 plots exceed the success criteria and the planted stem densities range from 405 to 850 with a mean of 647 stems per acre across all plots. The average planted stem height was 10.8 feet. A total of 17 tree species were documented within the plots. Volunteer species were more abundant across the sites in MY5.

Visual assessment of vegetation outside of the monitoring plots indicates that the herbaceous vegetation is becoming well established throughout all three Sites. Bradford pear invasive areas at Pequod were treated in April 2023. Chinese privet and Bradford pear invasive areas at Sunbeam were treated in July 2023. Recently observed areas of invasive species are illustrated on the MY5 CCPV Figures and will be treated in early 2024 before monitoring closeout.

Agricultural encroachment was observed at Pequod in June 2022. The area was planted in December 2022, and no further encroachment was identified. Also, driving paths to the adjacent sewer easement were observed within the conservation easement during MY4. RES met with the City of Archdale onsite and cleared two paths outside of the conservation easement that allows access the sewer easement. Additional easement signage and horse tape was installed to prevent future encroachment in these areas. No additional encroachment occurred in MY5.

The upgraded crossing on Pequod is stable. The culvert removals and crossing upgrade on Schmid Creek are stable. Crossing improvement and brush-toe bank stabilization at Sunbeam are stable. The grading work that was completed on Reach ZF1 in 2019 is also stable.

## **6 REFERENCES**

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.

Resource Environmental Solutions, LLC (2019). Randleman Group A – As-Built Baseline Monitoring Report.

Resource Environmental Solutions, LLC (2019). Randleman Group A – 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 1a. Pequod Mitigation Site Buffer Project Areas and Assets

RIPARIAN BUFFER (15A NCAC 02B.0295)													If Converted to Nutrient Offset	
Location	Jurisdictional Streams	Restoration Type	Reach ID/Component	Buffer Width (ft)	Creditable Area (acreage)	Creditable Area (sf)*	Initial Credit Ratio (x:1)	% Full Credit	Final Credit Ratio (x:1)	Riparian Buffer Credits (BMU)	Riparian Buffer Credits (acreage)	Convertible to Nutrient Offset (Yes or No)	Nutrient Offset: N (lbs)	Nutrient Offset: P (lbs)
Rural	Subject	Restoration	BF1	20-29	0.00	0	1	75%	1.33333	0.000	0.00	No	0.000	0.000
				30-100	3.29	143,270		100%	1.00000	143,269.732	3.29	No	0.000	0.000
				101-200	0.22	9,640		33%	3.00000	3,181.194	0.07	No	0.000	0.000
		20-29		0.00	0	75%		2.66667	0.000	0.00	No	0.000	0.000	
		30-100		0.05	2,032	100%		2.00000	1,016.084	0.02	No	0.000	0.000	
		101-200		0.00	0	33%		6.00000	0.000	0.00	No	0.000	0.000	
Rural	Subject	Restoration	BF2	20-29	0.00	0	1	75%	1.33333	0.000	0.00	No	0.000	0.000
				30-100	5.49	239,201		100%	1.00000	239,200.774	5.49	No	0.000	0.000
				101-200	0.18	7,966		33%	3.00000	2,628.839	0.06	No	0.000	0.000
		20-29		0.00	0	75%		2.66667	0.000	0.00	No	0.000	0.000	
		30-100		0.00	0	100%		2.00000	0.000	0.00	No	0.000	0.000	
		101-200		0.00	0	33%		6.00000	0.000	0.00	No	0.000	0.000	
Rural	Subject	Restoration	BF3	20-29	0.00	0	1	75%	1.33333	0.000	0.00	No	0.000	0.000
				30-100	4.88	212,393		100%	1.00000	212,392.571	4.88	No	0.000	0.000
				101-200	0.99	43,258		33%	3.00000	14,275.279	0.33	No	0.000	0.000
		20-29		0.00	0	75%		2.66667	0.000	0.00	No	0.000	0.000	
		30-100		0.64	27,860	100%		2.00000	13,930.039	0.32	No	0.000	0.000	
		101-200		0.00	0	33%		6.00000	0.000	0.00	No	0.000	0.000	
Rural	Subject	Restoration	BF5	20-29	0.00	0	1	75%	1.33333	0.000	0.00	No	0.000	0.000
				30-100	1.05	45,860		100%	1.00000	45,860.309	1.05	No	0.000	0.000
				101-200	0.03	1,183		33%	3.00000	390.386	0.01	No	0.000	0.000
		20-29		0.00	0	75%		2.66667	0.000	0.00	No	0.000	0.000	
		30-100		0.08	3,320	100%		2.00000	1,659.96	0.04	No	0.000	0.000	
		101-200		0.00	0	33%		6.00000	0.000	0.00	No	0.000	0.000	
Rural	Subject	Restoration	BF6	20-29	0.00	0	1	75%	1.33333	0.000	0.00	No	0.000	0.000
				30-100	1.85	80,603		100%	1.00000	80,602.565	1.85	No	0.000	0.000
				101-200	0.24	10,290		33%	3.00000	3,395.723	0.08	No	0.000	0.000
		20-29		0.00	0	75%		2.66667	0.000	0.00	No	0.000	0.000	
		30-100		0.00	0	100%		2.00000	0.000	0.00	No	0.000	0.000	
		101-200		0.00	0	33%		6.00000	0.000	0.00	No	0.000	0.000	
SUBTOTALS					18.98	826,876				761,803.459	17.49	0.000	0.000	

ELIGIBLE PRESERVATION AREA											
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)	Riparian Buffer Credits (acreage)	
Rural	Subject	Preservation		20-29			10	75%	13.33333	0.000	0.00
				30-100				100%	10.00000	0.000	0.00
				101-200				33%	30.00000	0.000	0.00
				20-29				75%	6.66667	0.000	0.00
				30-100				100%	5.00000	0.000	0.00
				101-200				33%	15.00000	0.000	0.00
SUBTOTALS					0			0.000	0.000		

\*Area eligible for preservation may be no more than 25% of total area, where total area is back-calculated with the equation R+E/0.75.

\*All buffers eligible for credit must be at minimum 20' wide

\*When preservation areas exceed the total eligible preservation area, select the areas with the best credit ratios as the creditable areas.

ELIGIBLE EPHEMERAL AREA*											
Location	Jurisdictional Streams	Restoration Type	Reach ID/Component	Buffer Width (ft)	Creditable Area (acreage)*	Creditable Area (sf)*	Initial Credit Ratio (x:1)	% Full Credit	Final Credit Ratio (x:1)	Riparian Buffer Credits (BMU)	Riparian Buffer Credits (acreage)
Rural	Ephemeral	Restoration	BF4	20-29	0.00	0	1	75%	1.33333	0.000	0.00
				30-100	0.87	37,838		100%	1.00000	37,838.047	0.87
				101-200	0.37	16,278		33%	3.00000	5,371.771	0.12
		20-29		0.00	0	75%		2.66667	0.000	0.00	
		30-100		0.08	3,348	100%		2.00000	1,674.124	0.04	
		101-200		0.00	0	33%		6.00000	0.000	0.00	
SUBTOTALS					1.32	57,464				44,883.943	1.03
TOTALS					20.30	884,340				806,687.401	18.52

MYS riparian buffer credit deductions on Reach BF1: Restoration 30-100 (2,635.199 BMU), Restoration 101-200 (196.913 BMU)

MYS riparian buffer credit deductions on Reach BF5: Restoration 30-100 (2,235.132 BMU), Restoration 101-200 (219.974 BMU), Enhancement 30-100 (21.148 BMU)

\* The area of the mitigation site on ephemeral channels shall comprise no more than 25 percent of the total area of buffer mitigation. Total area is back-calculated with the equation R+E/0.75.

Regulatory direction for Riparian Buffer in this table follows NCAC rule 15A NCAC 02B .0295, effective November 1, 2015.

Regulatory direction for Nutrient Offset in this table follows Nutrient Offsets Payments Rule 15A NCAC 02B. 0240, amended effective September 1, 2010 and

DWR – 1998. Methodology and Calculations for determining Nutrient Reductions associated with the Riparian Buffer Establishment.

N.O. calculation based on effectiveness in 30 years, with 146.40 lb/ac P; and 2,273.02 lb/ac N. The N credit ratio used is 19.16325 sf per pound. The P credit ratio used is 297.54098 sf per pound.



**Table 2a. Project Activity and Reporting History  
Pequod Site**

**Elapsed Time Since grading complete: NA**  
**Elapsed Time Since planting complete: 4 years 8 months**  
**Number of reporting Years<sup>1</sup>: 5**

<b>Activity or Deliverable</b>	<b>Data Collection Complete</b>	<b>Completion or Delivery</b>
Restoration Plan	NA	Mar-19
Final Design – Construction Plans	NA	NA
Stream Construction	NA	NA
Site Planting	NA	Apr-19
As-built (Year 0 Monitoring – baseline)	Apr-19	May-19
Year 1 Monitoring	Oct-19	Nov-19
Invasive Species Treatment	NA	Aug-20
Year 2 Monitoring	Oct-20	Nov-20
Year 3 Monitoring	Oct-21	Oct-21
Invasive Species Treatment	NA	Nov-21
Year 4 Monitoring	Oct-22	Oct-22
Invasive Species Treatment	NA	Apr-23
Year 5 Monitoring	23-Oct	Dec-23

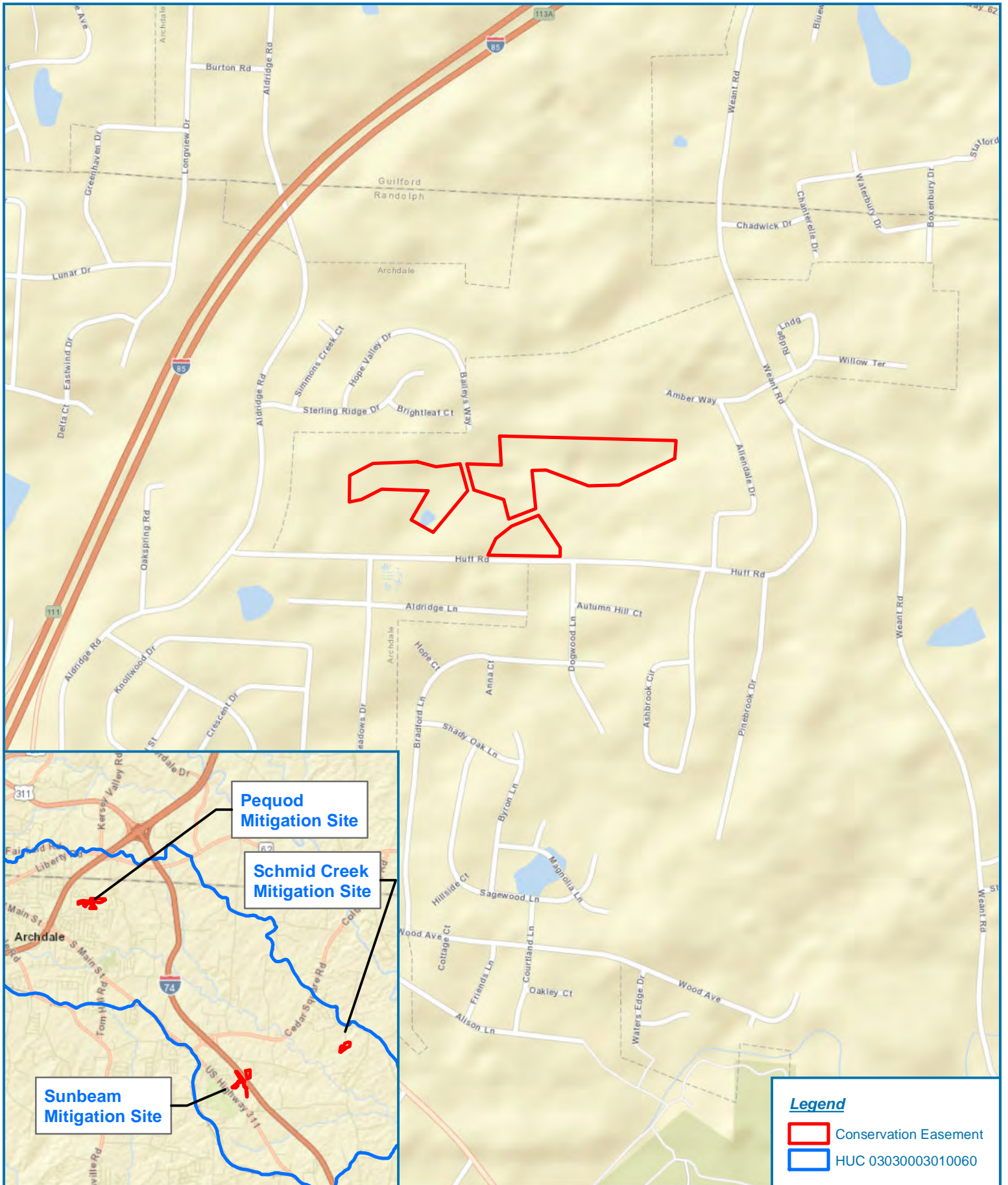
<sup>1</sup> = The number of reports or data points produced excluding the baseline

**Table 3a. Project Contacts Table  
Pequod Site**

<b>Planting Contractor</b>	H&J Forestry
Planting contractor POC	Matt Hitch
<b>Nursery Stock Suppliers</b>	Claridge Nursery 1-(888) 628-7337
<b>Monitoring Performers</b>	RES / 3600 Glenwood Ave, Suite 100, Raleigh, NC 27612
Vegetation Monitoring POC	Ryan Medic (919) 741-6268

**Table 4a. Project Background Information**

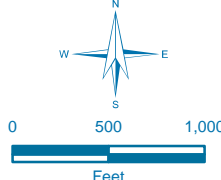
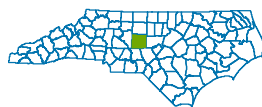
Project Name	Pequod		
County	Randolph		
Project Area (acres)	22.14		
Project Coordinates (latitude and longitude)	Latitude: 35.9107 N Longitude: -79.9381 W		
Planted Acreage (Acres of Woody Stems Planted)	19.6		
<b>Project Watershed Summary Information</b>			
Physiographic Province	Southern Outer Piedmont		
River Basin	Cape Fear		
USGS Hydrologic Unit 8-digit	03030003	USGS Hydrologic Unit 14-digit	03030003010060
DWR Sub-basin	03-06-08		
Project Drainage Area (Acres)	2,295		
CGIA Land Use Classification	Forest; Agricultural; Residential		



**Legend**

- Conservation Easement
- HUC 03030003010060

Figure 1a - Site Location Map



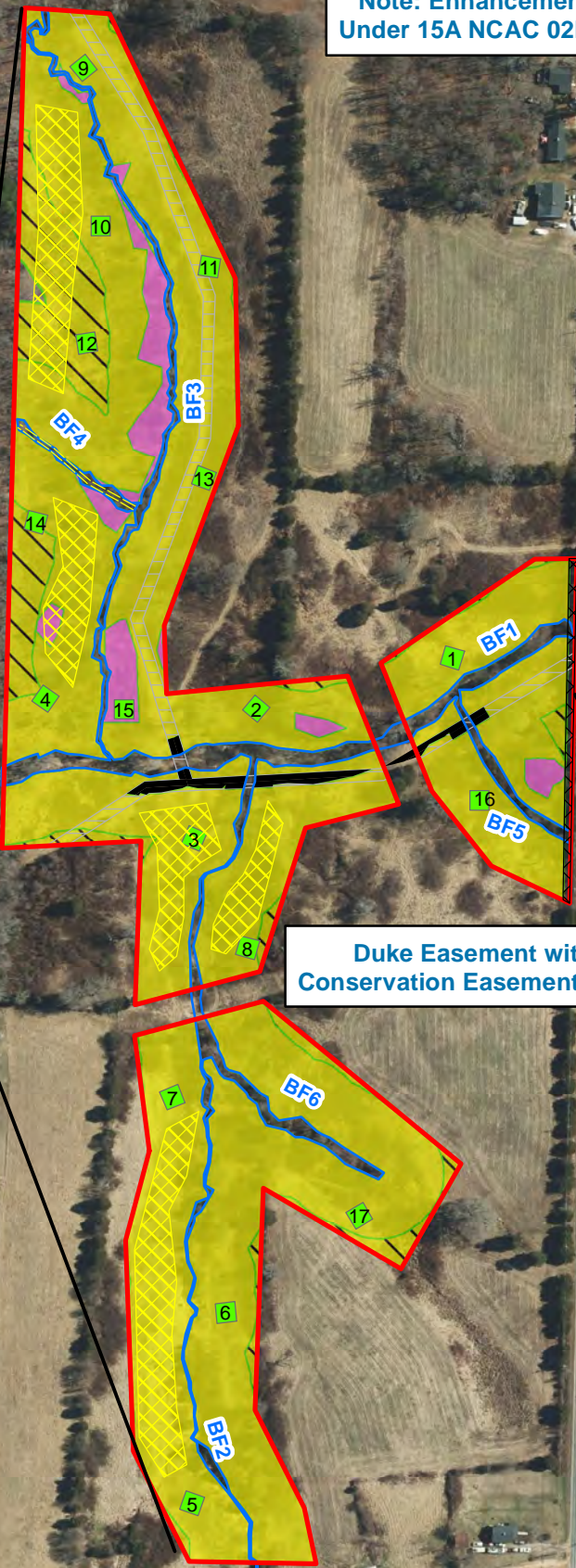
**RES Randleman Group A -  
Pequod Mitigation Site**

Randolph County, North Carolina

Date: 5/3/2019
Drawn by: RTM
Checked by: BPB
1 inch = 1,000 feet



Note: Enhancement Areas Under 15A NCAC 02B .0295(n)



Invasive Treatment (To be completed in early 2024)

Duke Easement within Conservation Easement (.16 ac)

**Legend**

- Invasive Area MY5
- Conservation Easement
- Duke Easement (Within CE)
- Top of Bank
- Vegetation Plot (>260 stems/acre)
- Sewer Easement (Creditable)
- Sewer Easement (Non-Creditable)
- Ephemeral Channel

**Buffer Mitigation**

- Restoration, 0-100
- Restoration, 101-200
- Enhancement, 0-100

Figure 2a. Current Conditions Plan View

RES Randleman Group A - Pequod Mitigation Site (MY5 2023)

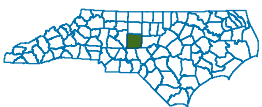
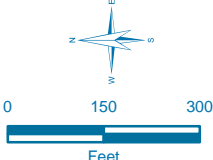
Randolph County, North Carolina

Date: 1/4/2024

Drawn by: HKH

Checked by: BPB

1 inch = 300 feet



Document Path: R:\Randleman\10013\_Randleman\_Group\_A\10013\_Pequod\_Mitigation\_Site\10013\_Pequod\_Mitigation\_Site\_CCDP\_MY5\_2023.mxd

**Table 1b. Schmid Creek Mitigation Site Buffer Project Areas and Assets**

RIPARIAN BUFFER (15A NCAC 02B.0295)													If Converted to Nutrient Offset	
Location	Jurisdictional Streams	Restoration Type	Reach ID/Component	Buffer Width (ft)	Creditable Area (acres)*	Creditable Area (sf)*	Initial Credit Ratio (x:1)	% Full Credit	Final Credit Ratio (x:1)	Riparian Buffer Credits (BMU)	Riparian Buffer Credits (acres)	Convertible to Nutrient Offset (Yes or No)	Nutrient Offset: N (lbs)	Nutrient Offset: P (lbs)
Rural	Subject	Restoration	SC1	20-29	0.00	0	1	75%	1.33333	0.000	0.00	No	0.000	0.000
				30-100	4.80	209,182		100%	1.00000	209,182.414	4.80	No	0.000	0.000
				101-200	4.49	195,622		33%	3.00000	64,555.131	1.48	No	0.000	0.000
	Enhancement	20-29	0.00	0	2	75%	2.66667	0.000	0.00	No	0.000	0.000		
		30-100	0.00	0		100%	2.00000	0.000	0.00	No	0.000	0.000		
		101-200	0.00	0		33%	6.00000	0.000	0.00	No	0.000	0.000		
<b>SUBTOTALS</b>					<b>9.29</b>	<b>404,804</b>				<b>273,737.545</b>	<b>6.28</b>		<b>0.000</b>	<b>0.000</b>

ELIGIBLE PRESERVATION AREA						134,935									
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)	Riparian Buffer Credits (acres)					
Rural	Subject	Preservation		20-29	0	10	75%	13.33333	0.000	0.00					
				30-100	0		100%	10.00000	0.000	0.00					
				101-200	0		33%	30.00000	0.000	0.00					
	Nonsubject			20-29	0	5	75%	6.66667	0.000	0.00					
				30-100	0		100%	5.00000	0.000	0.00					
				101-200	0		33%	15.00000	0.000	0.00					
Urban	Subject or Nonsubject		20-29	0	3	75%	4.00000	0.000	0.00						
			30-100	0		100%	3.00000	0.000	0.00						
			101-200	0		33%	9.00000	0.000	0.00						
<b>SUBTOTALS</b>					<b>0</b>				<b>0.000</b>	<b>0.00</b>					
<b>TOTALS</b>					<b>9.29</b>	<b>404,804</b>				<b>273,737.545</b>	<b>6.28</b>				

\*Area eligible for preservation may be no more than 25% of total area, where total area is back-calculated with the equation R+E/0.75.

\*All buffers eligible for credit must be at minimum 20' wide

\*When preservation areas exceed the total eligible preservation area, select the areas with the best credit ratios as the creditable areas.

FILLIBLE CELLS, leave blank if N/A

Regulatory direction for Riparian Buffer in this table follows NCAC rule 15A NCAC 02B .0295, effective November 1, 2015.

Regulatory direction for Nutrient Offset in this table follows Nutrient Offsets Payments Rule 15A NCAC 02B. 0240, amended effective September 1, 2010 and

DWR – 1998. Methodology and Calculations for determining Nutrient Reductions associated with Riparian Buffer Establishment.

N.O. calculation based on effectiveness in 30 years, with 146.40 lb/ac P; and 2,273.02 lb/ac N. The N credit ratio used is 19.16325 sf per pound. The P credit ratio used is 297.54098 sf per pound.

**Table 2b. Project Activity and Reporting History  
Schmid Creek Site**

**Elapsed Time Since grading complete: NA**  
**Elapsed Time Since planting complete: 4 year 8 months**  
**Number of reporting Years<sup>1</sup>: 5**

<b>Activity or Deliverable</b>	<b>Data Collection Complete</b>	<b>Completion or Delivery</b>
Restoration Plan	NA	Mar-19
Final Design – Construction Plans	NA	NA
Stream Construction	NA	NA
Site Planting	NA	Apr-19
As-built (Year 0 Monitoring – baseline)	Apr-19	May-19
Year 1 Monitoring	Oct-19	Jan-20
Livestake Planting	NA	Mar-20
Year 2 Monitoring	Oct-20	Oct-20
Invasive Species Treatment	NA	Oct-21
Year 3 Monitoring	Oct-21	Oct-21
Year 4 Monitoring	Sep-22	Oct-22
Year 5 Monitoring	23-Sep	Dec-23

<sup>1</sup> = The number of reports or data points produced excluding the baseline

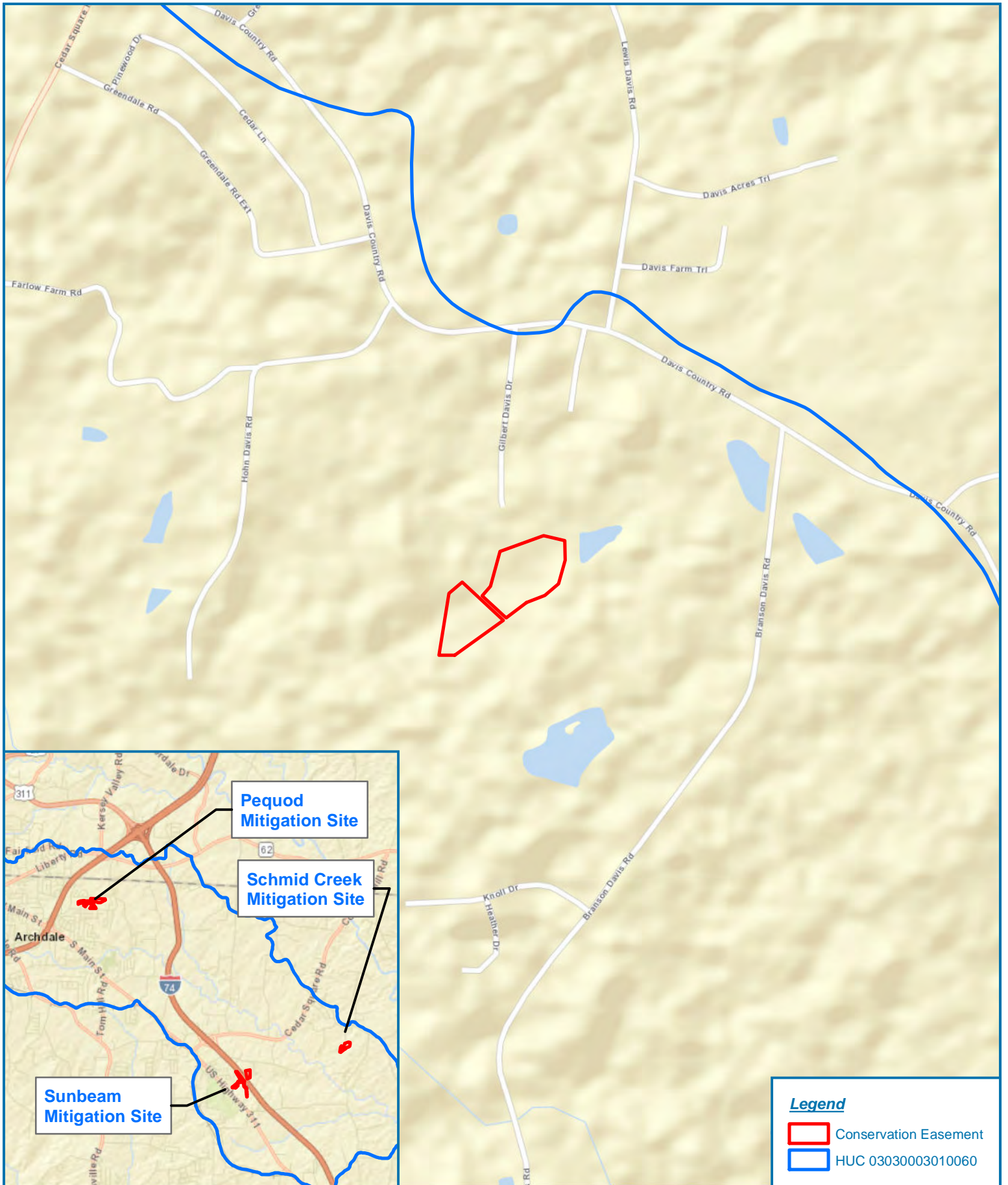
**Table 3b. Project Contacts Table  
Schmid Creek Mitigation Site**

<b>Planting Contractor</b>	H&J Forestry
Planting contractor POC	Matt Hitch
<b>Nursery Stock Suppliers</b>	Arborgen / 2011 Broadbank Court, Ridgeville, SC 29472
<b>Monitoring Performers</b>	RES / 3600 Glenwood Ave, Suite 100, Raleigh, NC 27612
Vegetation Monitoring POC	Ryan Medic (919) 741-6268



**Table 4b. Project Background Information**

Project Name	Schmid Creek		
County	Randolph		
Project Area (acres)	9.99		
Project Coordinates (latitude and longitude)	Latitude: 35.8726 N Longitude: -79.8726 W		
Planted Acreage (Acres of Woody Stems Planted)	9.3		
<b>Project Watershed Summary Information</b>			
Physiographic Province	Southern Outer Piedmont		
River Basin	Cape Fear		
USGS Hydrologic Unit 8-digit	03030003	USGS Hydrologic Unit 14-digit	03030003010060
DWR Sub-basin	03-06-08		
Project Drainage Area (Acres)	57		
CGIA Land Use Classification	Forest; Agricultural; Residential		



**Legend**

- Conservation Easement
- HUC 03030003010060

Figure 1b - Site Location Map

**RES Randleman Group A - Schmid Creek Mitigation Site**

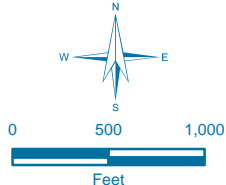
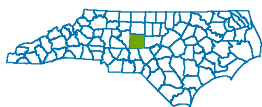
Randolph County, North Carolina

Date: 5/3/2019

Drawn by: RTM

Checked by: BPB

1 inch = 1,000 feet

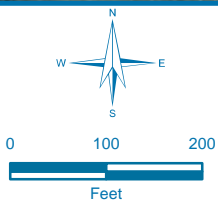
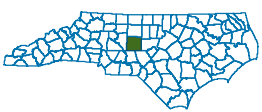


**Legend**

-  Conservation Easement
-  Vegetation Plot (>260 stems/acre)
- Buffer Mitigation
  -  Restoration, 0-100
  -  Restoration, 101-200



Document Path: R:\ResGroup\Projects\NC\00013\_Randleman\_Group\_A\Montgomery\1705\summit\Figure 2b - CCPY MY5 - Schmidt.dwg



**Figure 2b - Current Conditions Plan View**

**RES Randleman Group A -  
Schmid Creek Mitigation Site (MY5 2023)**

**Randolph County, North Carolina**

Date: 12/13/2023

Drawn by: HKH

Checked by: RTM

1 inch = 200 feet



Table 1c. Sunbeam Mitigation Site Buffer Project Areas and Assets

RIPARIAN BUFFER (15A NCAC 02B.0295)													If Converted to Nutrient Offset		
Location	Jurisdictional Streams	Restoration Type	Reach ID / Component	Buffer Width (ft)	Creditable Area (acreage)	Creditable Area (sf)*	Initial Credit Ratio (x:1)	% Full Credit	Final Credit Ratio (x:1)	Riparian Buffer Credits (BMU)	Riparian Buffer Credits (acreage)	Convertible to Nutrient Offset (Yes or No)	Nutrient Offset: N (lbs)	Nutrient Offset: P (lbs)	
Rural	Subject	Restoration	ZF1	20-29	0.06	2,527	1	75%	1.33333	1,894.930	0.04	No	0.000	0.000	
				30-100	4.16	181,155		100%	1.00000	181,155.058	4.16	No	0.000	0.000	
				101-200	0.24	10,467		33%	3.00000	3,453.974	0.08	No	0.000	0.000	
		Enhancement		20-29	0.00	0	2	75%	2.66667	0.000	0.00	No	0.000	0.000	
				30-100	0.15	6,624		100%	2.00000	3,311.971	0.08	No	0.000	0.000	
				101-200	0.00	0		33%	6.00000	0.000	0.00	No	0.000	0.000	
		Restoration		ZF2	20-29	0.00	0	1	75%	1.33333	0.000	0.00	No	0.000	0.000
					30-100	2.20	95,766		100%	1.00000	95,766.014	2.20	No	0.000	0.000
					101-200	0.00	0		33%	3.00000	0.000	0.00	No	0.000	0.000
			ZF3	20-29	0.00	0	75%		1.33333	0.000	0.00	No	0.000	0.000	
				30-100	4.14	180,250	100%		1.00000	180,250.307	4.14	No	0.000	0.000	
				101-200	0.20	8,554	33%		3.00000	2,822.951	0.06	No	0.000	0.000	
				ZF4	20-29	0.00	0		75%	1.33333	0.000	0.00	No	0.000	0.000
		30-100	1.93		83,983	100%	1.00000	83,983.325	1.93	No	0.000	0.000			
		101-200	1.86	81,121	33%	3.00000	26,769.823	0.61	No	0.000	0.000				
		<b>SUBTOTALS</b>					<b>14.93</b>	<b>650,447</b>				<b>579,408.353</b>	<b>13.30</b>		<b>0.000</b>

**ELIGIBLE PRESERVATION AREA      4.98      216,816**

Location	Jurisdictional Streams	Restoration Type	Reach ID / Component	Buffer Width (ft)	Creditable Area (acreage)	Creditable Area (sf)*	Initial Credit Ratio (x:1)	% Full Credit	Final Credit Ratio (x:1)	Riparian Buffer Credits (BMU)	Riparian Buffer Credits (acreage)
Rural	Subject	Preservation	ZF4	20-29	0.00	0	10	75%	13.33333	0.000	0.00
				30-100	1.01	44,063		100%	10.00000	4406.342	0.10
				101-200	0.83	35,948		33%	30.00000	1186.293	0.03
<b>SUBTOTALS</b>					<b>1.84</b>	<b>80,012</b>				<b>5,592.634</b>	<b>0.13</b>
<b>TOTALS</b>					<b>16.77</b>	<b>730,459</b>				<b>585,000.988</b>	<b>13.43</b>

MY5 riparian buffer credit deductions on Reach ZF3: Restoration 30-100 (981.539 BMU), Restoration 101-200 (20.512 BMU)

\*Area eligible for preservation may be no more than 25% of total area, where total area is back-calculated with the equation R+E/0.75.

\*All buffers eligible for credit must be at minimum 20' wide

\*When preservation areas exceed the total eligible preservation area, select the areas with the best credit ratios as the creditable areas.

Regulatory direction for Riparian Buffer in this table follows NCAC rule 15A NCAC 02B .0295, effective November 1, 2015.

Regulatory direction for Nutrient Offset in this table follows Nutrient Offsets Payments Rule 15A NCAC 02B. 0240, amended effective September 1, 2010 and

DWR – 1998. Methodology and Calculations for determining Nutrient Reductions associated with Riparian Buffer Establishment.

N.O. calculation based on effectiveness in 30 years, with 146.40 lb/ac P; and 2,273.02 lb/ac N. The N credit ratio used is 19.16325 sf per pound. The P credit ratio used is 297.54098 sf per pound.

**Table 2c. Project Activity and Reporting History  
Sunbeam Site**

**Elapsed Time Since grading complete: NA**  
**Elapsed Time Since planting complete: 4 years 8 months**  
**Number of reporting Years<sup>1</sup>: 5**

<b>Activity or Deliverable</b>	<b>Data Collection Complete</b>	<b>Completion or Delivery</b>
Restoration Plan	NA	Mar-19
Final Design – Construction Plans	NA	NA
Stream Construction	NA	NA
Site Planting	NA	Apr-19
As-built (Year 0 Monitoring – baseline)	Apr-19	May-19
Year 1 Monitoring	Oct-19	Jan-20
Invasive Species Treatment	NA	Aug-20
Year 2 Monitoring	Oct-20	Nov-20
Livestake Planting	NA	Mar-21
Year 3 Monitoring	Oct-21	Oct-21
Year 4 Monitoring	Sep-22	Oct-22
Invasive Species Treatment	NA	Jul-23
Year 5 Monitoring	Oct-23	Dec-23

<sup>1</sup> = The number of reports or data points produced excluding the baseline

**Table 3c. Project Contacts Table  
Sunbeam Site**

<b>Planting Contractor</b>	H&J Forestry
Planting contractor POC	Matt Hitch
<b>Nursery Stock Suppliers</b>	Arborgen / 2011 Broadbank Court, Ridgeville, SC 29472
<b>Monitoring Performers</b>	RES / 3600 Glenwood Ave, Suite 100, Raleigh, NC 27612
Vegetation Monitoring POC	Ryan Medic (919) 741-6268

**Table 4c. Project Background Information**

Project Name	Sunbeam
County	Randolph
Project Area (acres)	18.46
Project Coordinates (latitude and longitude)	Latitude: 35.8726 N Longitude: -79.8726 W
Planted Acreage (Acres of Woody Stems Planted)	14.8

**Project Watershed Summary Information**

Physiographic Province	Southern Outer Piedmont		
River Basin	Cape Fear		
USGS Hydrologic Unit 8-digit	03030003	USGS Hydrologic Unit 14-digit	03030003010060
DWR Sub-basin	03-06-08		
Project Drainage Area (Acres)	540		
CGIA Land Use Classification	Forest; Agricultural; Residential		

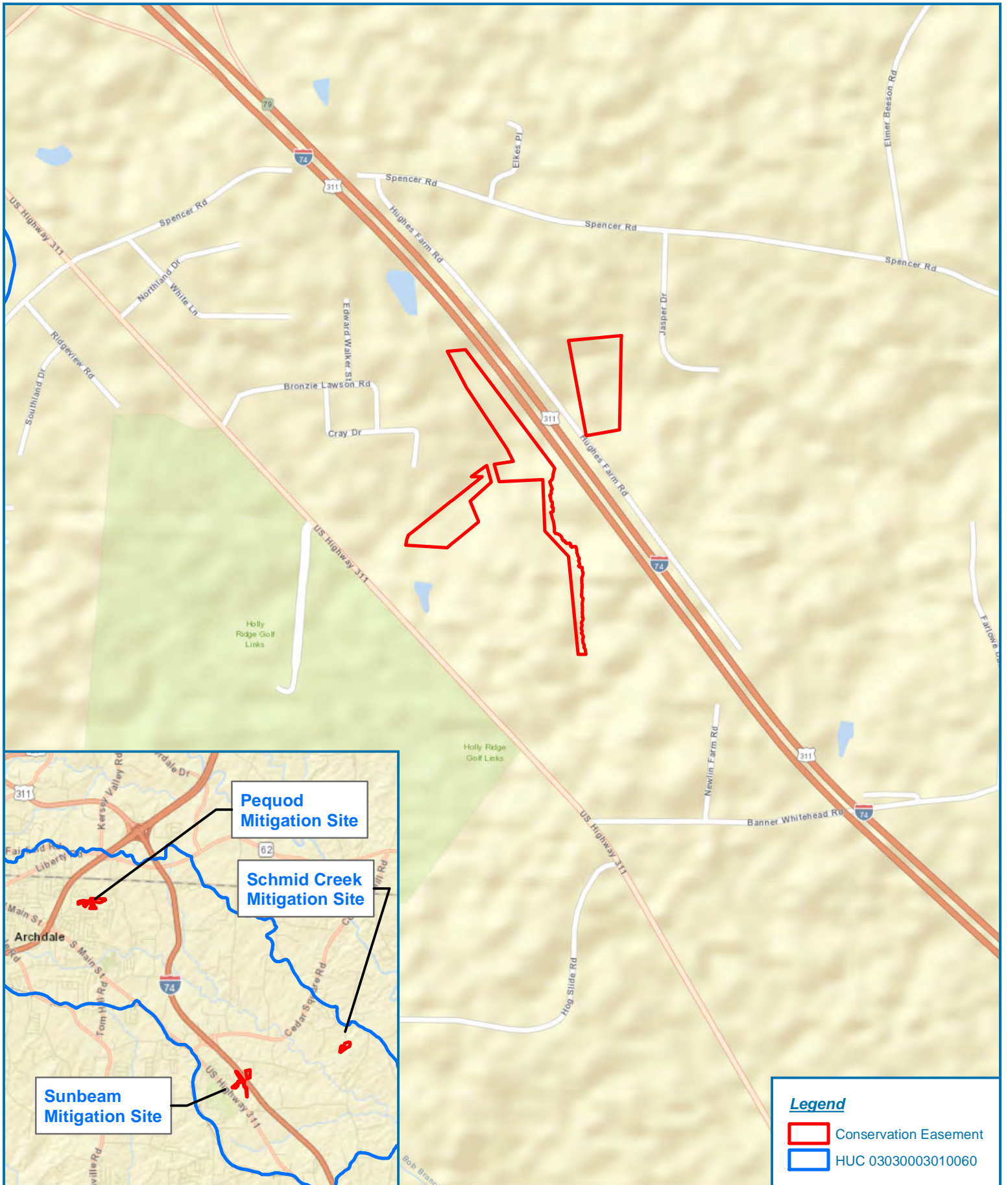


Figure 1c - Site Location Map

**RES Randleman Group A - Sunbeam Mitigation Site**

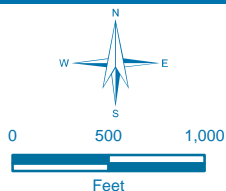
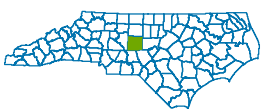
Randolph County, North Carolina

Date: 5/3/2019

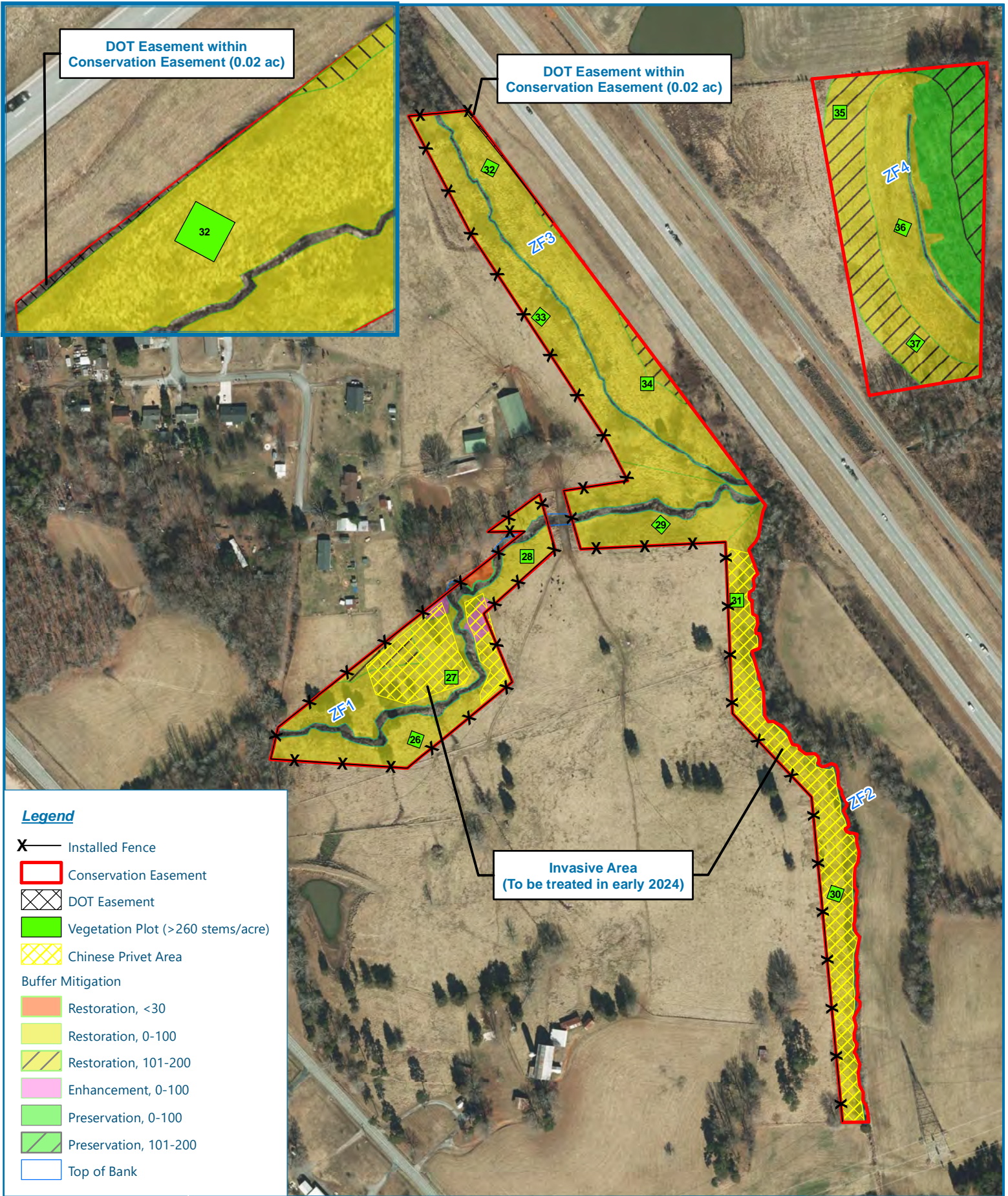
Drawn by: RTM

Checked by: BPB

1 inch = 1,000 feet







**Legend**

- Installed Fence
- Conservation Easement
- DOT Easement
- Vegetation Plot (>260 stems/acre)
- Chinese Privet Area
- Buffer Mitigation**
- Restoration, <30
- Restoration, 0-100
- Restoration, 101-200
- Enhancement, 0-100
- Preservation, 0-100
- Preservation, 101-200
- Top of Bank

**Figure 2c - Current Conditions Plan View**

**RES Randleman Group A - Sunbeam Mitigation Site (MY5 2023)**

**Randolph County, North Carolina**

Date: 12/15/2023

Drawn by: HKH

Checked by: RTM

1 inch = 300 feet



# **Appendix B**

## **Vegetation Assessment Data**

**Table 5a. Pequod Planted Species Summary**

Common Name	Scientific Name	Total Stems Planted
Sycamore	<i>Platanus occidentalis</i>	3,800
Water Oak	<i>Quercus nigra</i>	3,800
Tuliptree	<i>Liriodendron tulipifera</i>	2,400
Willow Oak	<i>Quercus phellos</i>	2,000
White Oak	<i>Quercus alba</i>	1,800
Northern Red Oak	<i>Quercus rubra</i>	1,800
River Birch	<i>Betula nigra</i>	1,400
Green Ash	<i>Fraxinus pennsylvanica</i>	1,200
<b>Total</b>		<b>18,200</b>

**Table 6a. Pequod Vegetation Plot Mitigation Success Summary (MY5)**

Plot #	Planted Stems/Acre	Volunteer Stems/Acre	Total Stems/Acre	Success Criteria Met?	Average Planted Stem Height (ft)
1	567	40	607	Yes	11.3
2	728	567	1295	Yes	8.7
3	567	647	1214	Yes	10.3
4	688	769	1457	Yes	10.9
5	526	0	526	Yes	6.8
6	971	0	971	Yes	10.5
7	647	405	1052	Yes	7.1
8	607	243	850	Yes	7.2
9	890	243	1133	Yes	7.3
10	526	121	647	Yes	5.5
11	364	283	647	Yes	8.1
12	526	850	1376	Yes	8.1
13	607	445	1052	Yes	5.7
14	809	0	809	Yes	6.7
15	567	647	1214	Yes	7.5
16	567	567	1133	Yes	6.3
17	769	40	809	Yes	5.5
<b>Project Avg</b>	<b>643</b>	<b>345</b>	<b>988</b>	<b>Yes</b>	<b>7.9</b>



**Table 5b. Schmid Creek Planted Species Summary**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Total Stems Planted</b>
Water Oak	<i>Quercus nigra</i>	2,700
Sycamore	<i>Platanus occidentalis</i>	2,800
Tuliptree	<i>Liriodendron tulipifera</i>	1,600
Willow Oak	<i>Quercus phellos</i>	1,500
White Oak	<i>Quercus alba</i>	1,500
Northern Red Oak	<i>Quercus rubra</i>	1,200
River Birch	<i>Betula nigra</i>	1,000
Green Ash	<i>Fraxinus pennsylvanica</i>	800
<b>Total</b>		<b>13,100</b>

**Table 6b. Schmid Creek Vegetation Plot Mitigation Success Summary (MY5)**

<b>Plot #</b>	<b>Planted Stems/Acre</b>	<b>Volunteer Stems/Acre</b>	<b>Total Stems/Acre</b>	<b>Success Criteria Met?</b>	<b>Average Planted Stem Height (ft)</b>
<b>18</b>	648	0	648	Yes	3.9
<b>19</b>	809	0	809	Yes	6.4
<b>20</b>	728	203	931	Yes	5.4
<b>21</b>	809	0	809	Yes	5.8
<b>22</b>	405	323	728	Yes	5.5
<b>23</b>	1012	202	1214	Yes	4.6
<b>24</b>	850	121	890	Yes	5.6
<b>25</b>	850	2064	2914	Yes	4.3
<b>Project Avg</b>	<b>764</b>	<b>364</b>	<b>1118</b>	<b>Yes</b>	<b>5.2</b>

**Table 7b. Schmid Creek Stem Count Total and Planted by Plot Species (MY5)**

Schmid			Current Plot Data (MY5 2023)																		Annual Means																										
Scientific Name	Common Name	Species Type	100046-01-0018			100046-01-0019			100046-01-0020			100046-01-0021			100046-01-0022			100046-01-0023			100046-01-0024			100046-01-0025			MY5 (2023)			MY4 (2022)			MY3 (2021)			MY2 (2020)			MY1 (2019)			MY0 (2019)					
			Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T	Pno	LS	T			
Betula nigra	River Birch, Red Birch	Tree				1	1	1	4	4	4	6	6	6				2	2	2										13	13	13	13	13	13	15	15	15	15	15	15	16	16	16	29	29	29
Cephalanthus occidentalis	Buttonbush	Shrub Tree															5												5																		
Diospyros virginiana	American Persimmon	Tree									1																		1																		
Fraxinus pennsylvanica	Green Ash, Red Ash	Tree				4	4	4			4	2	2	2	1	1	2	2	2	7	3	3	3	2	2	52	14	14	74	14	14	71	14	14	81	13	13	44	14	14	24	14	14	14			
Liquidambar styraciflua	Sweet Gum, Red Gum	Tree															2												2																		
Liriodendron tulipifera		Tree	2	2	2	1	1	1																1	1	1	4	4	4	7	7	7	8	8	8	9	9	9	24	24	24	36	36	36			
Platanus occidentalis	Sycamore, Plane-tree	Tree	4	4	4	3	3	3	7	7	7	1	1	1	2	2	2	6	6	6	4	4	4	1	1	1	28	28	28	27	27	27	28	28	28	30	30	30	30	30	30	30	30	30	45	45	45
Quercus	Oak	Shrub Tree																																								38	38	38			
Quercus alba	White Oak	Tree	5	5	5	4	4	4				5	5	5				3	3	3				3	3	3	20	20	20	20	20	21	20	20	20	20	20	20	23	23	23	2	2	2			
Quercus nigra	Water Oak, Paddle Oak	Tree				1	1	1	1	1	1				2	2	2										4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	8	8	8
Quercus phellos	Willow Oak	Tree	2	2	2	2	2	2	4	4	4	4	4	4	5	5	5	11	11	11	9	9	9	4	4	4	41	41	41	41	41	41	41	41	41	41	41	41	44	44	44	29	29	29			
Quercus rubra		Tree	3	3	3	4	4	4	2	2	2	2	2	2				1	1	1	5	5	5	10	10	11	27	27	28	27	27	27	25	25	25	26	26	26	26	26	26	26	26	26	12	12	12
Ulmus alata	Winged Elm	Tree																					1						1																		
<b>Stem count</b>			16	16	16	20	20	20	18	18	23	20	20	20	10	10	18	25	25	30	21	21	22	21	21	72	151	151	221	153	153	211	155	155	222	158	158	189	181	181	191	213	213	213			
<b>size (ares)</b>			1			1			1			1			1			1			1			1			8			8			8			8			8			8					
<b>size (ACRES)</b>			0.02			0.02			0.02			0.02			0.02			0.02			0.02			0.02			0.20			0.20			0.20			0.20			0.20			0.20					
<b>Species count</b>			5	5	5	8	8	8	5	5	7	6	6	6	4	4	6	6	6	6	4	4	5	6	6	6	8	8	12	8	8	8	8	8	8	8	8	8	8	8	8	9	9	9			
<b>Stems per ACRE</b>			648	648	648	809	809	809	728	728	931	809	809	809	405	405	728	1012	1012	1214	850	850	890	850	850	2914	764	764	1118	774	774	1067	784	784	1123	799	799	956	916	916	966	1077	1077	1077			

**Table 5c. Sunbeam Planted Species Summary**

Common Name	Scientific Name	Total Stems Planted
Water Oak	<i>Quercus nigra</i>	2,100
Sycamore	<i>Platanus occidentalis</i>	1,900
Tuliptree	<i>Liriodendron tulipifera</i>	1,000
Willow Oak	<i>Quercus phellos</i>	1,000
White Oak	<i>Quercus alba</i>	800
Northern Red Oak	<i>Quercus rubra</i>	800
River Birch	<i>Betula nigra</i>	600
Green Ash	<i>Fraxinus pennsylvanica</i>	600
<b>Total</b>		<b>8,800</b>

**Table 6c. Sunbeam Vegetation Plot Mitigation Success Summary (MY5)**

Plot #	Planted Stems/Acre	Volunteer Stems/Acre	Total Stems/Acre	Success Criteria Met?	Average Planted Stem Height (ft)
26	607	283	890	Yes	12.4
27	445	40	486	Yes	17.4
28	809	81	890	Yes	16.0
29	567	324	890	Yes	10.7
30	809	243	1052	Yes	14.6
31	688	243	931	Yes	11.4
32	526	445	971	Yes	13.7
33	850	162	1012	Yes	9.8
34	688	162	850	Yes	10.1
35	405	0	405	Yes	3.3
36	567	1012	1578	Yes	7.2
37	809	0	809	Yes	2.6
<b>Project Avg</b>	<b>647</b>	<b>250</b>	<b>897</b>	<b>Yes</b>	<b>10.8</b>





# **Appendix C**

## **Vegetation Monitoring Plot Photos**

**Pequod Vegetation Monitoring Plot Photos**



Vegetation Plot 1 (10/4/23)



Vegetation Plot 2 (10/4/23)



Vegetation Plot 3 (10/4/23)



Vegetation Plot 4 (10/4/23)



Vegetation Plot 5 (10/4/23)



Vegetation Plot 6 (10/4/23)

**Pequod Vegetation Monitoring Plot Photos**



Vegetation Plot 7 (10/4/23)



Vegetation Plot 8 (10/4/23)



Vegetation Plot 9 (10/4/23)



Vegetation Plot 10 (10/4/23)



Vegetation Plot 11 (10/4/23)



Vegetation Plot 12 (10/4/23)

**Pequod Vegetation Monitoring Plot Photos**



Vegetation Plot 13 (10/4/23)



Vegetation Plot 14 (10/4/23)



Vegetation Plot 15 (10/4/23)



Vegetation Plot 16 (10/4/23)



Vegetation Plot 17 (10/4/23)

**Schmid Creek Vegetation Monitoring Plot Photos MY5 (09/21/2023)**



Vegetation Plot 18



Vegetation Plot 19



Vegetation Plot 20



Vegetation Plot 21



Vegetation Plot 22



Vegetation Plot 23

**Schmid Creek Vegetation Monitoring Plot Photos**



Vegetation Plot 24



Vegetation Plot 25

**Sunbeam Vegetation Monitoring Plot Photos MY5 10/31/2023**



Vegetation Plot 26



Vegetation Plot 27



Vegetation Plot 28



Vegetation Plot 29



Vegetation Plot 30



Vegetation Plot 31

**Sunbeam Vegetation Monitoring Plot Photos MY5 10/31/2023**



Vegetation Plot 32



Vegetation Plot 33



Vegetation Plot 34



Vegetation Plot 35



Vegetation Plot 36



Vegetation Plot 37



# **Appendix D**

## **Vegetation Monitoring Plot Data Sheets**

P E Quod 2023

<b>Plot (continued): 100046-01-0001</b>				Oct 2022 Data			THIS YEAR'S DATA								
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0001**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role:

Date last planted:

New planting date m/yy?

Check box if plot was not Notes: sampled, specify reason below

				Oct 2022 Data			THIS YEAR'S DATA						
ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes

3	Platanus occidentalis	c	R	3.1	0.3	135.0	DBH?	280	2.0	<input type="checkbox"/>	3		
4	Platanus occidentalis	g	R	4.8	0.3	410.0	2.8	480	5.0	<input type="checkbox"/>			
5	Platanus occidentalis	i	R	6.5	0.3	300.0	1.9	400	3.0	<input type="checkbox"/>			
6	Platanus occidentalis	m	R	7.8	0.3	210.0	1.6	360	2.5	<input type="checkbox"/>			
7	Platanus occidentalis	n	R	9.2	0.3	130.0	DBH?	320	2.0	<input type="checkbox"/>			
9	Platanus occidentalis	l	R	7.2	3.2	400.0	3.3	410	5.0	<input type="checkbox"/>			
10	Platanus occidentalis	h	R	5.7	3.2	80.0		220	0.3	<input type="checkbox"/>			
11	Quercus phellos	e	R	3.9	3.2	132.0	DBH?	210	0.7	<input type="checkbox"/>			
12	Quercus nigra	b	R	2.4	3.5	210.0	0.3	280	0.7	<input type="checkbox"/>			
13	Platanus occidentalis	a	R	0.6	3.5	205.0	1.0	300	3.1	<input type="checkbox"/>			
16	Platanus occidentalis	d	R	3.1	6.1	100.0		190	0.2	<input type="checkbox"/>			
17	Platanus occidentalis	f	R	4.5	6.0	450.0	3.1	600	7.0	<input type="checkbox"/>			
18	Platanus occidentalis	i	R	6.1	6.0	440.0	2.8	600	7.0	<input type="checkbox"/>			
23	Quercus phellos	k	R	7.0	9.2	80.0		170	6.3	<input type="checkbox"/>			

# stems: 14 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubing, 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 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

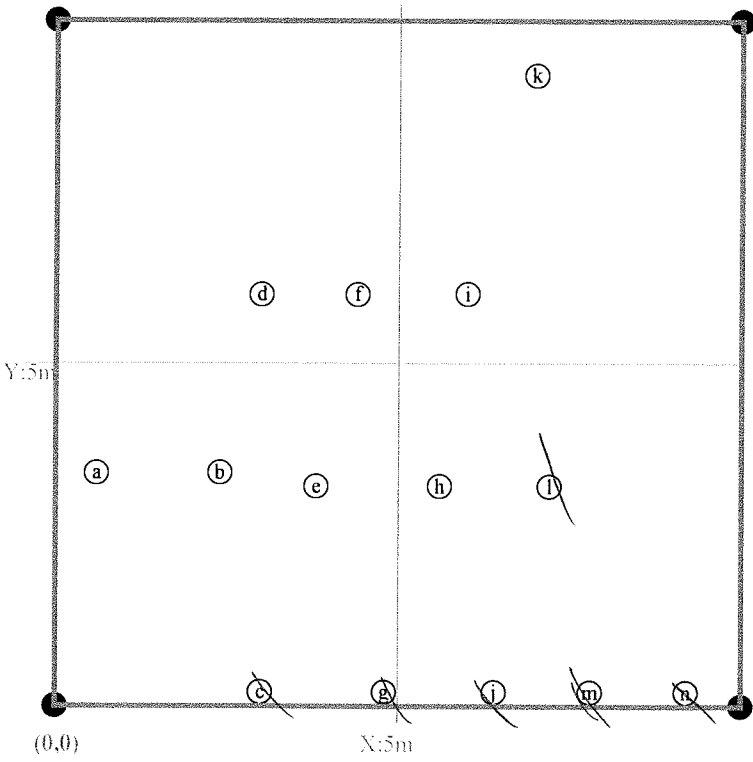
<b>Plot (continued): 100046-01-0001</b>				Oct 2022 Data			THIS YEAR'S DATA							
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	NO. of	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species														
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm														
Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH						
		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)				
BLACK WAL								1						

\*\*Required if cut-off >10cm or subsample ? 100%. ●1 ●●2 ●●●3 ●●●●4 ●●●●●5 ●●●●●●6 ●●●●●●●7 ●●●●●●●●8 ●●●●●●●●●9 ●●●●●●●●●●10 Form WS2, ver 9.1

Map of stems on plot 100046-01-0001

→ X-axis: 316° # stems: 14  
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. 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  
 ANIMAL, Human TRAMpled, 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0002**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  (dec.deg. or m)

Longitude or UTM-E:

Coordinate Accuracy (m):

Plot Dimensions: X:  Y:

Datum:   
UTM Zone:   
X-Axis bearing (deg):

Party:

Role:

Date last planted:

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Oct 2022 Data		THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
29	Quercus phellos	(b)	R	0.5	0.7	175.0	0.2	180	-		3		
30	Quercus phellos	(a)	R	0.2	4.7	230.0	0.9	300	2.7				
31	Quercus rubra	(d)	R	1.1	3.6	160.0	0.2	220	0.9				
33	Fraxinus pennsylvanica	(g)	R	2.8	2.2	120.0	DBH?	140	0.2				
34	Platanus occidentalis	(k)	R	4.3	0.9	500.0	2.8	600	6.0				
36	Quercus phellos	(q)	R	8.6	1.1	85.0		200	0.3				
37	Quercus rubra	(o)	R	7.3	1.8	90.0		300	0.8				
38	Quercus rubra	(n)	R	5.9	3.1	275.0	1.5	250	0.9				
39	Quercus phellos	(l)	R	4.7	4.1	230.0	1.2	240	0.5				
40	Quercus rubra	(i)	R	3.4	5.3	200.0	0.6	220	0.8				
41	Quercus phellos	(f)	R	2.3	6.5	175.0	0.2	200	0.6				
42	Quercus rubra	(e)	R	1.3	7.8	205.0	0.6	220	0.8				
43	Quercus phellos	(c)	R	0.4	9.0	52.0		80	-				
45	Quercus phellos	(i)	R	4.0	9.2	60.0		210	0.3				
46	Quercus phellos	(m)	R	5.0	8.3	160.0	0.1	190	0.3				
48	Liriodendron tulipifera	(p)	R	7.4	6.3	210.0	0.5	300	3.0				
51	Quercus nigra <i>LSTM</i>	(r)	R	9.3	8.8	50.0		300	3.0				
1275	Liriodendron tulipifera	(h)	R	3.4	1.8	550.0	4.1	600	8.0				

# stems: 18

New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1cm*	DBH 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

\*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.

Plot (continued): **100046-01-0002**

Oct 2022 Data

THIS YEAR'S DATA

ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	VIGOR	THIS YEAR'S DATA			
										ddh (mm)	Height (cm)	DBH (cm)	Re-sprout

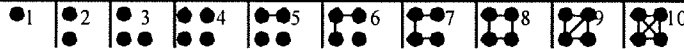
**Natural Woody Stems - tallied by species**

Explanation of cut-off & subsampling\*\*

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH			
		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)
FRPE											
LEST											
PCBU											

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

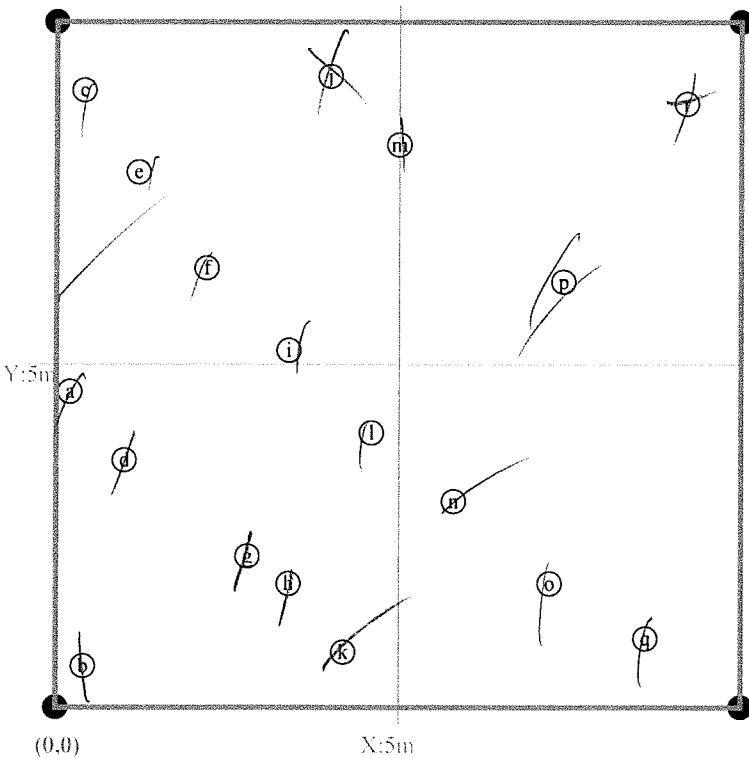


Form WS2, ver 9.1

Map of stems on plot **100046-01-0002**

X-axis: 307°

# stems: 18  
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. 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  
 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0003**

VMD Year (1-5):  Date:  /  -  /

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?  / \_\_\_\_\_

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		VIGOR*	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
54	Platanus occidentalis	a	R	0.1	2.1	300.0	2.8	<input type="checkbox"/>	320	1.8	<input type="checkbox"/>	3		
55	Platanus occidentalis	b	R	0.4	0.6	260.0	1.9	<input type="checkbox"/>	250	1.5	<input type="checkbox"/>	3		
56	Quercus phellos	h	R	3.5	0.4	100.0		<input type="checkbox"/>	50		<input type="checkbox"/>	2		RESPROUT
58	Quercus phellos	g	R	3.0	4.1	260.0	1.2	<input type="checkbox"/>	270	1.1	<input type="checkbox"/>	3		
59	Platanus occidentalis	f	R	2.8	6.0	360.0	2.0	<input type="checkbox"/>	410	2.2	<input type="checkbox"/>			
60	Platanus occidentalis	e	R	2.6	7.3	170.0	0.2	<input type="checkbox"/>	260	0.6	<input type="checkbox"/>			
61	Platanus occidentalis	d	R	2.5	8.6	250.0	1.3	<input type="checkbox"/>	300	1.0	<input type="checkbox"/>			
62	Platanus occidentalis	c	R	2.3	9.9	165.0	0.4	<input type="checkbox"/>	260	0.6	<input type="checkbox"/>			
63	Platanus occidentalis	i	R	5.7	9.3	310.0	2.0	<input type="checkbox"/>	410	2.8	<input type="checkbox"/>			
64	Betula nigra	j	R	6.0	7.1	165.0	0.2	<input type="checkbox"/>	240	0.6	<input type="checkbox"/>			
65	Platanus occidentalis	l	R	6.3	5.2	270.0	1.4	<input type="checkbox"/>	440	3.0	<input type="checkbox"/>			
66	Platanus occidentalis	k	R	6.3	2.9	240.0	1.2	<input type="checkbox"/>	400	1.5	<input type="checkbox"/>			
68	Quercus phellos	m	R	6.6	1.0	192.0	0.4	<input type="checkbox"/>	240	0.5	<input type="checkbox"/>			
69	Platanus occidentalis	n	R	9.4	1.6	310.0	0.7	<input type="checkbox"/>	460	3.0	<input type="checkbox"/>			

# stems: 14 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 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, UNKNOW, 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

<b>Plot (continued): 100046-01-0003</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

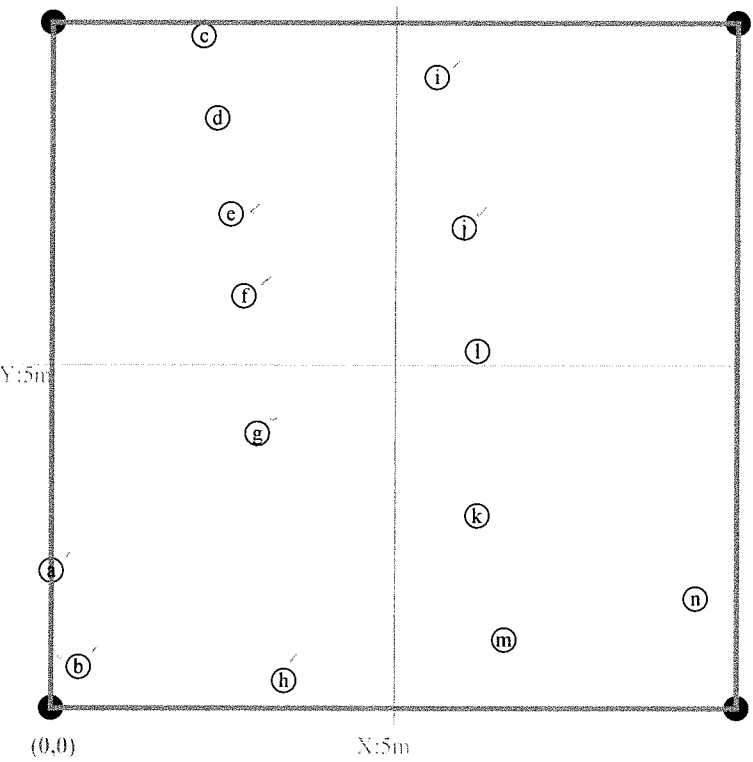
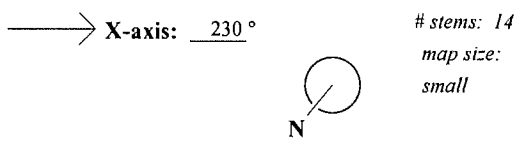
Natural Woody Stems - tallied by species										
Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-5-	5-	=10 (write DBH)
SWEET GUM				☒						

Explanation of cut-off & subsampling\*\*:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

\*\*Required if cut-off >10cm or subsample ? 100%. ●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

Map of stems on plot 100046-01-0003



\*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, 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0004**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role:

Date last planted:

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Oct 2022 Data		Notes*	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
75	Liriodendron tulipifera	(a)	R	0.3	0.3	390.0	1.3	<input type="checkbox"/>	415	1.8	<input type="checkbox"/>	3		
76	Betula nigra	(g)	R	0.4	2.6	300.0	0.7	<input type="checkbox"/>	305	1.3	<input type="checkbox"/>	1		
77	Betula nigra	(b)	R	0.3	4.1	400.0	2.1	<input type="checkbox"/>	500	3.1	<input type="checkbox"/>	1		
78	Quercus phellos	(c)	R	0.3	5.8	193.0	0.4	<input type="checkbox"/>	320	1.0	<input type="checkbox"/>	1		
79	Quercus nigra	(d)	R	0.3	7.4	136.0	DBH?	<input type="checkbox"/>	205	0.5	<input type="checkbox"/>	1		
80	Platanus occidentalis	(e)	R	0.2	9.1	450.0	3.1	<input type="checkbox"/>	700	5.2	<input type="checkbox"/>	1		
83	Quercus nigra	(i)	R	3.1	7.1	128.0	DBH?	<input type="checkbox"/>	X		<input type="checkbox"/>	0		
84	Quercus phellos	(h)	R	3.1	5.7	50.0		<input type="checkbox"/>	50		<input type="checkbox"/>	2		
86	Quercus phellos	(j)	R	3.2	2.7	200.0	0.6	<input type="checkbox"/>	280	1.0	<input type="checkbox"/>	3		
88	Quercus phellos	(k)	R	6.5	0.2	121.0	DBH?	<input type="checkbox"/>	119		<input type="checkbox"/>	2	munched	
89	Quercus rubra	(l)	R	6.5	1.8	81.0		<input type="checkbox"/>	95		<input type="checkbox"/>	3		
90	Liriodendron tulipifera	(m)	R	6.4	3.4	400.0	2.2	<input type="checkbox"/>	450	2.5	<input type="checkbox"/>	3		
91	Liriodendron tulipifera	(p)	R	6.6	4.9	475.0	3.9	<input type="checkbox"/>	600	4.4	<input type="checkbox"/>	3		
92	Liriodendron tulipifera	(n)	R	6.5	6.7	Missing		<input type="checkbox"/>	X		<input type="checkbox"/>	0		
93	Quercus rubra	(o)	R	6.5	8.1	92.0		<input type="checkbox"/>	X		<input type="checkbox"/>	0		
94	Quercus rubra	(s)	R	9.7	8.7	90.0		<input type="checkbox"/>	90		<input type="checkbox"/>	2		
95	Platanus occidentalis	(r)	R	9.5	6.8	550.0	3.3	<input type="checkbox"/>	800	5.0	<input type="checkbox"/>	3		
96	Quercus alba	(q)	R	9.4	5.0	100.0		<input type="checkbox"/>	105		<input type="checkbox"/>	3		
1278	Quercus phellos	(f)	R	0.5	2.0	182.0	0.3	<input type="checkbox"/>	205	0.5	<input type="checkbox"/>	3		

# stems: 19 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
LITV	(1)			370	2	3		

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 7  
 \*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



**Natural Woody Stems - tallied by species**

**Height Cut-Off** (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

**Explanation of cut-off & subsampling\*\*:**

Species Name	Sub-Sapl	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)
Sweet gum				10		2	2	2	3	

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

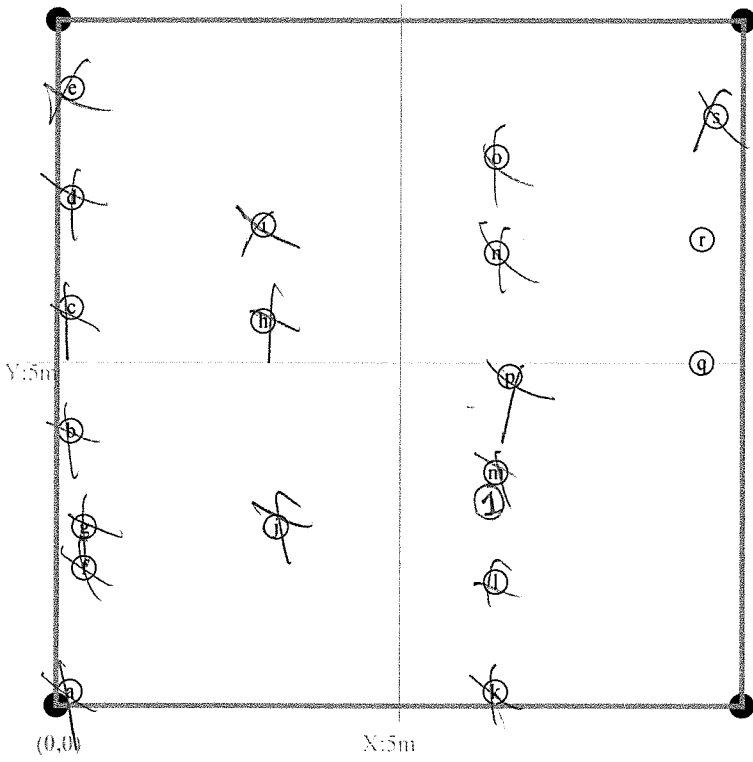
Legend: 1 (1 dot), 2 (2 dots), 3 (3 dots), 4 (4 dots), 5 (5 dots), 6 (6 dots), 7 (7 dots), 8 (8 dots), 9 (9 dots), 10 (10 dots)

Form WS2, ver 9.1

Map of stems on plot **100046-01-0004**

X-axis: 5°

# stems: 19  
map size: small



\*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, UNKNOW, specify other.

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

p. 8

Printed in the CVS-EEP Entry Tool ver. 2.3.1

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0005** Party: \_\_\_\_\_ Role: \_\_\_\_\_ Date last planted: \_\_\_\_\_

VMD Year (1-5):  Date:  New planting date m/yy?

Taxonomic Standard: \_\_\_\_\_  Check box if plot was not

Taxonomic Standard DATE: \_\_\_\_\_ Notes: sampled, specify reason below

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		VIGOR	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
100	Fraxinus pennsylvanica	(i)	R	9.1	1.0	100.0			190	0.5		3		
102	Quercus rubra	(j)	R	8.1	3.3	90.0			160	0.3		1		
104	Quercus nigra	(g)	R	5.8	1.1	165.0	0.2		200	0.3		1		
105	Quercus phellos	(a)	R	0.3	0.5	83.0			135			1		
106	Quercus rubra	(c)	R	1.4	1.3	74.0			45			2		Resprout
109	Quercus rubra	(f)	R	5.1	4.3	70.0			100			3		
111	Quercus phellos	(i)	R	7.4	6.3	135.0	DBH?		220	1.1		1		
113	Quercus phellos	(m)	R	9.9	8.6	90.0			166	0.2		1		
116	Quercus rubra	(h)	R	6.0	8.4	82.0			125			1		
121	Platanus occidentalis	(b)	R	0.4	6.2	300.0	3.1		400	3.1		1		
124	Platanus occidentalis	(d)	R	3.5	8.9	310.0	3.3		480	4.3		1		
125	Platanus occidentalis	(e)	R	4.4	9.7	250.0	2.0		100	2.5		1		
1937	Quercus phellos	(k)	R	8.1	3.4	100.0			130	0.2		1		

# stems: 13 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
<i>Am. Persimmon</i>				75				

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 9

\*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, HURRricane, 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

<b>Plot (continued): 100046-01-0005</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

**Natural Woody Stems - tallied by species** Explanation of cut-off & subsampling\*\*:

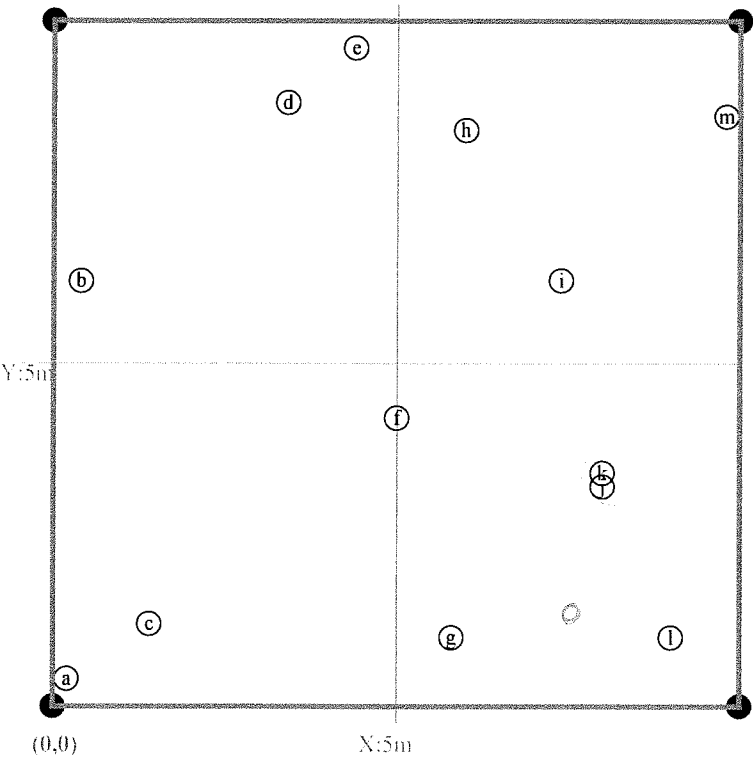
**Height Cut-Off** (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)	

\*\*Required if cut-off >10cm or subsample ? 100%. ●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

**Map of stems on plot 100046-01-0005**

→ Please measure bearing of X-axis and record at top of plot. # stems: 13  
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. 10  
 \*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 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0006**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role:

Date last planted:

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		VIGOR*	THIS YEAR'S DATA				
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*
128	Platanus occidentalis	(c)	R	0.4	0.6	320.0	2.1	<input type="checkbox"/>	370	2.7	<input type="checkbox"/>	3	
130	Quercus phellos	(a)	R	0.3	4.2	300.0	1.3	<input type="checkbox"/>	395	3.6	<input type="checkbox"/>	1	
131	Quercus phellos	(b)	R	0.3	6.0	210.0	0.7	<input type="checkbox"/>	360	2.2	<input type="checkbox"/>		
132	Quercus phellos	(d)	R	0.4	8.0	380.0	2.6	<input type="checkbox"/>	390	3.7	<input type="checkbox"/>		
133	Platanus occidentalis	(i)	R	2.3	9.4	260.0	1.1	<input type="checkbox"/>	380	2.0	<input type="checkbox"/>		
134	Quercus phellos	(h)	R	2.3	7.7	230.0	1.2	<input type="checkbox"/>	340	2.0	<input type="checkbox"/>		
135	Platanus occidentalis	(g)	R	2.3	6.0	360.0	2.2	<input type="checkbox"/>	480	2.2	<input type="checkbox"/>		
136	Platanus occidentalis	(f)	R	2.2	4.5	260.0	1.0	<input type="checkbox"/>	400	2.7	<input type="checkbox"/>		
137	Quercus phellos	(e)	R	2.3	2.5	165.0	0.3	<input type="checkbox"/>	270	2.0	<input type="checkbox"/>		
138	Fraxinus pennsylvanica	(l)	R	4.4	1.2	84.0		<input type="checkbox"/>	120		<input type="checkbox"/>		
139	Quercus phellos	(m)	R	4.4	2.9	200.0	0.6	<input type="checkbox"/>	305	1.0	<input type="checkbox"/>		
140	Quercus phellos	(n)	R	4.4	5.2	350.0	2.9	<input type="checkbox"/>	460	5.5	<input type="checkbox"/>		
141	Quercus phellos	(k)	R	4.3	7.2	300.0	2.6	<input type="checkbox"/>	380	5.0	<input type="checkbox"/>		
142	Quercus phellos	(j)	R	4.1	9.1	320.0	2.8	<input type="checkbox"/>	390	5.0	<input type="checkbox"/>		
143	Platanus occidentalis	(r)	R	6.7	8.3	400.0	3.2	<input type="checkbox"/>	500	3.6	<input type="checkbox"/>		
144	Platanus occidentalis	(q)	R	6.6	6.2	330.0	3.0	<input type="checkbox"/>	400	3.1	<input type="checkbox"/>		
146	Platanus occidentalis	(o)	R	6.5	2.5	260.0	2.3	<input type="checkbox"/>	380	2.5	<input type="checkbox"/>		
147	Platanus occidentalis	(p)	R	6.6	0.7	230.0	1.8	<input type="checkbox"/>	370	3.0	<input type="checkbox"/>		
148	Fraxinus pennsylvanica	(t)	R	8.8	0.5	133.0	DBH?	<input type="checkbox"/>	170	0.3	<input type="checkbox"/>		
149	Quercus phellos	(s)	R	8.7	2.0	154.0	0.2	<input type="checkbox"/>	230	0.2	<input type="checkbox"/>		
150	Quercus phellos <i>nigra</i>	(u)	R	8.9	3.9	200.0	0.8	<input type="checkbox"/>	300	0.8	<input type="checkbox"/>		
151	Quercus phellos <i>nigra</i>	(v)	R	9.0	5.3	92.0		<input type="checkbox"/>	150	0.2	<input type="checkbox"/>		
152	Quercus nigra	(w)	R	9.1	7.0	130.0	DBH?	<input type="checkbox"/>	190	0.3	<input type="checkbox"/>		
153	Fraxinus pennsylvanica	(x)	R	9.1	8.7	80.0		<input type="checkbox"/>	150	0.2	<input type="checkbox"/>		

# stems: 24 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1cm*	DBH 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. 11

\*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.

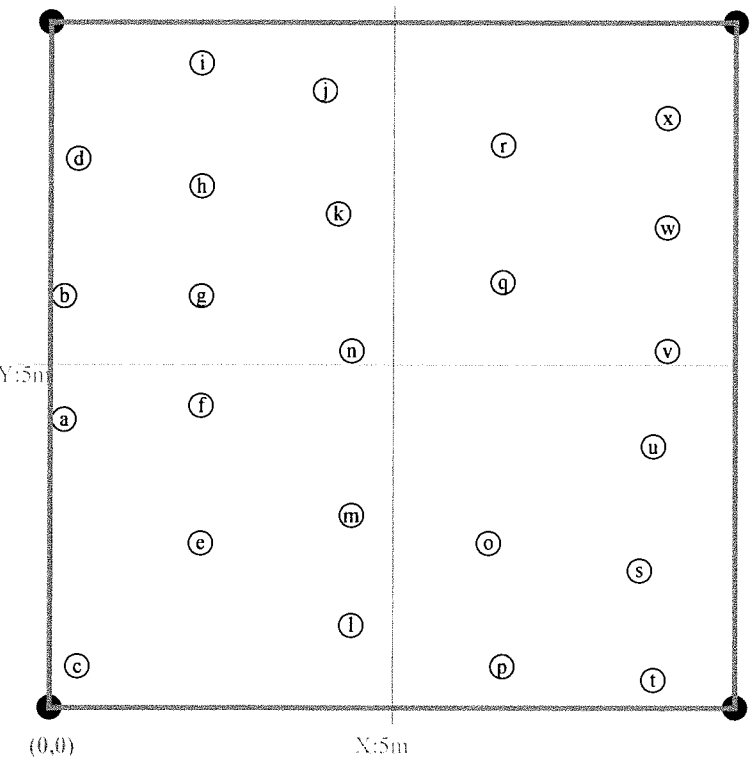
<b>Plot (continued): 100046-01-0006</b>				Sep 2022 Data			Notes	THIS YEAR'S DATA					
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)		ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*

Natural Woody Stems - tallied by species											Explanation of cut-off & subsampling**
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):											<input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm
Species Name	<input checked="" type="checkbox"/> c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH		
		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)

\*\*Required if cut-off >10cm or subsample ? 100%. ●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

Map of stems on plot 100046-01-0006

→ Please measure bearing of X-axis and record at top of plot. # stems: 24 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. 12  
 \*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 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0007**

VMD Year (1-5):  Date:  -  /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role:

Date last planted:

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	Sep 2022 Data		Height 1cm*	DBH 1 cm	VIGOR*	THIS YEAR'S DATA					
				X 0.1m	Y 0.1m				Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
155	Quercus rubra	(a)	R	0.3	0.6	190.0	0.4	<input type="checkbox"/>	260	1.8	<input type="checkbox"/>	3		
156	Quercus phellos	(b)	R	1.0	3.0	42.0		<input type="checkbox"/>	40		<input type="checkbox"/>			
157	Fraxinus pennsylvanica	(c)	R	2.6	1.9	72.0		<input type="checkbox"/>	122		<input type="checkbox"/>			
158	Fraxinus pennsylvanica	(h)	R	4.2	0.5	65.0		<input type="checkbox"/>	78		<input type="checkbox"/>			
160	Quercus phellos	(m)	R	6.7	1.5	130.0	DBH?	<input type="checkbox"/>	203	0.5	<input type="checkbox"/>			
162	Quercus phellos	(f)	R	3.7	3.5	147.0	0.4	<input type="checkbox"/>	220	2.0	<input type="checkbox"/>			
165	Quercus phellos	(c)	R	1.2	8.8	118.0	DBH?	<input type="checkbox"/>	186	0.3	<input type="checkbox"/>			
166	Quercus phellos	(d)	R	2.4	7.8	106.0	DBH?	<input type="checkbox"/>	130		<input type="checkbox"/>			
167	Quercus phellos	(g)	R	3.7	7.0	136.0	DBH?	<input type="checkbox"/>	172	0.5	<input type="checkbox"/>			
168	Quercus phellos	(i)	R	5.0	5.9	100.0		<input type="checkbox"/>	155	0.1	<input type="checkbox"/>			
169	Quercus rubra	(l)	R	6.4	5.0	67.0		<input type="checkbox"/>	120		<input type="checkbox"/>			
172	Platanus occidentalis	(o)	R	8.2	5.9	350.0	1.7	<input type="checkbox"/>	420	3.0	<input type="checkbox"/>			
173	Platanus occidentalis	(n)	R	7.0	7.1	340.0	1.7	<input type="checkbox"/>	450	4.5	<input type="checkbox"/>			
174	Platanus occidentalis	(k)	R	5.7	8.4	270.0	1.1	<input type="checkbox"/>	380	3.5	<input type="checkbox"/>			
175	Platanus occidentalis	(j)	R	4.4	9.4	190.0	0.5	<input type="checkbox"/>	280	2.0	<input type="checkbox"/>			
176	Quercus nigra	(p)	R	9.1	9.3	240.0	0.9	<input type="checkbox"/>	270	2.5	<input type="checkbox"/>			

# stems: 16 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
Bent				40				

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 13

\*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-EPP Entry Tool ver. 2.3.1

<b>Plot (continued): 100046-01-0007</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Explanation of cut-off & subsampling\*\*:

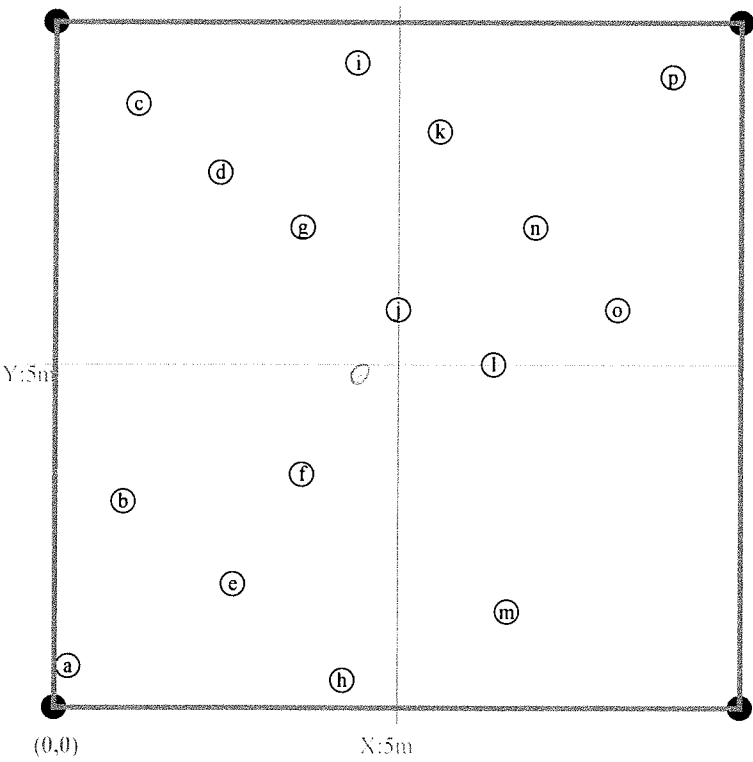
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)
<i>Guava</i>	—	11	11		—					
	—				—					
	—				—					
	—				—					
	—				—					
	—				—					
	—				—					
	—				—					

\*\*Required if cut-off >10cm or subsample ? 100%. Form WS2, ver 9.1

Map of stems on plot 100046-01-0007

X-axis: 270°   
 # stems: 16   
 map size: small   
 N



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 14  
 \*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 CYS-EEP Entry Tool ver. 2.3.1

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0008**

VMD Year (1-5):  Date:  -  /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role:

Date last planted:

New planting date m/yy?

Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		Vigor*	THIS YEAR'S DATA				
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*
179	Quercus rubra	(a)	R	0.5	0.2	52.0	<input type="checkbox"/>	85		<input type="checkbox"/>	3		
180	Quercus alba	(d)	R	1.8	0.6	Missing	<input type="checkbox"/>	/		<input type="checkbox"/>	3		
182	Quercus rubra	(h)	R	4.6	1.0	102.0	DBH? <input type="checkbox"/>	130		<input type="checkbox"/>	1		
183	Quercus alba	(l)	R	5.9	1.1	162.0	0.3 <input type="checkbox"/>	245	1.0	<input type="checkbox"/>	3		
184	Quercus alba	(m)	R	7.5	1.2	150.0	0.2 <input type="checkbox"/>	190	0.5	<input type="checkbox"/>			
188	Quercus phellos	(j)	R	5.0	3.8	380.0	3.1 <input type="checkbox"/>	405	6.0	<input type="checkbox"/>			
190	Fraxinus pennsylvanica	(b)	R	0.6	3.1	Missing	<input type="checkbox"/>	/		<input type="checkbox"/>			
191	Quercus phellos	(c)	R	1.1	6.7	Missing	<input type="checkbox"/>	/		<input type="checkbox"/>			
192	Quercus phellos	(f)	R	2.6	7.0	116.0	DBH? <input type="checkbox"/>	145	0.1	<input type="checkbox"/>			
193	Quercus phellos	(g)	R	4.0	7.4	200.0	1.3 <input type="checkbox"/>	300	1.5	<input type="checkbox"/>			
194	Quercus phellos	(k)	R	5.5	7.9	230.0	1.5 <input type="checkbox"/>	270	1.5	<input type="checkbox"/>			
195	Quercus alba	(n)	R	7.6	8.0	131.0	DBH? <input type="checkbox"/>	160	0.3	<input type="checkbox"/>			
196	Quercus phellos	(o)	R	9.3	8.0	80.0	<input type="checkbox"/>	140	0.1	<input type="checkbox"/>			
197	Liriodendron tulipifera	(e)	R	1.8	9.8	115.0	DBH? <input type="checkbox"/>	205	0.4	<input type="checkbox"/>			
1261	Quercus rubra	(i)	R	4.8	7.3	220.0	1.4 <input type="checkbox"/>	350	2.0	<input type="checkbox"/>			

# stems: 15 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
Qu ph				150	4.6			

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 15

\*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



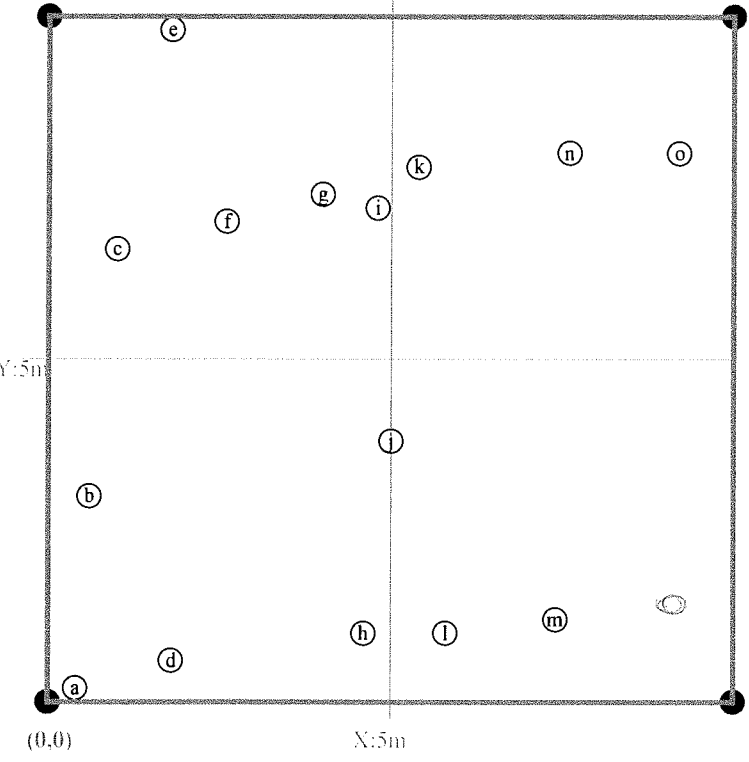
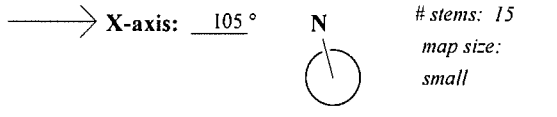
<b>Plot (continued): 100046-01-0008</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species										
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm										
Species Name	c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH	
		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 GUM										
DI VI										

Explanation of cut-off & subsampling\*\*:

\*\*Required if cut-off >10cm or subsample ? 100%. Form WS2, ver 9.1

Map of stems on plot 100046-01-0008



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 16  
 \*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  
 M=missing. 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0009**

Party: JS Role: TO Date last planted: 1/1  
 New planting date m/yy? 1/1  
 Check box if plot was not  
 Notes: sampled, specify reason below

VMD Year (1-5): 5 Date: 10/4/23 - 1/1  
 Taxonomic Standard: \_\_\_\_\_  
 Taxonomic Standard DATE: \_\_\_\_\_  
 Latitude or UTM-N: 35.910907 Datum: NAD27  
 (dec.deg. or m)  
 Longitude or UTM-E: -79.935713 UTM Zone: 17N  
 Coordinate Accuracy (m): 0.5 X-Axis bearing (deg): 330  
 Plot Dimensions: X: 10 Y: 10  Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

ID	Species Name	Map char	Source*	X Y		Oct 2022 Data		Notes	THIS YEAR'S DATA					
				0.1m	0.1m	Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
200	Quercus phellos	(d)	R	0.4	0.2	280.0	1.4		320	3.2		3		
201	Quercus rubra	(a)	R	0.3	1.8	50.0			135					
202	Quercus phellos	(b)	R	0.3	3.3	132.0	DBH?		165	0.2				
203	Quercus phellos	(c)	R	0.2	5.0	100.0			130	-				
205	Platanus occidentalis	(e)	R	1.3	8.9	164.0	0.4		220	0.4				
206	Quercus rubra	(f)	R	1.8	7.3	95.0			105	-				
207	Platanus occidentalis	(g)	R	2.1	5.7	250.0	0.9		370	2.2				
208	Platanus occidentalis	(h)	R	2.4	4.0	130.0	DBH?		110	0.2				
210	Platanus occidentalis	(i)	R	2.7	0.7	225.0	1.1		320	0.7				
213	Fraxinus pennsylvanica	(j)	R	4.7	3.1	180.0	0.6		240	0.3				
214	Platanus occidentalis	(k)	R	4.7	4.8	230.0	0.7		200	1.6				
216	Betula nigra	(l)	R	4.7	8.1	300.0	1.8		300	2.0				
217	Liriodendron tulipifera	(m)	R	4.6	9.9	80.0			70	-	X	2		
218	Quercus phellos	(o)	R	7.6	9.8	195.0	0.7		220	0.2		3		
219	Quercus phellos	(n)	R	7.7	7.7	186.0	0.4		220	0.7				
220	Quercus phellos	(r)	R	8.0	6.0	112.0	DBH?		180	1.5				
222	Quercus nigra	(q)	R	8.0	2.0	200.0	0.8		230	2.0				
223	Quercus nigra	(p)	R	8.1	0.4	142.0	0.2		220	1.0				
224	Quercus rubra	(s)	R	9.8	8.5	128.0	DBH?		170	0.2				

# stems: 19 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1cm*	DBH 1 cm	Vigor*	Damage*	Notes
FRPE		(A)		240				
FRPE		(B)		200				
FRPE		(C)		200				

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 17  
 \*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

Plot (continued): **100046-01-0009**

Oct 2022 Data

THIS YEAR'S DATA

ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	NON*	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

**Natural Woody Stems - tallied by species**

Explanation of cut-off & subsampling\*\*:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH			
		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)
FRPE				///							

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

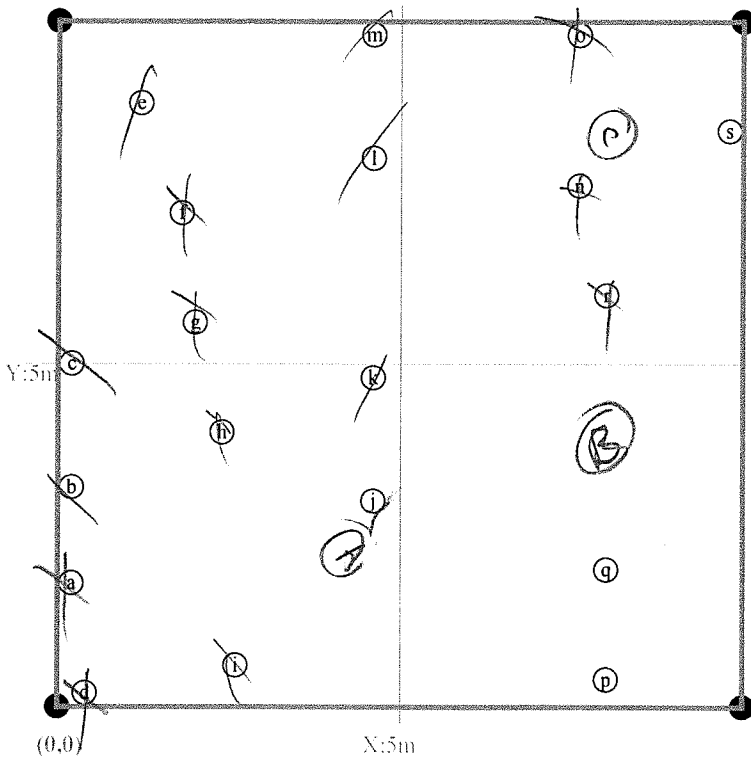


Form WS2, ver 9.1

Map of stems on plot **100046-01-0009**

X-axis: 330°

# stems: 19  
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. 18

\*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, HURRricane, DISeased, VINE

M=missing.

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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0010**

VMD Year (1-5):  Date:  -

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party: \_\_\_\_\_ Role: \_\_\_\_\_ Date last planted: \_\_\_\_\_

New planting date m/yy?   Check box if plot was not sampled, specify reason below

Notes: \_\_\_\_\_

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Oct 2022 Data		THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
226	Fraxinus pennsylvanica	(b)	R	0.4	0.4	103.0	DBH? <input type="checkbox"/>	105		<input type="checkbox"/>	3		
227	Quercus rubra	(g)	R	3.3	0.1	58.0	<input type="checkbox"/>	67		<input type="checkbox"/>	3		
228	Quercus phellos	(f)	R	3.0	1.5	155.0	0.2 <input type="checkbox"/>	178	0.6	<input type="checkbox"/>	3		
229	Quercus rubra	(d)	R	2.1	3.0	48.0	<input type="checkbox"/>	105		<input type="checkbox"/>	4		
230	Quercus rubra	(c)	R	1.6	4.6	96.0	<input type="checkbox"/>	97		<input type="checkbox"/>	3		
233	Quercus nigra	(a)	R	0.2	9.4	70.0	<input type="checkbox"/>	111		<input type="checkbox"/>	3		
235	Platanus occidentalis	(e)	R	2.7	7.5	260.0	1.6 <input type="checkbox"/>	320	2.1	<input type="checkbox"/>	3		
239	Platanus occidentalis	(i)	R	6.4	1.1	410.0	2.2 <input type="checkbox"/>	440	4.2	<input type="checkbox"/>	3		
240	Quercus alba	(l)	R	8.6	0.8	Missing	<input type="checkbox"/>	X		<input type="checkbox"/>	3		
242	Quercus rubra	(j)	R	7.1	3.6	125.0	DBH? <input type="checkbox"/>	200	0.5	<input type="checkbox"/>	3		
246	Quercus rubra	(h)	R	3.6	9.8	142.0	0.3 <input type="checkbox"/>	196	0.8	<input type="checkbox"/>	3		
247	Liriodendron tulipifera	(k)	R	7.4	9.9	109.0	DBH? <input type="checkbox"/>	185	0.6	<input type="checkbox"/>	3		
249	Quercus nigra	(m)	R	9.0	6.9	73.0	<input type="checkbox"/>	80		<input type="checkbox"/>	3		
250	Quercus phellos	(n)	R	9.6	5.1	60.0	<input type="checkbox"/>	105		<input type="checkbox"/>	3		

# stems: 14 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
<del>FRAXINUS</del>								

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 19

\*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.

Plot (continued): **100046-01-0010**

Oct 2022 Data

THIS YEAR'S DATA

ID	Species	map source char	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	Height (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes
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**Natural Woody Stems - tallied by species**

Explanation of cut-off & subsampling\*\*:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)	
SWT gum	---				---			o	o	
DINI	---				---				o	
	---				---					
	---				---					
	---				---					
	---				---					
	---				---					
	---				---					

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

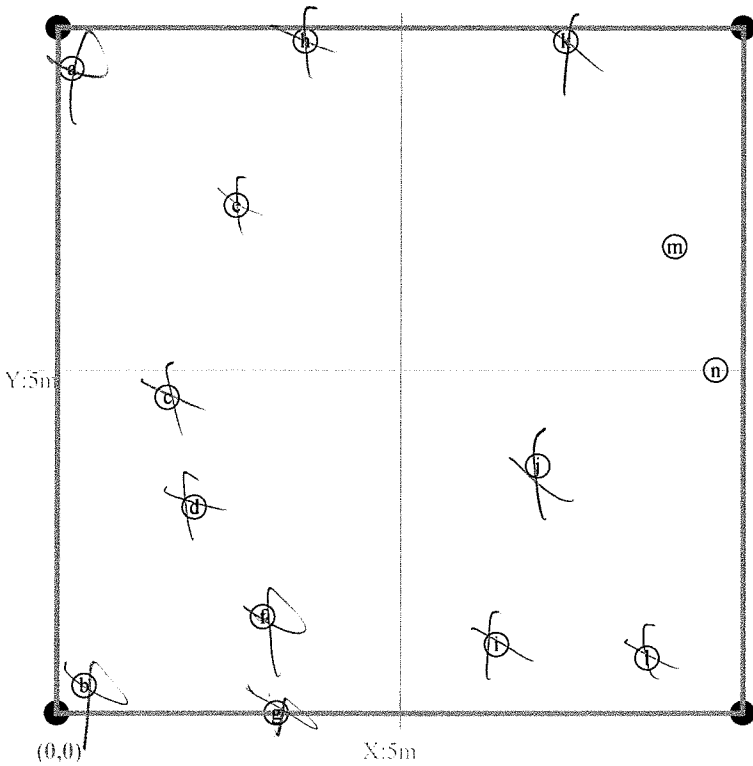


Form WS2, ver 9.1

Map of stems on plot **100046-01-0010**

X-axis: 220°

# stems: 14  
map size: small



\*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.

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0011**

VMD Year (1-5):  Date: 10/4/23 - / /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N: (dec.deg. or m)

Longitude or UTM-E:

Coordinate Accuracy (m):

Plot Dimensions: X: 10 Y: 10

35.910316 Datum: NAD27  
-79.936838 UTM Zone: 17N  
0.5 X-Axis bearing (deg): 69

Party:  Role:  Date last planted:   
New planting date m/yy?   Check box if plot was not  
Notes: sampled, specify reason below

Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Oct 2022 Data		N	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
256	Quercus rubra	f	R	7.5	0.6	20.0			250					
266	Quercus rubra	c	R	3.7	5.1	30.0			60					
267	Quercus rubra	e	R	5.3	5.3	60.0			60					
268	Quercus phellos	g	R	7.5	5.3	50.0			65					
269	Quercus phellos	i	R	9.0	5.3	74.0			80					
270	Fraxinus pennsylvanica	h	R	8.3	7.6	320.0	2.8		400	3.0				
272	Platanus occidentalis	d	R	4.3	7.0	320.0	2.1		400	4.8				
273	Platanus occidentalis	b	R	1.9	7.5	500.0	2.0		550	3.5				
274	Fraxinus pennsylvanica	a	R	0.2	7.7	300.0	1.6		350	1.5				

# stems: 9 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

**Natural Woody Stems - tallied by species**

Explanation of cut-off & subsampling\*\*:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)
BENI						1				
LST			11					11		
FRPE						11				

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



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

\*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, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.

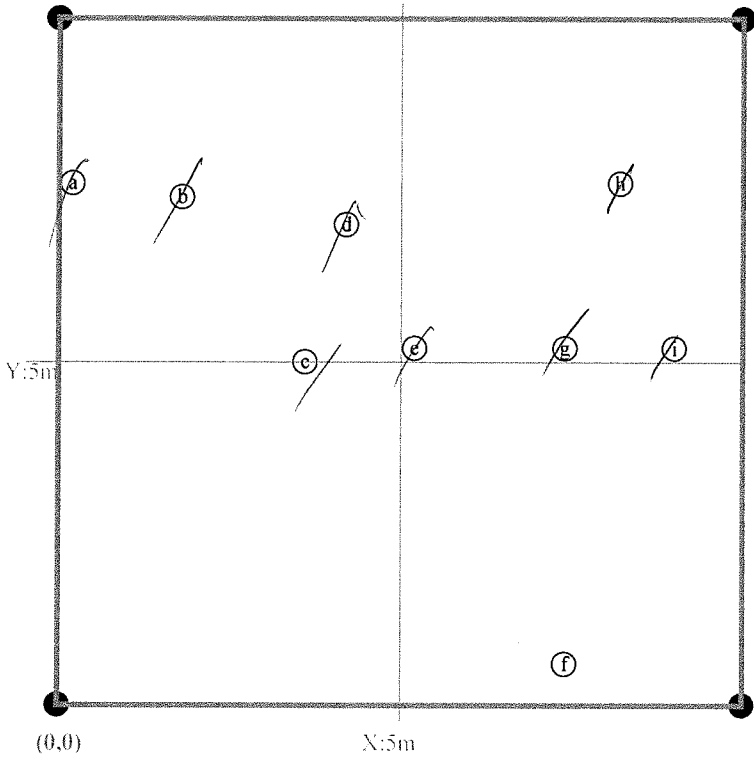
\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Map of stems on plot 100046-01-0011

→ X-axis: 69°



# stems: 9  
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. 22  
 \*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, HURRricane, DISeased, VINE  
 M=missing. 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0012**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  (dec.deg. or m)

Longitude or UTM-E:

Coordinate Accuracy (m):

Plot Dimensions: X:  Y:

Datum:   
 UTM Zone:   
 X-Axis bearing (deg):

Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:	Role:
SF	
SB	

Date last planted:   
 New planting date m/yy?   
 Check box if plot was not  
 Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Oct 2022 Data		Vigor*	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re- sprout	Vigor*	Damage*	Notes
277	Quercus rubra	(b)	R	1.8	0.1	168.0	0.3	<input type="checkbox"/>	230	.4	<input type="checkbox"/>	3		
278	Quercus phellos	(g)	R	5.7	0.1	116.0	DBH?	<input type="checkbox"/>	200	.3	<input type="checkbox"/>	3		
284	Platanus occidentalis	(c)	R	2.4	5.6	Missing		<input type="checkbox"/>	X		<input type="checkbox"/>	0		
285	Platanus occidentalis	(d)	R	3.8	4.5	340.0	1.9	<input type="checkbox"/>	430	3.0	<input type="checkbox"/>	3		
286	Platanus occidentalis	(e)	R	5.4	3.2	340.0	2.2	<input type="checkbox"/>	410	3.0	<input type="checkbox"/>	3		
287	Platanus occidentalis	(i)	R	6.8	2.2	300.0	1.0	<input type="checkbox"/>	390	2.5	<input type="checkbox"/>	3		
288	Liriodendron tulipifera	(l)	R	8.3	1.4	170.0	0.3	<input type="checkbox"/>	320	1.3	<input type="checkbox"/>	3		
290	Quercus nigra	(m)	R	8.8	4.2	200.0	0.6	<input type="checkbox"/>	300	2.2	<input type="checkbox"/>	3		
292	Liriodendron tulipifera	(h)	R	5.8	6.1	215.0	1.0	<input type="checkbox"/>	320	2.0	<input type="checkbox"/>	3		
296	Liriodendron tulipifera	(a)	R	0.2	9.9	85.0		<input type="checkbox"/>	110		<input type="checkbox"/>	3		
297	Fraxinus pennsylvanica	(f)	R	5.4	9.6	110.0	DBH?	<input type="checkbox"/>	130		<input type="checkbox"/>	2		
298	Fraxinus pennsylvanica	(j)	R	6.7	8.8	60.0		<input type="checkbox"/>	90		<input type="checkbox"/>	3		
299	Fraxinus pennsylvanica	(k)	R	8.0	8.1	50.0		<input type="checkbox"/>	50		<input type="checkbox"/>	2		
300	Fraxinus pennsylvanica	(n)	R	9.5	7.4	100.0		<input type="checkbox"/>	210	0.8	<input type="checkbox"/>	3		

# stems: 14 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 23  
 \*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  
 M=missing, 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



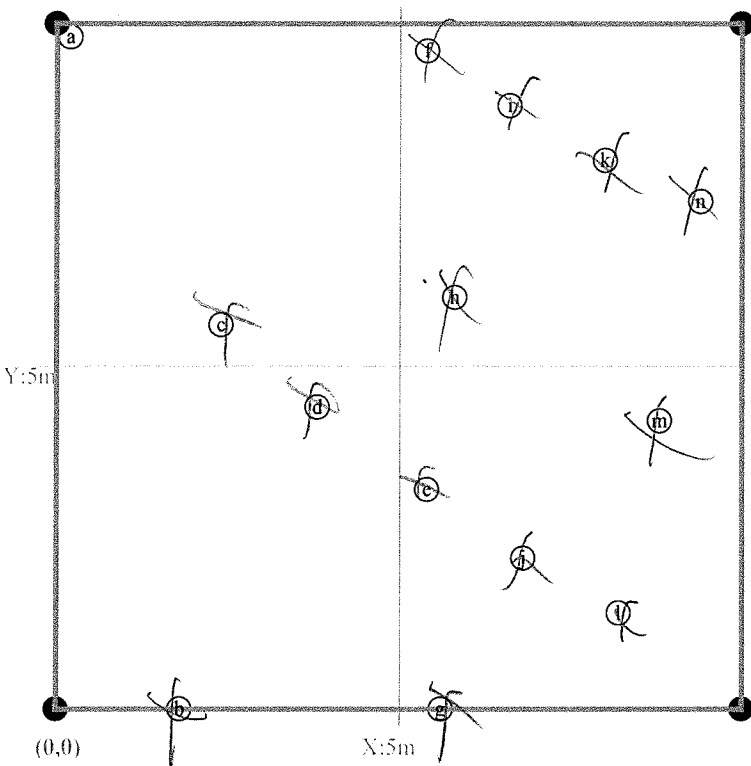
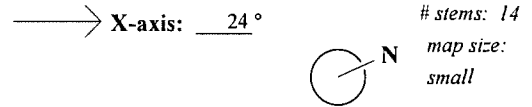
<b>Plot (continued): 100046-01-0012</b>				Oct 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species												
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm												
Species Name	c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH			
		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)	
DIVI		—				●						
LIST		—	5			● ●	● ●		● ●			
BENI		—	5									
		—										
		—										
		—										
		—										

Explanation of cut-off & subsampling\*\*:

\*\*Required if cut-off >10cm or subsample ? 100%.  1  2  3  4  5  6  7  8  9  10 Form WS2, ver 9.1

Map of stems on plot 100046-01-0012



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 24  
 \*VIGOR: 4=excellent, 3=good, 2=fair, \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSeCts, GAME, LIVESTock, Other/Unknown  
 I=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.  
 \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS-EEP Entry Tool ver. 2.3.1

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0013**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role:

Date last planted:

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Oct 2022 Data			THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	NON PRACED	Height 1cm*	DBH 1 cm	Re- sprout	Vigor*	Damage*	Notes
302	Quercus rubra	(a)	R	0.3	0.5	210.0	0.6	<input type="checkbox"/>	190	0.4	<input type="checkbox"/>	3		
303	Quercus phellos	(b)	R	0.4	2.1	100.0		<input type="checkbox"/>	105		<input type="checkbox"/>	1		
307	Fraxinus pennsylvanica	(c)	R	0.9	8.0	150.0	0.3	<input type="checkbox"/>	105		<input checked="" type="checkbox"/>			
308	Fraxinus pennsylvanica	(d)	R	1.1	9.6	102.0	DBH?	<input type="checkbox"/>	105		<input type="checkbox"/>			
310	Quercus alba	(f)	R	3.7	7.4	60.0		<input type="checkbox"/>	80	-	<input type="checkbox"/>			
313	Quercus phellos	(e)	R	3.7	2.3	63.0		<input type="checkbox"/>	70	-	<input type="checkbox"/>			
314	Quercus alba	(g)	R	3.8	0.7	65.0		<input type="checkbox"/>	100	-	<input type="checkbox"/>			
316	Quercus nigra	(i)	R	6.8	2.0	130.0	DBH?	<input type="checkbox"/>	190	0.4	<input type="checkbox"/>			
319	Quercus phellos	(h)	R	6.7	7.4	300.0	1.5	<input type="checkbox"/>	320	1.2	<input type="checkbox"/>			
321	Liriodendron tulipifera	(j)	R	6.9	9.9	340.0	1.9	<input type="checkbox"/>	400	2.5	<input type="checkbox"/>			
322	Quercus alba	(o)	R	9.9	7.8	270.0	1.4	<input type="checkbox"/>	240	0.8	<input checked="" type="checkbox"/>			
323	Platanus occidentalis	(n)	R	9.7	6.3	160.0	0.2	<input type="checkbox"/>	160	0.3	<input type="checkbox"/>			
324	Platanus occidentalis	(m)	R	9.5	4.4	110.0	DBH?	<input type="checkbox"/>	100	-	<input checked="" type="checkbox"/>			
325	Platanus occidentalis	(l)	R	9.5	2.6	170.0	0.4	<input type="checkbox"/>	210	0.8	<input type="checkbox"/>			
326	Platanus occidentalis	(k)	R	9.4	0.7	190.0	0.4	<input type="checkbox"/>	220	0.9	<input type="checkbox"/>			

# stems: 15 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 25

\*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, HURRricane, 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

<b>Plot (continued): 100046-01-0013</b>				Oct 2022 Data			THIS YEAR'S DATA							
ID	Species	map char	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species										
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm										
Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)
LIST										
BLACK CHERRY										

Explanation of cut-off & subsampling\*\*:

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

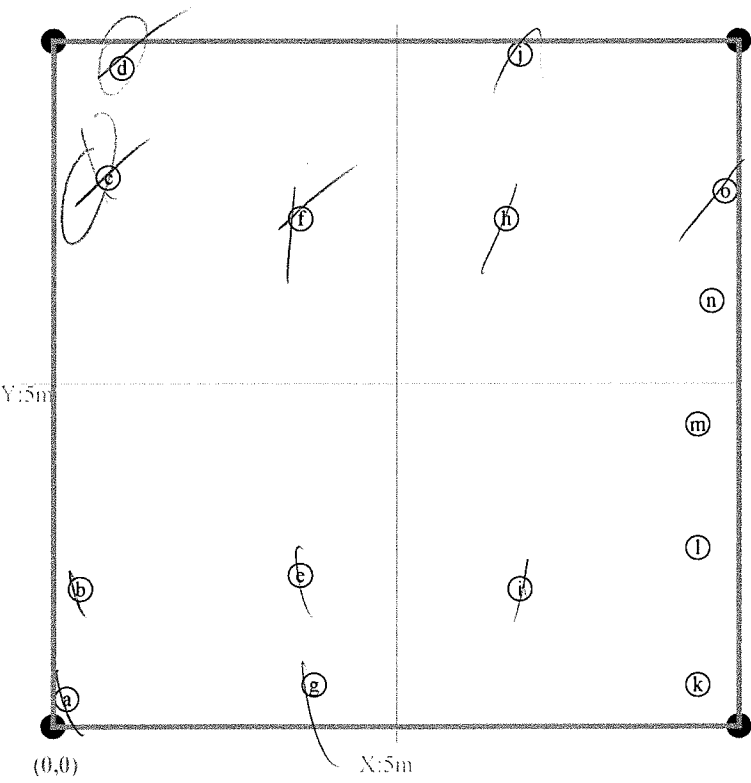


Form WS2, ver 9.1

Map of stems on plot 100046-01-0013

X-axis: 12°

# stems: 15  
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. 26  
 \*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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0014**

VMD Year (1-5):  Date:  -  /

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  (dec. deg. or m)

Longitude or UTM-E:

Coordinate Accuracy (m):

Plot Dimensions: X:  Y:

Datum:   
UTM Zone:   
X-Axis bearing (deg):

Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role:

Date last planted:

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

*Plot being tagged over by Loney Smith (10)*

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Oct 2022 Data		*PWS	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
329	Quercus phellos	(a)	R	0.3	0.6	70.0		<input type="checkbox"/>	80		<input type="checkbox"/>	3		
330	Quercus rubra	(d)	R	1.7	0.6	62.0		<input type="checkbox"/>	86		<input type="checkbox"/>			
331	Quercus rubra	(h)	R	3.3	0.6	115.0	DBH?	<input type="checkbox"/>	160	0.3	<input type="checkbox"/>			
333	Quercus phellos	(o)	R	6.2	0.6	151.0	0.2	<input type="checkbox"/>	200	0.7	<input type="checkbox"/>			Wings
334	Quercus phellos	(s)	R	7.8	0.6	72.0		<input type="checkbox"/>	90		<input type="checkbox"/>			
337	Platanus occidentalis	(t)	R	7.8	3.0	112.0	DBH?	<input type="checkbox"/>	113		<input type="checkbox"/>			
338	Quercus phellos	(p)	R	6.2	3.0	93.0		<input type="checkbox"/>	105		<input type="checkbox"/>			
339	Quercus phellos	(k)	R	4.7	3.0	160.0	0.4	<input type="checkbox"/>	210		<input type="checkbox"/>			
340	Quercus phellos	(i)	R	3.2	3.0	310.0	2.6	<input type="checkbox"/>	400	3.0	<input type="checkbox"/>			
341	Quercus phellos	(e)	R	1.6	3.0	142.0	0.2	<input type="checkbox"/>	20		<input type="checkbox"/>	2		RESPROUT
342	Quercus phellos	(c)	R	0.8	5.8	215.0	1.2	<input type="checkbox"/>	310	1.8	<input type="checkbox"/>	3		
343	Quercus phellos	(g)	R	2.2	5.8	193.0	0.7	<input type="checkbox"/>	260	1.3	<input type="checkbox"/>			
345	Quercus phellos	(n)	R	5.7	5.8	195.0	1.6	<input type="checkbox"/>	250	1.0	<input type="checkbox"/>			
346	Quercus nigra	(r)	R	7.5	5.8	96.0		<input type="checkbox"/>	200	1.0	<input type="checkbox"/>			
351	Platanus occidentalis	(i)	R	3.5	8.0	185.0	0.4	<input type="checkbox"/>	220	0.4	<input type="checkbox"/>			
352	Quercus phellos	(f)	R	1.8	8.2	240.0	1.7	<input type="checkbox"/>	310	1.8	<input type="checkbox"/>			
353	Platanus occidentalis	(b)	R	0.4	8.3	265.0	1.3	<input type="checkbox"/>	340	1.8	<input type="checkbox"/>			
834	Quercus rubra	(q)	R	7.0	4.0	190.0	0.9	<input type="checkbox"/>	210	1.0	<input type="checkbox"/>			Wings
835	Quercus rubra	(m)	R	5.7	4.0	190.0	0.8	<input type="checkbox"/>	265	1.5	<input type="checkbox"/>			
836	Quercus rubra	(l)	R	4.8	3.5	215.0	1.3	<input type="checkbox"/>	260	1.5	<input type="checkbox"/>			

# stems: 20 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
Qu ru				210	1.3			

\*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, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.

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

Plot (continued): **100046-01-0014**

Oct 2022 Data

THIS YEAR'S DATA

ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes
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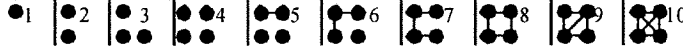
**Natural Woody Stems - tallied by species**

Explanation of cut-off & subsampling\*\*:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	<input checked="" type="checkbox"/> Sub-seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)	

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

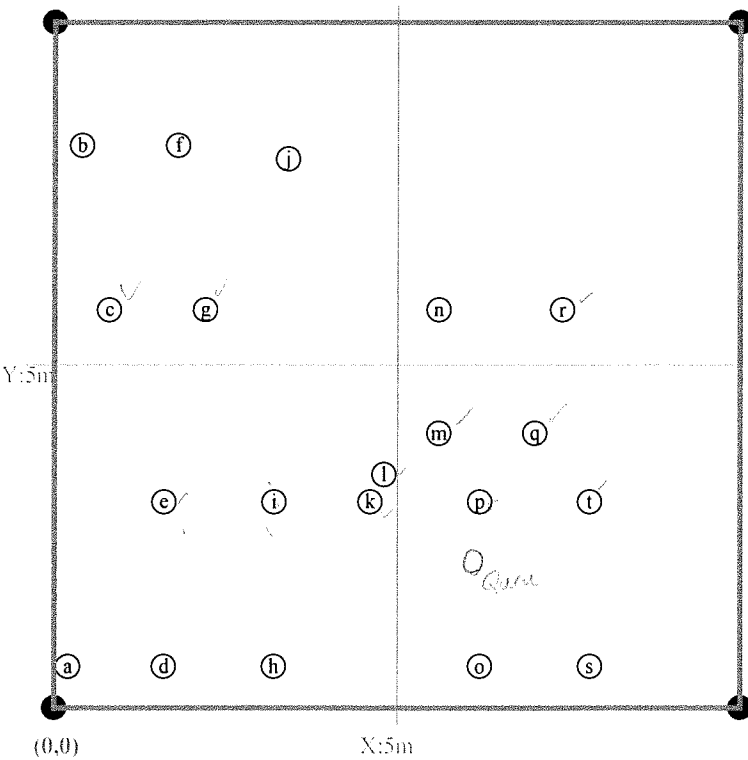


Form WS2, ver 9.1

Map of stems on plot **100046-01-0014**

X-axis: 278°

# stems: 20  
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. 28  
 \*VIGOR: 4=excellent, 3=good, 2=fair, \*DAMAGE: REMOval, CUT, MOWing, BEAVer, DEER, RODents, INSEcts, GAME, LIVESTock, Other/Unknown  
 l=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.  
 \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS-EEP Entry Tool ver. 2.3.1

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0015**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

(dec. deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role:

Date last planted:

New planting date m/yy?

Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Oct 2022 Data		Vigor*	THIS YEAR'S DATA				
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*
356	Quercus phellos	(c)	R	2.4	1.0	41.0			42	-		3	
357	Quercus phellos	(e)	R	4.0	1.0	36.0			50	-			
358	Quercus phellos	(i)	R	6.0	1.0	45.0			X	X		X	
361	Fraxinus pennsylvanica	(m)	R	9.8	5.6	90.0			160	0.2			
363	Quercus rubra	(j)	R	6.0	5.6	70.0			X	X		X	
364	Quercus rubra	(f)	R	4.0	5.8	50.0			X	X		X	
367	Platanus occidentalis	(a)	R	0.2	9.8	130.0	DBH?		120	0.2			
368	Platanus occidentalis	(b)	R	1.3	9.8	600.0	4.2		700	5.0			
369	Platanus occidentalis	(d)	R	2.7	9.8	325.0	2.9		350	0.5			
370	Platanus occidentalis	(g)	R	4.2	9.8	450.0	3.2		500	0.8			
371	Platanus occidentalis	(h)	R	5.5	9.8	200.0	1.1		210	0.2			
372	Platanus occidentalis	(k)	R	7.1	9.8	220.0	1.4		230	0.3			
373	Platanus occidentalis	(l)	R	8.5	9.8	280.0	1.3		300	0.5			
374	Quercus phellos	(n)	R	9.9	9.8	80.0			85	-			

# stems: 14 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
FRPE	(1)			120				
FRPE	(2)			160				
FRPE	(3)			910				

\*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=unlikely to survive year, 0=dead,

ANIMAL, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUGHT, STORM, HURRricane, DISeased, VINE

M=missing.

Strangulation, UNKNown, specify other.

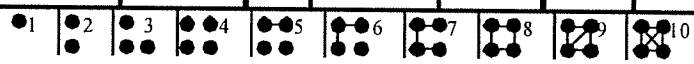
\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.

Natural Woody Stems - tallied by species										
Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)
FRPE										
LEST										
AUKU										

Explanation of cut-off & subsampling\*\*:

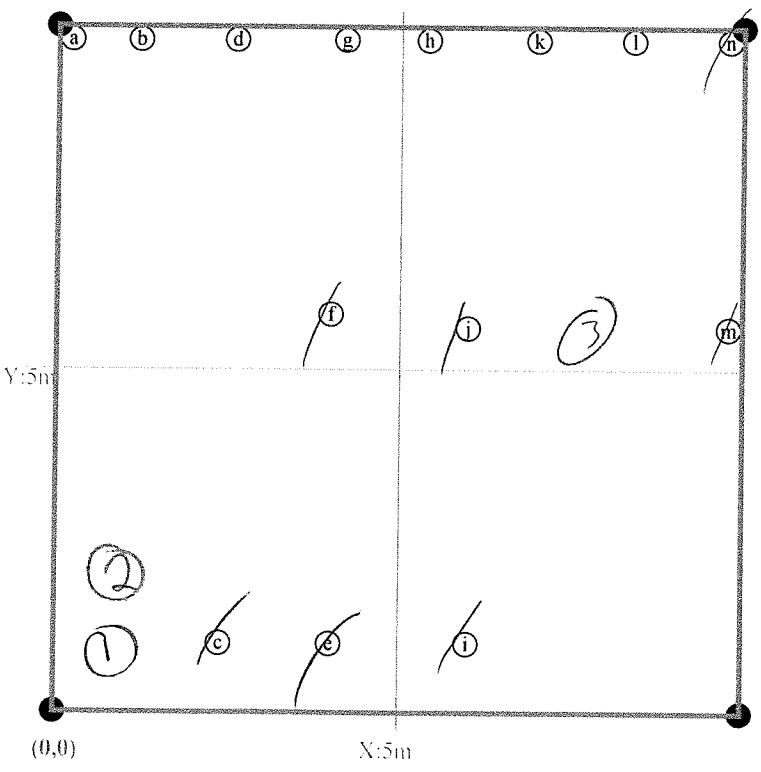
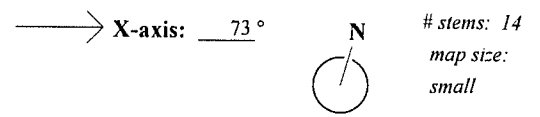
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

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



Form WS2, ver 9.1

Map of stems on plot **100046-01-0015**



\*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

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

Strangulation, UNKNown, specify other.

p. 30

Printed in the CVS-EEP Entry Tool ver. 2.3.1

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0016**

VMD Year (1-5):  Date:

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role:

Date last planted:

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		Notes	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
377	Quercus phellos	(a)	R	0.6	0.5	170.0	0.3		200	0.3		3		
379	Quercus rubra	(b)	R	1.0	8.8	40.0			45	-				
380	Quercus rubra	(c)	R	1.2	7.2	Missing			X	X		X		
382	Quercus rubra	(d)	R	2.2	3.7	Missing			X	X		X		
383	Quercus rubra	(f)	R	3.2	0.6	60.0			65	-				
385	Quercus alba	(j)	R	5.8	2.4	115.0	DBH?		155	0.3				
386	Quercus alba	(i)	R	5.1	4.1	215.0	0.8		260	1.2				
387	Liriodendron tulipifera	(h)	R	4.4	5.8	240.0	1.3		330	2.0				
388	Quercus alba	(g)	R	3.7	7.5	165.0	0.2		240	1.1				
389	Quercus alba	(e)	R	3.0	9.5	130.0	DBH?		210	1.2				
390	Quercus phellos	(k)	R	6.6	9.9	185.0	0.3		230	1.2				
391	Quercus phellos	(l)	R	6.9	8.3	142.0	0.1		200	0.4				
392	Quercus phellos	(m)	R	7.4	6.2	155.0	0.2		195	0.3				
393	Quercus alba	(n)	R	8.0	4.3	50.0			205	0.5				
394	Quercus phellos	(o)	R	8.7	2.3	80.0			40	-		X		
395	Quercus phellos	(p)	R	9.3	0.9	80.0			X	X		X		
396	Quercus phellos	(q)	R	9.4	9.4	260.0	1.1		320	1.5				

# stems: 17 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 31

\*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

\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. ANIMAL, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRICane, DISeased, VINE Strangulation, UNKNKnown, specify other.

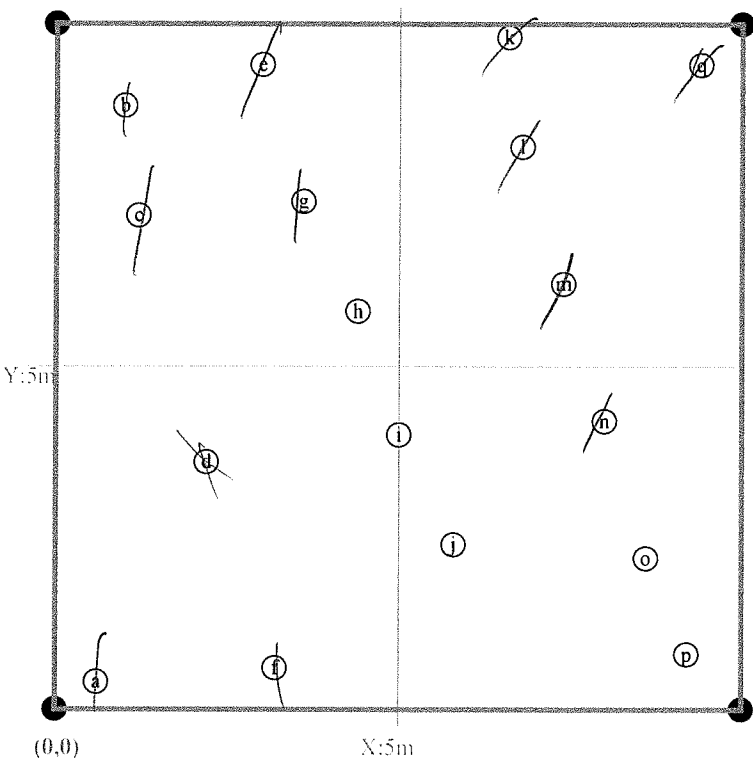
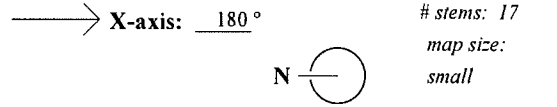
Printed in the CVS-EFP Entry Tool ver. 2.3.1



Natural Woody Stems - tallied by species										
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm										
Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)
LIST	—				—					
DIU	—				—					
	—				—					
	—				—					
	—				—					
	—				—					
	—				—					

\*\*Required if cut-off >10cm or subsample ? 100%. ●1 ●2 ●3 ●●4 ●●●5 ●●●●6 ●●●●7 ●●●●8 ●●●●9 ●●●●10 Form WS2, ver 9.1

Map of stems on plot **100046-01-0016**



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 32  
 \*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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0017**

VMD Year (1-5):  Date:  -  /

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?  / \_\_\_\_\_

Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		VIGOR*	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
400	Quercus phellos	d	R	0.6	3.6	157.0	0.2	<input type="checkbox"/>	290	0.8	<input type="checkbox"/>	3		
401	Quercus rubra	e	R	0.6	6.5	40.0		<input type="checkbox"/>	40		<input type="checkbox"/>	3		
402	Quercus rubra	a	R	0.5	8.1	90.0		<input type="checkbox"/>	90		<input type="checkbox"/>	1		
403	Quercus phellos	b	R	0.5	9.9	108.0	DBH?	<input type="checkbox"/>	190	0.5	<input type="checkbox"/>	3		
404	Quercus alba	j	R	3.5	9.7	Missing		<input type="checkbox"/>	180	0.2	<input type="checkbox"/>	1		REMOVED
405	Quercus alba	k	R	3.6	7.9	75.0		<input type="checkbox"/>	180	0.3	<input type="checkbox"/>			
407	Quercus alba	h	R	3.5	4.4	60.0		<input type="checkbox"/>	101		<input type="checkbox"/>			
408	Quercus alba	g	R	3.3	2.5	140.0	0.1	<input type="checkbox"/>	176	0.2	<input type="checkbox"/>			
409	Quercus alba	f	R	3.2	0.7	116.0	DBH?	<input type="checkbox"/>	210	1.0	<input type="checkbox"/>			
410	Quercus alba	l	R	5.9	1.2	240.0	0.9	<input type="checkbox"/>	240	2.5	<input type="checkbox"/>			
413	Quercus rubra	o	R	5.8	9.9	Missing		<input type="checkbox"/>	90		<input type="checkbox"/>			REMOVED
418	Quercus phellos	r	R	9.0	9.9	200.0	1.0	<input type="checkbox"/>	320	1.1	<input type="checkbox"/>			
419	Betula nigra	s	R	9.8	8.5	370.0	1.4	<input type="checkbox"/>	500	3.7	<input type="checkbox"/>			
420	Quercus rubra	p	R	8.2	0.7	78.0		<input type="checkbox"/>	120		<input type="checkbox"/>			
1644	Quercus alba	c	R	0.6	0.5	30.0		<input type="checkbox"/>	50		<input type="checkbox"/>			
1645	Quercus rubra	i	R	3.5	6.5	56.0		<input type="checkbox"/>	99		<input type="checkbox"/>			
1646	Quercus rubra	m	R	5.9	2.6	63.0		<input type="checkbox"/>	75		<input type="checkbox"/>			
1647	Quercus rubra	n	R	5.9	6.5	55.0		<input type="checkbox"/>	145		<input type="checkbox"/>			
1648	Quercus rubra alba	q	R	8.3	2.5	50.0		<input type="checkbox"/>	75		<input type="checkbox"/>			

# stems: 19 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1cm*	DBH 1 cm	Vigor*	Damage*	Notes
Quercus nigra				60				

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 33

\*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, HURRricane, 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

<b>Plot (continued): 100046-01-0017</b>				Sep 2022 Data			THIS YEAR'S DATA							
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	Notes	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species														
Species Name	c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH					
		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)			

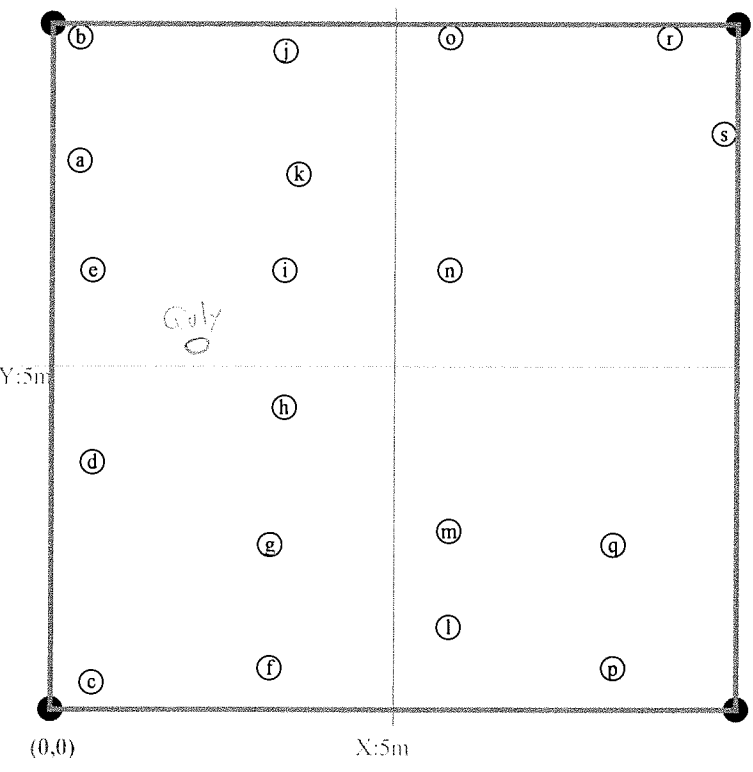
Explanation of cut-off & subsampling\*\*

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

\*\*Required if cut-off >10cm or subsample ? 100%. Form WS2, ver 9.1

Map of stems on plot 100046-01-0017

X-axis: 0° # stems: 19  
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. 34  
 \*VIGOR: 4=excellent, 3=good, 2=fair, \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSeCts, GAME, LIVESTock, Other/Unknown  
 I=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.  
 \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS-EEP Entry Tool ver. 2.3.1

<b>Plot (continued): 100046-01-0018</b>				Sep 2022 Data			THIS YEAR'S DATA								
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

<b>Plot 100046-01-0018</b>				Party:		Role:		Date last planted:	
VMD Year (1-5):	5	Date:	9/21/23		JS				New planting date m/yy?
Taxonomic Standard:					SB				<input type="checkbox"/> Check box if plot was not
Taxonomic Standard DATE:									Notes: sampled, specify reason below
Latitude or UTM-N:	35.873122	Datum:	NAD27						
Longitude or UTM-E:	-79.856008	UTM Zone:	17N						
Coordinate Accuracy (m):	0.5	X-Axis bearing (deg):	282						
Plot Dimensions: X:	10	Y:	10	<input type="checkbox"/> Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)					

				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes

730	Platanus occidentalis	Ⓞ	R	9.0	0.4	135.0	DBH?	167	.2	<input type="checkbox"/>	3		
732	Quercus alba	①	R	7.2	2.2	67.0		66		<input type="checkbox"/>	3		
733	Quercus alba	①	R	5.7	1.9	90.0		108		<input type="checkbox"/>	3		
734	Quercus alba	①	R	4.3	1.7	60.0		91		<input type="checkbox"/>	2		
735	Quercus alba	①	R	3.0	1.3	62.0		80		<input type="checkbox"/>	2		Browsed
736	Quercus alba	①	R	1.8	1.0	60.0		83		<input type="checkbox"/>	2		
738	Quercus rubra	①	R	0.1	3.6	119.0	DBH?	131		<input type="checkbox"/>	3		
741	Liriodendron tulipifera	①	R	4.2	4.6	45.0		74		<input type="checkbox"/>	3		
742	Quercus rubra	①	R	5.5	5.0	78.0		70		<input type="checkbox"/>	2		Browsed
743	Quercus phellos	①	R	6.7	5.2	153.0	0.1	215	.3	<input type="checkbox"/>	3		
744	Liriodendron tulipifera	①	R	8.0	5.7	69.0		105		<input type="checkbox"/>	3		
745	Platanus occidentalis	①	R	9.6	5.9	Missing		45		<input type="checkbox"/>	2		
746	Platanus occidentalis	①	R	8.2	8.3	130.0	DBH?	185	.2	<input type="checkbox"/>	3		
748	Quercus phellos	①	R	5.1	7.7	140.0	0.1	212	.4	<input type="checkbox"/>	3		
750	Quercus rubra	①	R	2.1	7.0	75.0		85		<input type="checkbox"/>	2		Browsed
752	Platanus occidentalis	①	R	1.0	9.4	122.0	DBH?	176	.2	<input type="checkbox"/>	3		

# stems: 16 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubing, R=bare Root, M=Mechanically, U=Unknown p. 1

\*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.

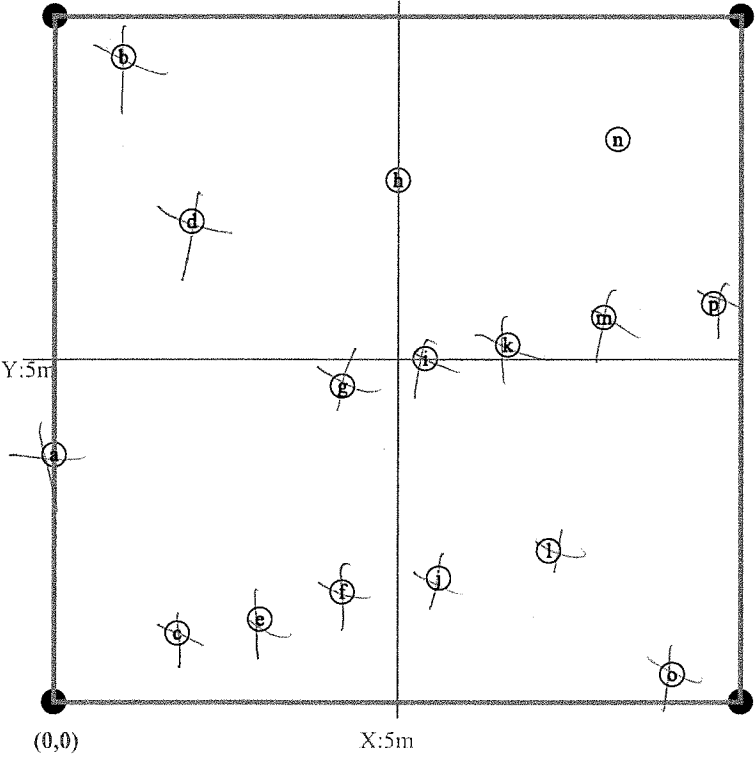
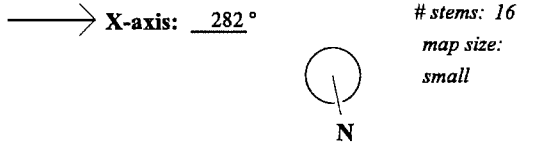
<b>Plot (continued): 100046-01-0018</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

**Natural Woody Stems - tallied by species**  
 Explanation of cut-off & subsampling\*\*:  
 Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	Sub-seed c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)

\*\*Required if cut-off >10cm or subsample ? 100%. ●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

Map of stems on plot 100046-01-0018



\*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 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 Entry Tool ver. 2.5.0

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0019** Party: \_\_\_\_\_ Role: \_\_\_\_\_ Date last planted: \_\_\_\_\_

VMD Year (1-5):  Date:  -

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

New planting date m/yy?   Check box if plot was not  
Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
756	Quercus alba	t	R	9.8	0.9	130.0	DBH?	203	2	<input type="checkbox"/>	3		
757	Quercus rubra	o	R	7.0	1.5	20.0		29		<input type="checkbox"/>	2	Browsed	
758	Quercus rubra	k	R	5.5	1.9	30.0		32		<input type="checkbox"/>	3		
759	Quercus alba	g	R	3.7	2.3	123.0	DBH?	156	1	<input type="checkbox"/>	3		
761	Quercus alba	a	R	0.7	2.8	112.0	DBH?	192	1	<input type="checkbox"/>	3		
763	Quercus phellos	d	R	2.7	5.3	215.0	0.4	280	1.2	<input type="checkbox"/>	3		
764	Quercus rubra	h	R	4.3	5.0	135.0	DBH?	215	1.5	<input type="checkbox"/>	3		
778	Quercus phellos	l	R	5.7	4.6	240.0	0.9	300	3.0	<input type="checkbox"/>	3		
765	Quercus nigra	p	R	7.1	4.2	175.0	0.3	290	1.5	<input type="checkbox"/>	3		
766	Betula nigra	r	R	8.7	3.5	300.0	1.3	390	3.0	<input type="checkbox"/>	3		
767	Platanus occidentalis	s	R	9.4	7.4	260.0	1.2	350	2.0	<input type="checkbox"/>	3		
768	Quercus alba	q	R	7.5	8.0	120.0	DBH?	163	0.8	<input type="checkbox"/>	3		
769	Platanus occidentalis	m	R	5.8	8.0	195.0	0.7	255	1.0	<input type="checkbox"/>	3		
770	Platanus occidentalis	i	R	4.4	8.0	310.0	1.6	400	3.0	<input type="checkbox"/>	3		
771	Quercus rubra	e	R	2.6	7.8	40.0		64		<input type="checkbox"/>	3		
772	Liriodendron tulipifera	b	R	1.1	7.8	87.0		97		<input type="checkbox"/>	3		
773	Fraxinus pennsylvanica	c	R	1.2	8.7	100.0		120		<input type="checkbox"/>	3		
774	Fraxinus pennsylvanica	f	R	2.6	8.7	129.0	DBH?	140	1	<input type="checkbox"/>	3		
775	Fraxinus pennsylvanica	i	R	4.2	8.7	76.0		80		<input type="checkbox"/>	2		
776	Fraxinus pennsylvanica	n	R	6.3	8.7	83.0		85		<input type="checkbox"/>	2	Browsed	

# stems: 20 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
QUAL	*			185				

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubing, 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.  
 \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS Entry Tool ver. 2.5.0

<b>Plot (continued): 100046-01-0019</b>				Sep 2022 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

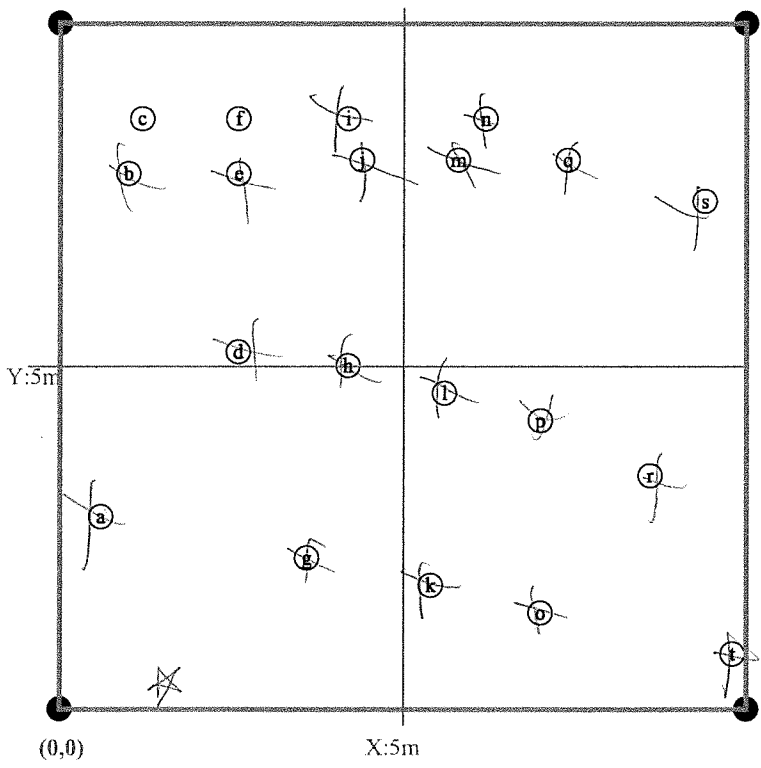
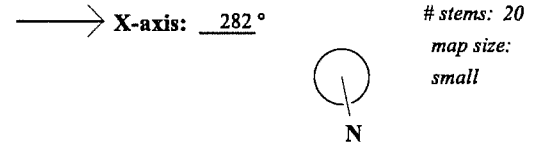
<b>Natural Woody Stems - tallied by species</b>														
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm														
Species Name	c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH					
		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)			

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

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

Map of stems on plot 100046-01-0019



\*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 ANIMAL, Human TRAMPLED, Site Too WET, Site Too DRY, FLOOD, DROUGHT, STORM, HURRICANE, DISEASED, VINE Strangulation, UNKNOW, specify other.

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

Printed in the CVS Entry Tool ver. 2.5.0

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0020** Party: JS SB Role: Date last planted: New planting date m/yy? 1  
 VMD Year (1-5): 5 Date: 9/21/23 - 1/1/24  
 Taxonomic Standard: Taxonomic Standard DATE:  
 Latitude or UTM-N: 35.872895 Datum: NAD27  
 (dec.deg. or m) Longitude or UTM-E: -79.857167 UTM Zone: 17N  
 Coordinate Accuracy (m): 0.5 X-Axis bearing (deg): 177  
 Plot Dimensions: X: 10 Y: 10  Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)  
 Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
784	Quercus phellos	(a)	R	0.3	7.1	101.0	DBH?	161	.1	<input type="checkbox"/>	3		
792	Platanus occidentalis	(c)	R	3.7	4.7	125.0	DBH?	194	.2	<input type="checkbox"/>	3		
793	Platanus occidentalis	(d)	R	3.7	6.1	130.0	DBH?	196	.2	<input type="checkbox"/>	3		
795	Quercus phellos	(b)	R	3.4	9.7	150.0	0.2	260	.8	<input type="checkbox"/>	3		
796	Betula nigra	(g)	R	6.2	9.9	143.0	0.1	230	.1	<input type="checkbox"/>	3		
797	Quercus rubra	(f)	R	6.3	8.7	40.0		38		<input type="checkbox"/>	2	browseed	
798	Quercus nigra	(e)	R	6.3	6.4	80.0		93		<input type="checkbox"/>	3		
799	Quercus phellos	(h)	R	6.7	2.6	160.0	0.3	230	.5	<input type="checkbox"/>	3		
800	Quercus phellos	(i)	R	6.9	1.1	151.0	0.2	240	.5	<input type="checkbox"/>	3		
801	Betula nigra	(l)	R	8.4	1.3	165.0	0.2	190	.3	<input type="checkbox"/>	3		
802	Betula nigra	(k)	R	7.8	5.1	150.0	0.2	203	.4	<input type="checkbox"/>	3		
803	Quercus rubra	(j)	R	7.4	9.3	25.0		39		<input type="checkbox"/>	2		
804	Platanus occidentalis	(n)	R	8.8	9.1	165.0	0.3	191	.8	<input type="checkbox"/>	3		
805	Platanus occidentalis	(m)	R	8.8	7.0	230.0	1.0	310	2.5	<input type="checkbox"/>	3		
807	Platanus occidentalis	(o)	R	9.4	2.4	112.0	DBH?	158	.8	<input type="checkbox"/>	3		
808	Platanus occidentalis	(q)	R	9.8	0.7	60.0		75		<input type="checkbox"/>	3		
809	Platanus occidentalis	(r)	R	9.9	5.0	165.0	0.4	240	.8	<input type="checkbox"/>	3		
810	Betula nigra	(p)	R	9.7	8.4	170.0	0.3	230	.5	<input type="checkbox"/>	3		

# stems: 18 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
FRPE	1			95				
FRPE	2			69				
FRPE	3			90				

\*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.  
 \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS Entry Tool ver. 2.5.0



<b>Plot (continued): 100046-01-0020</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

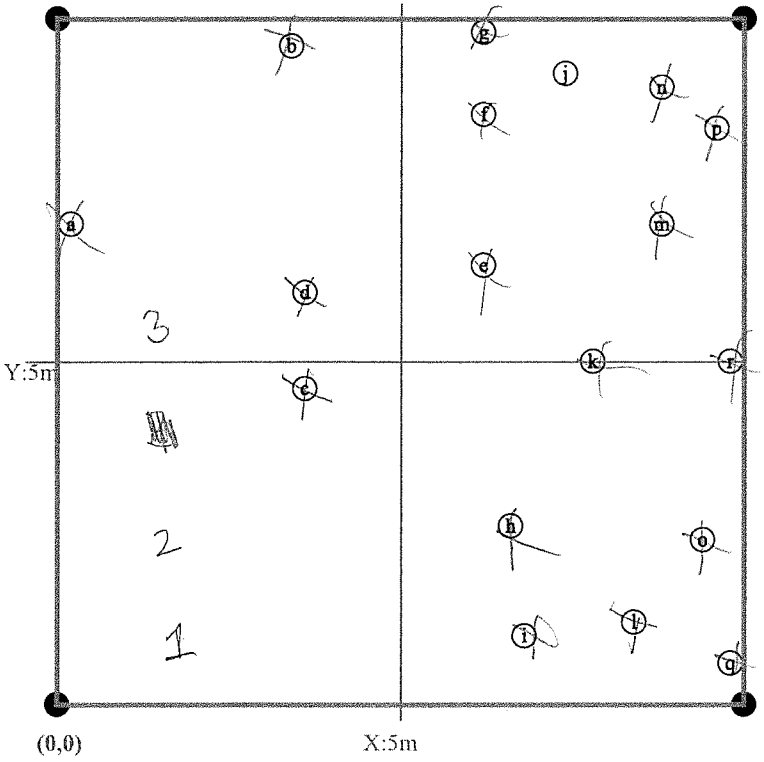
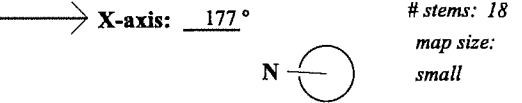
Natural Woody Stems - tallied by species											Explanation of cut-off & subsampling**.		
Species Name	c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH				
		Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-	5-	=10 (write DBH)		
FRPF					2								
DIVI													

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

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

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

Map of stems on plot 100046-01-0020



\*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, 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 Entry Tool ver. 2.5.0

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0021**

VMD Year (1-5):  Date:

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
812	Platanus occidentalis	①	R	5.7	0.6	101.0	DBH?	144	0.1	<input type="checkbox"/>	3		
813	Quercus alba	②	R	7.0	1.2	117.0	DBH?	180	0.2	<input type="checkbox"/>	3		
814	Quercus alba	③	R	7.9	1.7	70.0		118		<input type="checkbox"/>	3		
815	Quercus rubra	④	R	9.1	2.4	47.0		57		<input type="checkbox"/>	2		
816	Betula nigra	⑤	R	8.9	5.0	380.0	3.0	446	4.5	<input type="checkbox"/>	3		
818	Betula nigra	⑥	R	6.8	3.8	170.0	0.2	250	1.0	<input type="checkbox"/>	3		
819	Fraxinus pennsylvanica	⑦	R	5.7	3.0	50.0		53		<input type="checkbox"/>	3		
820	Fraxinus pennsylvanica	⑧	R	4.5	2.4	30.0		45		<input type="checkbox"/>	3	Browsed	
822	Betula nigra	⑨	R	2.0	1.7	230.0	0.5	340	2.5	<input type="checkbox"/>	3		
824	Quercus phellos	⑩	R	1.0	3.7	250.0	1.0	290	3.0	<input type="checkbox"/>	3		
825	Quercus <del>phellos</del> rubra	⑪	R	2.2	4.2	70.0		70		<input type="checkbox"/>	3	browsed	
826	Quercus alba	⑫	R	3.3	4.8	67.0		74		<input type="checkbox"/>	3	browsed	
827	Quercus phellos	⑬	R	4.5	5.4	220.0	0.5	265	2.0	<input type="checkbox"/>	3		
829	Quercus phellos	⑭	R	6.8	6.7	54.0		82		<input type="checkbox"/>	3		
832	Betula nigra	⑮	R	6.9	9.6	320.0	1.8	400	4.0	<input type="checkbox"/>	3		
833	Quercus alba	⑯	R	5.2	8.8	87.0		110		<input type="checkbox"/>	3		
835	Quercus rubra	⑰	R	0.5	7.1	127.0	DBH?	205	1.0	<input type="checkbox"/>	3		
836	Betula nigra	⑱	R	1.4	7.7	245.0	1.0	320	3.5	<input type="checkbox"/>	3		
837	Betula nigra	⑲	R	2.2	8.9	245.0	0.8	318	2.5	<input type="checkbox"/>	3		
838	Quercus alba	⑳	R	3.3	9.7	60.0		91		<input type="checkbox"/>	3		

# stems: 20 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1cm*	DBH 1 cm	Vigor*	Damage*	Notes
FRPE	1			58				
DNI	2			34				
FRPE	3			90				

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 7

\*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, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.

\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS Entry Tool ver. 2.5.0

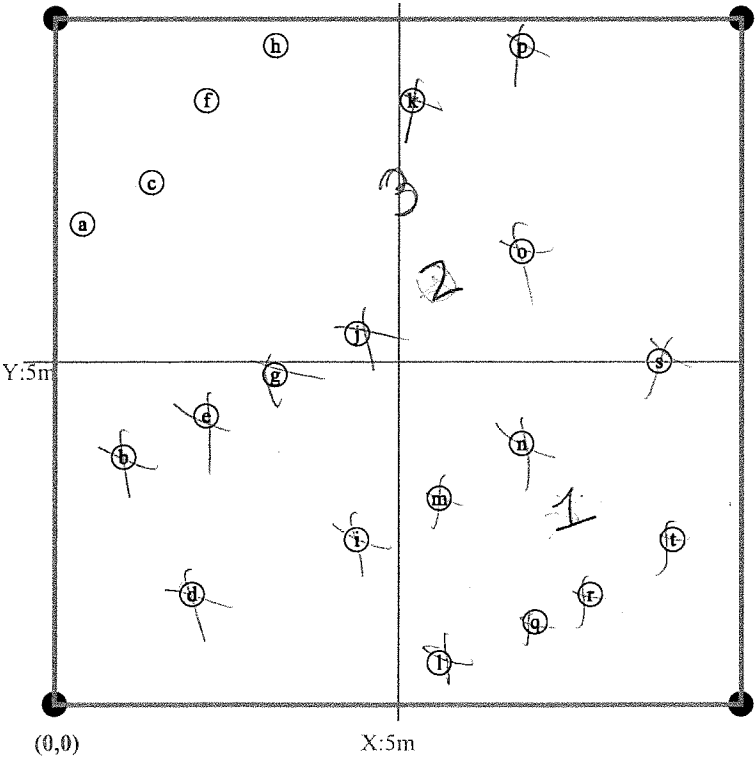
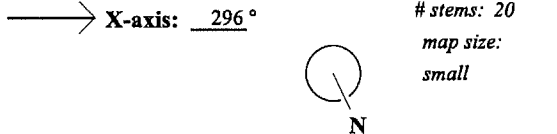
<b>Plot (continued): 100046-01-0021</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

<b>Natural Woody Stems - tallied by species</b>													
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm													
Species Name	c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH				
		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)		

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

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10      Form WS2, ver 9.1

Map of stems on plot 100046-01-0021



\*SOURCE: T=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown      p. 8

\*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 Entry Tool ver. 2.5.0

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0022**

VMD Year (1-5):  Date:  -  /

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?  / \_\_\_\_\_

Check box if plot was not sampled, specify reason below

Notes: \_\_\_\_\_

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re- sprout	Vigor*	Damage*	Notes
840	Platanus occidentalis	(d)	R	2.4	9.2	145.0	0.1	198	0.5	<input type="checkbox"/>	3		
841	Platanus occidentalis	(c)	R	1.5	8.0	200.0	0.4	260	1.0	<input type="checkbox"/>	3		
843	Quercus nigra	(a)	R	0.5	0.5	70.0		90		<input type="checkbox"/>	3		
844	Quercus nigra	(b)	R	1.5	2.0	150.0	0.2	730	0.5	<input type="checkbox"/>	3		
846	Quercus phellos	(e)	R	3.5	5.0	105.0	DBH?	200	0.3	<input type="checkbox"/>	3		
848	Quercus phellos	(f)	R	5.5	7.9	220.0	0.4	290	2.5	<input type="checkbox"/>	3		
849	Quercus phellos	(h)	R	6.4	9.5	90.0		180	0.2	<input type="checkbox"/>	3		
850	Fraxinus pennsylvanica	(l)	R	9.4	8.7	67.0		103		<input type="checkbox"/>	3		
852	Liriodendron tulipifera	(j)	R	8.0	6.3	25.0		X		<input type="checkbox"/>			
858	Quercus phellos	(i)	R	7.3	0.6	35.0		70		<input type="checkbox"/>	3		
859	Quercus phellos	(k)	R	8.2	1.8	75.0		130	0.1	<input type="checkbox"/>	3		
1742	Quercus phellos	(g)	R	5.7	0.3	165.0	0.3	220	0.4	<input type="checkbox"/>	3		

# stems: 12 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
LTU	1			49				

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 9

\*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 Entry Tool ver. 2.5.0

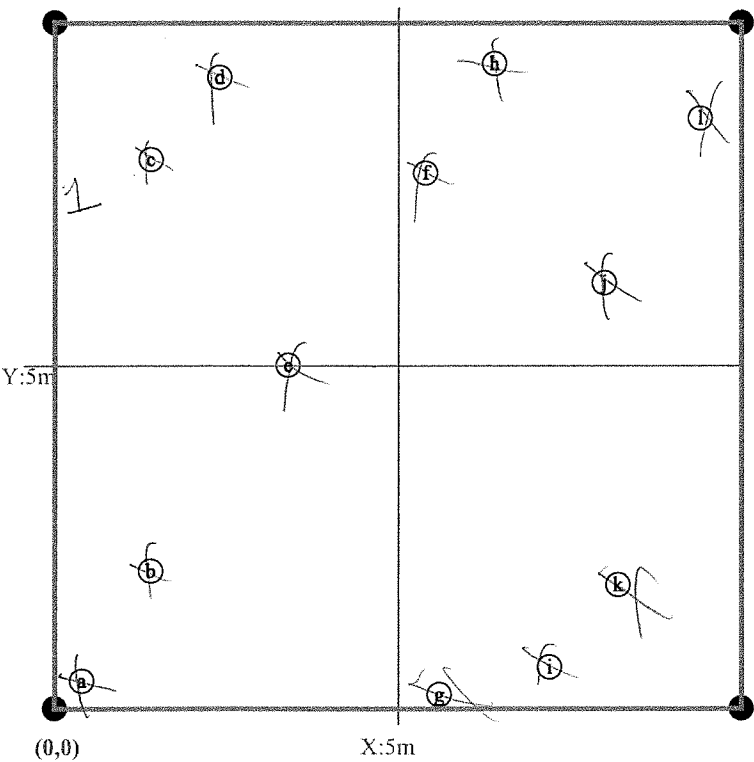
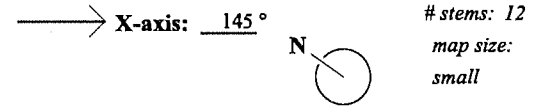
<b>Plot (continued): 100046-01-0022</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species											Explanation of cut-off & subsampling**:		
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):											<input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm		
Species Name	c	SEEDLINGS — HEIGHT CLASSES				SAPLINGS — DBH			TREES — DBH				
		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)		
CEOC				●●●									
FRPF				●									
LIST		●			●								

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

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

Map of stems on plot 100046-01-0022



\*SOURCE: T=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 10

\*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 Entry Tool ver. 2.5.0

Vegetation Monitoring Data (VMD) Datasheet

Please fill in any missing data and correct any errors.

**Plot 100046-01-0023**

VMD Year (1-5):  Date:  -  /

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role: \_\_\_\_\_ Date last planted: \_\_\_\_\_

New planting date m/yy?  / \_\_\_\_\_

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
863	Fraxinus pennsylvanica	(z)	R	9.7	0.5	51.0		71		<input type="checkbox"/>	3		
864	Quercus phellos	(A)	R	9.8	3.6	88.0		182	.2	<input type="checkbox"/>	3		
866	Liriodendron tulipifera	(w)	R	8.2	2.7	Missing		X		<input type="checkbox"/>	0		
867	Liriodendron tulipifera	(u)	R	7.4	1.9	61.0		X		<input type="checkbox"/>	0		
868	Platanus occidentalis	(r)	R	6.5	1.2	100.0		120		<input type="checkbox"/>	3		
869	Platanus occidentalis	(o)	R	5.8	0.6	71.0		86		<input type="checkbox"/>	2		
870	Quercus phellos	(a)	R	0.6	0.4	141.0	0.1	193	.1	<input type="checkbox"/>	3		
871	Quercus phellos	(d)	R	1.7	1.1	69.0		135		<input type="checkbox"/>	3		
872	Platanus occidentalis	(g)	R	2.8	1.8	90.0		108		<input type="checkbox"/>	3		
873	Quercus phellos	(j)	R	3.9	2.5	90.0		190	.2	<input type="checkbox"/>	3		
874	Quercus phellos	(m)	R	4.8	3.2	110.0	DBH?	100	.2	<input type="checkbox"/>	3		
875	Platanus occidentalis	(p)	R	5.9	4.2	120.0	DBH?	170	.5	<input type="checkbox"/>	3		
876	Quercus phellos	(s)	R	6.7	5.1	110.0	DBH?	192	.3	<input type="checkbox"/>	3		
877	Platanus occidentalis	(v)	R	7.7	5.9	96.0		131		<input type="checkbox"/>	3		
878	Quercus phellos	(x)	R	8.6	6.8	103.0	DBH?	192	.4	<input type="checkbox"/>	3		
879	Quercus phellos	(y)	R	9.3	7.7	70.0		121		<input type="checkbox"/>	3		
880	Platanus occidentalis	(B)	R	9.8	8.1	80.0		108		<input type="checkbox"/>	3		
881	Fraxinus pennsylvanica	(t)	R	7.0	9.8	47.0		56		<input type="checkbox"/>	3		
882	Betula nigra	(q)	R	6.1	8.9	Missing		X		<input type="checkbox"/>	0		
883	Quercus alba	(n)	R	5.4	7.9	76.0		95		<input type="checkbox"/>	3		
884	Quercus rubra	(l)	R	4.7	7.0	105.0	DBH?	172	.1	<input type="checkbox"/>	3		
885	Betula nigra	(k)	R	3.8	6.0	90.0		146	.1	<input type="checkbox"/>	3		
886	Betula nigra	(h)	R	3.0	5.4	110.0	DBH?	152	.1	<input type="checkbox"/>	3		
887	Quercus alba	(e)	R	2.2	4.4	62.0		91		<input type="checkbox"/>	3		
888	Quercus alba	(c)	R	1.1	3.5	80.0		92		<input type="checkbox"/>	3		
889	Quercus phellos	(b)	R	0.7	6.6	73.0		160	.1	<input type="checkbox"/>	3		
892	Quercus phellos	(f)	R	2.6	8.6	108.0	DBH?	173	.5	<input type="checkbox"/>	3		
893	Quercus phellos	(i)	R	3.2	9.3	105.0	DBH?	203	.5	<input type="checkbox"/>	3		

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 11

\*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, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.

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

Printed in the CVS Entry Tool ver. 2.5.0

<b>Plot (continued): 100046-01-0023</b>				Sep 2022 Data			THIS YEAR'S DATA								
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

# stems: 28      New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species										
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm										
Species Name	☑ c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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-
FRPE				● ●						

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

●1   ●●2   ●●●3   ●●●●4   ●●●●●5   ●●●●●●6   ●●●●●●●7   ●●●●●●●●8   ●●●●●●●●●10

Form WS2, ver 9.1

\*SOURCE: T=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 12  
 \*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  
 M=missing. Strangulation, UNKNown, specify other.  
 \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS Entry Tool ver. 2.5.0

# Map of stems on plot 100046-01-0023

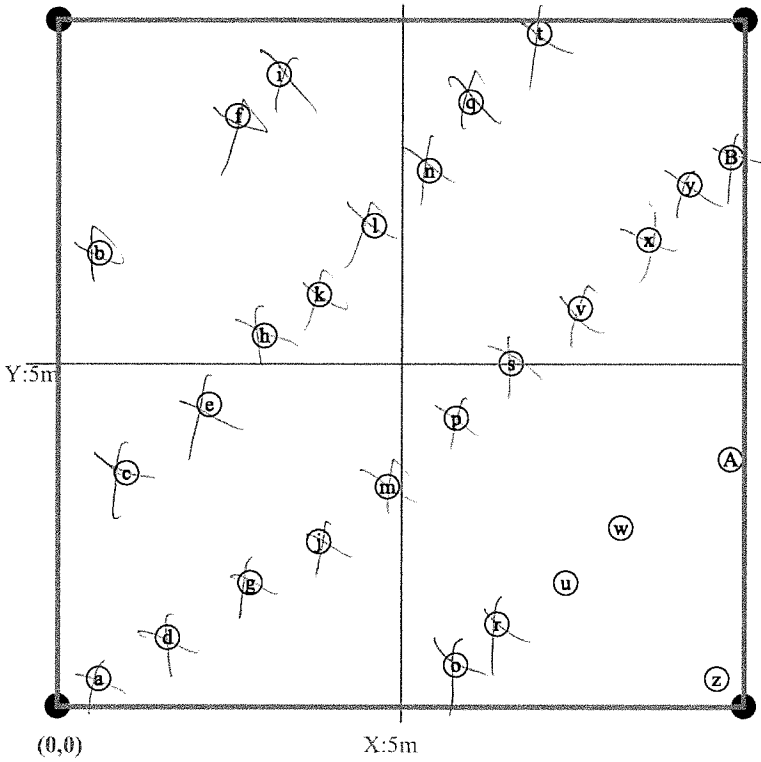
CAPITAL LETTERS represent stems that are different from stems marked with lowercase letters (i.e. "A" is different from "a").

X-axis: 240°

# stems: 28

map size:

small



\*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.



Vegetation Monitoring Data (VMD) Datasheet

Please fill in any missing data and correct any errors.

**Plot 100046-01-0024**

VMD Year (1-5):  Date:  -  /

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role: \_\_\_\_\_ Date last planted: \_\_\_\_\_

New planting date m/yy?   Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
896	Quercus phellos	(a)	R	0.5	2.1	185.0	0.7	250	3.0	<input type="checkbox"/>	3		
897	Quercus phellos	(b)	R	0.7	3.1	124.0	DBH?	230	1.0	<input type="checkbox"/>	3		
900	Liriodendron tulipifera	(c)	R	0.8	6.8	60.0		X		<input type="checkbox"/>	0		
901	Quercus rubra	(d)	R	0.9	8.1	80.0		100		<input type="checkbox"/>	3		
903	Fraxinus pennsylvanica	(k)	R	3.2	9.3	97.0		118		<input type="checkbox"/>	3		
904	Platanus occidentalis	(i)	R	3.3	8.0	101.0	DBH?	122		<input type="checkbox"/>	3		
905	Platanus occidentalis	(i)	R	3.3	6.6	175.0	0.2	225	.8	<input type="checkbox"/>	3		
906	Platanus occidentalis	(h)	R	3.2	5.2	120.0	DBH?	172	.3	<input type="checkbox"/>	3		
907	Quercus phellos	(g)	R	3.2	3.7	117.0	DBH?	210	.3	<input type="checkbox"/>	3		
908	Platanus occidentalis	(f)	R	3.2	2.2	190.0	0.3	218	.5	<input type="checkbox"/>	3		
909	Fraxinus pennsylvanica	(e)	R	3.1	0.7	70.0		80		<input type="checkbox"/>	3		
910	Fraxinus pennsylvanica	(l)	R	5.6	1.2	73.0		90		<input type="checkbox"/>	3		
911	Quercus phellos	(m)	R	5.6	2.6	99.0		188		<input type="checkbox"/>	3		
912	Quercus phellos	(n)	R	5.6	4.1	119.0	DBH?	222	.5	<input type="checkbox"/>	3		
913	Quercus rubra	(o)	R	5.7	5.5	150.0	0.2	288	.5	<input type="checkbox"/>	3		
914	Quercus phellos	(r)	R	5.8	6.9	120.0	DBH?	184	.3	<input type="checkbox"/>	3		
915	Quercus phellos	(p)	R	5.7	8.2	200.0	0.5	210	1.0	<input type="checkbox"/>	3		
916	Quercus rubra	(q)	R	5.7	9.5	86.0		155	.1	<input type="checkbox"/>	3		
919	Quercus phellos	(v)	R	8.6	7.5	135.0	DBH?	218	.3	<input type="checkbox"/>	3		
921	Quercus rubra	(u)	R	8.5	3.5	71.0		71		<input type="checkbox"/>	2	Browsed	
922	Quercus rubra	(t)	R	8.4	2.1	37.0		35		<input type="checkbox"/>	2	Browsed	
923	Quercus phellos	(s)	R	8.1	0.3	190.0	0.3	290	2.5	<input type="checkbox"/>	3		

# stems: 22 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
QUAL	1			101				

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 14

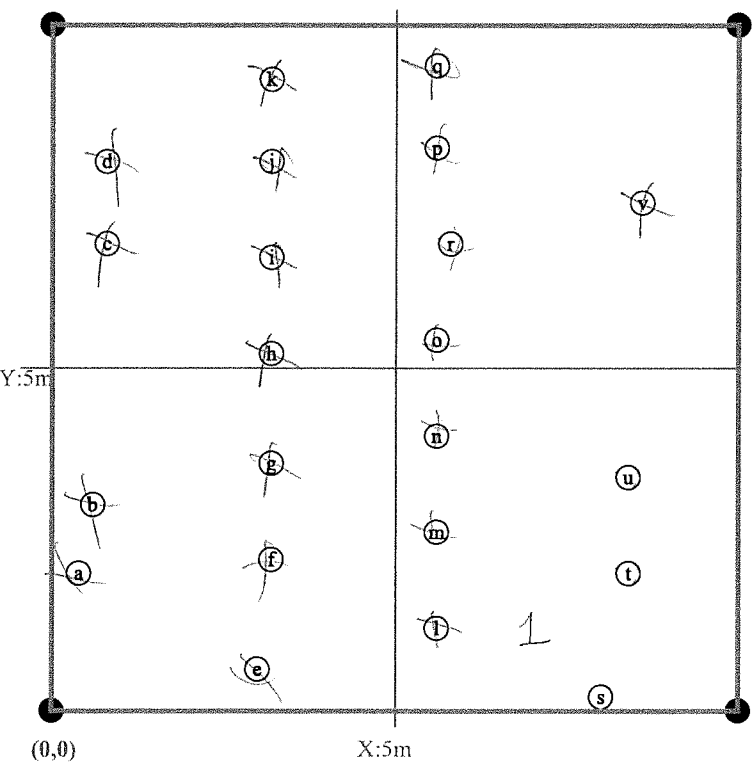
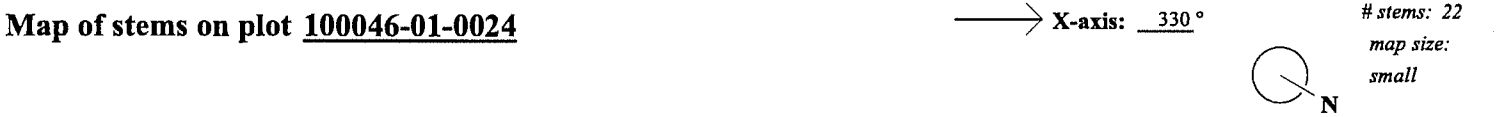
\*VIGOR: 4=excellent, 3=good, 2=fair, 1=unlikely to survive year, 0=dead, M=missing. \*DAMAGE: REMoval, CUT, MOWing, BEAVer, DEER, RODents, INSEcts, GAME, LIVESTock, Other/Unknown ANIMAL, Human TRAMpled, Site Too WET, Site Too DRY, FLOOD, DROUght, STORM, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.

\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS Entry Tool ver. 2.5.0

<b>Plot (continued): 100046-01-0024</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species											Explanation of cut-off & subsampling**:		
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):											<input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm		
Species Name	Sub-seed c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH			=10 (write DBH)		
		10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-	5-				
BAHA			●				●						
Winged Elm			●										

\*\*Required if cut-off >10cm or subsample ? 100%.      ●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●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. 15  
\*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  
M=missing.      Strangulation, UNKNown, specify other.  
\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m.      Printed in the CVS Entry Tool ver. 2.5.0

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0025**

VMD Year (1-5):  Date:  -  /

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?  / \_\_\_\_\_

Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm	Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
925	Quercus phellos	(a)	R	0.4	0.4	200.0	0.6	290	1.0	<input type="checkbox"/>	3		
927	Liriodendron tulipifera	(f)	R	3.3	1.3	152.0	0.2	210	.8	<input type="checkbox"/>	3		
929	Quercus rubra	(m)	R	6.1	1.7	126.0	DBH?	170	.1	<input type="checkbox"/>	3		
930	Quercus phellos	(p)	R	7.4	2.0	155.0	0.2	240	1.0	<input type="checkbox"/>	3		
932	Quercus rubra	(t)	R	9.9	5.0	57.0		66		<input type="checkbox"/>	3		
933	Quercus alba	(s)	R	8.9	4.8	55.0		60		<input type="checkbox"/>	3		
934	Quercus rubra	(q)	R	7.6	4.8	30.0		54		<input type="checkbox"/>	3		
935	Fraxinus pennsylvanica	(n)	R	6.1	4.5	63.0		94		<input type="checkbox"/>	3		
936	Quercus rubra	(j)	R	4.7	4.1	59.0		72		<input type="checkbox"/>	2		
937	Quercus rubra	(g)	R	3.3	3.9	49.0		86		<input type="checkbox"/>	3		
939	Quercus rubra	(b)	R	0.8	3.3	70.0		70		<input type="checkbox"/>	2	Brownd	
940	Quercus rubra	(d)	R	1.5	6.0	50.0		61		<input type="checkbox"/>	3		
941	Quercus rubra	(e)	R	2.8	6.5	60.0		63		<input type="checkbox"/>	2	Brownd	
942	Quercus rubra	(i)	R	4.2	6.7	55.0		60		<input type="checkbox"/>	3		
943	Quercus rubra	(l)	R	5.5	7.0	55.0		61		<input type="checkbox"/>	3		
944	Platanus occidentalis	(o)	R	7.1	7.1	190.0	0.6	240	.8	<input type="checkbox"/>	3		
945	Quercus phellos	(r)	R	8.5	7.2	90.0		172	.4	<input type="checkbox"/>	3		
946	Quercus phellos	(u)	R	9.8	7.3	140.0	0.1	212	.6	<input type="checkbox"/>	3		
947	Fraxinus pennsylvanica	(k)	R	5.1	9.4	65.0		81	.6	<input type="checkbox"/>	3		
948	Quercus alba	(h)	R	3.6	9.3	140.0	0.1	225	.7	<input type="checkbox"/>	3		
949	Quercus alba	(c)	R	0.9	8.9	138.0	0.1	181	.2	<input type="checkbox"/>	3		

# stems: 21 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 16

\*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, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.

\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS Entry Tool ver. 2.5.0

<b>Plot (continued): 100046-01-0025</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

**Natural Woody Stems - tallied by species** Explanation of cut-off & subsampling\*\*:


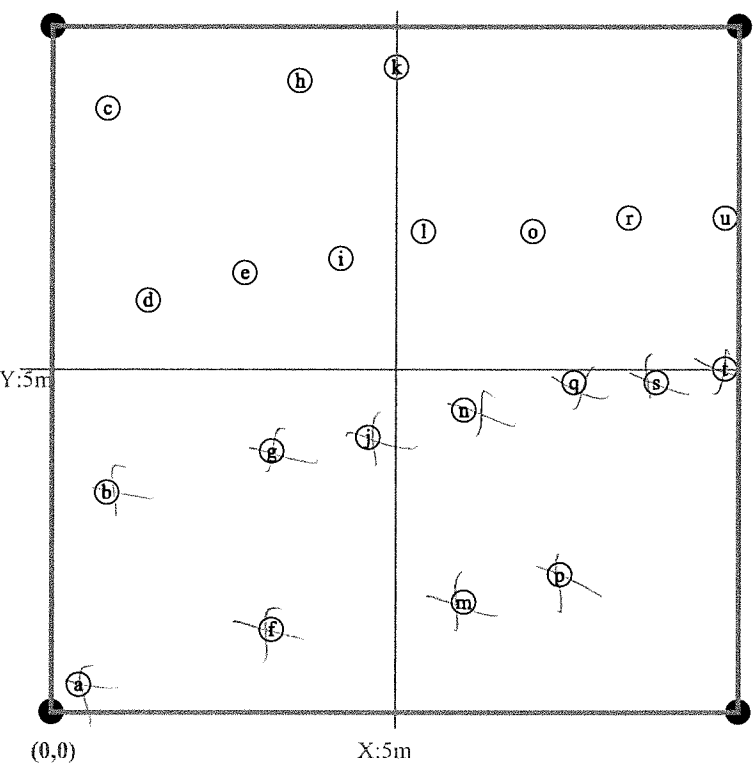
**Height Cut-Off** (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	<input checked="" type="checkbox"/> Sub-seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)
FRPE		10	20	20						
QURV			0							

\*\*Required if cut-off >10cm or subsample ? 100%. ●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

Map of stems on plot 100046-01-0025

→ X-axis: 282° # stems: 21  
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. 17

\*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 Entry Tool ver. 2.5.0

<b>Plot (continued): 100046-01-0026</b>				Sep 2022 Data			THIS YEAR'S DATA									
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	NOV	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

<b>Plot 100046-01-0026</b>				Party:		Role:		Date last planted:	
VMD Year (1-5):	<input type="text" value="5"/>	Date:	<input type="text" value="10/31/23"/>	-	<input type="text" value="1/1"/>	<input type="text" value="LH"/>			New planting date m/yy? <input type="text" value=""/>
Taxonomic Standard:					<input type="text" value="SD"/>				<input type="checkbox"/> Check box if plot was not
Taxonomic Standard DATE:									Notes: sampled, specify reason below
Latitude or UTM-N: (dec.deg. or m)	<input type="text" value="35.861439"/>		Datum: <input type="text" value="NAD27"/>						
Longitude or UTM-E:	<input type="text" value="-79.892888"/>		UTM Zone: <input type="text" value="17N"/>						
Coordinate Accuracy (m):	<input type="text" value="0.5"/>		X-Axis bearing (deg): <input type="text" value="20"/>						
Plot Dimensions: X:	<input type="text" value="10"/>	Y:	<input type="text" value="10"/>	<input type="checkbox"/> Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)					

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		NOV	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
1	Liriodendron tulipifera	(a)	R	0.5	0.7	200.0	0.3	<input type="checkbox"/>	380	1.2	<input type="checkbox"/>	3		
2	Fraxinus pennsylvanica	(h)	R	5.1	0.7	300.0	1.2	<input type="checkbox"/>	370	2.0	<input type="checkbox"/>	1		
3	Platanus occidentalis	(g)	R	3.8	2.1	450.0	3.0	<input type="checkbox"/>	600	6.0	<input type="checkbox"/>	1		
4	Fraxinus pennsylvanica	(e)	R	2.5	3.4	300.0	1.8	<input type="checkbox"/>	390	2.1	<input type="checkbox"/>			
5	Fraxinus pennsylvanica	(c)	R	0.9	4.8	250.0	1.0	<input type="checkbox"/>	290	1.3	<input type="checkbox"/>			
6	Fraxinus pennsylvanica	(b)	R	0.6	9.3	260.0	0.9	<input type="checkbox"/>	350	1.4	<input type="checkbox"/>			
7	Fraxinus pennsylvanica	(d)	R	2.0	7.9	355.0	2.2	<input type="checkbox"/>	380	2.0	<input type="checkbox"/>			
8	Fraxinus pennsylvanica	(f)	R	3.4	6.4	285.0	1.0	<input type="checkbox"/>	390	1.4	<input type="checkbox"/>			
9	Fraxinus pennsylvanica	(i)	R	5.0	5.1	230.0	0.8	<input type="checkbox"/>	300		<input type="checkbox"/>			
10	Fraxinus pennsylvanica	(k)	R	6.4	3.7	Missing		<input type="checkbox"/>	X	X	<input type="checkbox"/>			
11	Fraxinus pennsylvanica	(m)	R	7.8	1.9	310.0	1.0	<input type="checkbox"/>	380	1.7	<input type="checkbox"/>			
12	Fraxinus pennsylvanica	(o)	R	9.0	0.5	280.0	1.0	<input type="checkbox"/>	390	1.5	<input type="checkbox"/>			
13	Quercus phellos	(p)	R	9.9	4.9	135.0	DBH?	<input type="checkbox"/>	240	1.9	<input type="checkbox"/>			
14	Quercus phellos	(n)	R	8.3	6.8	280.0	1.5	<input type="checkbox"/>	380	2.2	<input type="checkbox"/>			
15	Quercus phellos	(l)	R	6.7	8.0	280.0	1.8	<input type="checkbox"/>	400	2.5	<input type="checkbox"/>			
16	Quercus phellos	(j)	R	5.4	9.3	330.0	2.0	<input type="checkbox"/>	450	3.0	<input type="checkbox"/>			

# stems: 16      New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 1  
 \*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, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.  
 \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS-EPP Entry Tool ver. 2.3.1

<b>Plot (continued): 100046-01-0026</b>				Sep 2022 Data			THIS YEAR'S DATA								
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

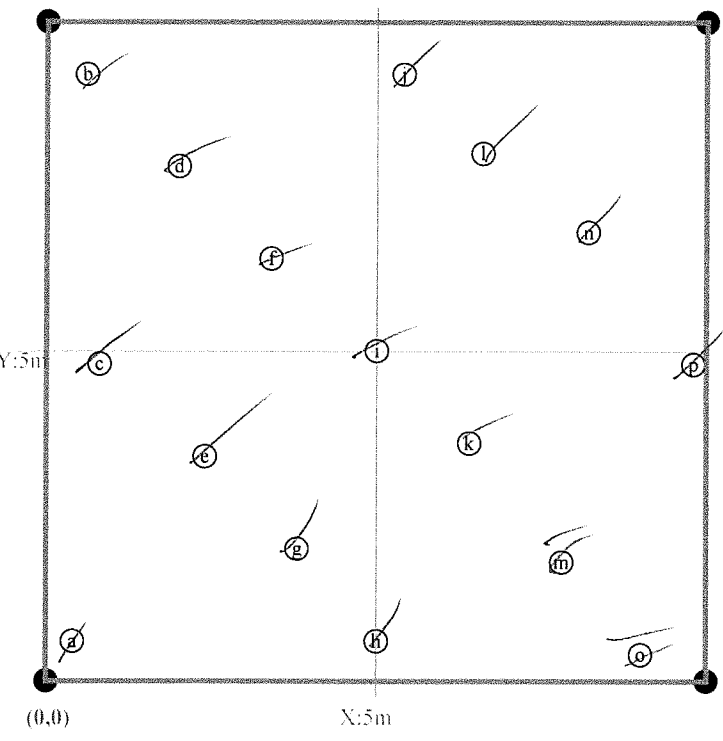
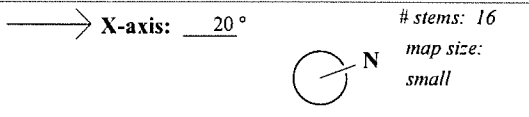
**Natural Woody Stems - tallied by species** Explanation of cut-off & subsampling\*\*:

**Height Cut-Off** (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)
JUVI	—				—					
L1ST	—				—					
FFPA	—				—					
ULAM	—				—					
	—				—					
	—				—					
	—				—					

\*\*Required if cut-off >10cm or subsample ? 100%. ●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

**Map of stems on plot 100046-01-0026**



\*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, \*DAMAGE: REMOval, CUT, MOWing, BEAVer, DEER, RODents, INSEcts, GAME, LIVESTock, Other/Unknown  
 ANIMAl, Human TRAMpled, 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0027**

VMD Year (1-5):  Date:  -

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role: \_\_\_\_\_ Date last planted: \_\_\_\_\_

New planting date m/yy?   Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		PWS	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
19	Fraxinus pennsylvanica	a	R	0.6	0.7	280.0	1.9	<input type="checkbox"/>	380	2.4	<input type="checkbox"/>	3		
20	Platanus occidentalis	h	R	5.2	0.2	750.0	7.0	<input type="checkbox"/>	800	1.0	<input type="checkbox"/>			
22	Quercus phellos	e	R	1.2	4.8	350.0	1.3	<input type="checkbox"/>	420	2.3	<input type="checkbox"/>			
23	Quercus phellos	b	R	0.6	6.9	350.0	2.6	<input type="checkbox"/>	470	3.5	<input type="checkbox"/>			
25	Fraxinus pennsylvanica	d	R	1.8	9.4	425.0	2.5	<input type="checkbox"/>	500	4.0	<input type="checkbox"/>			
26	Fraxinus pennsylvanica	e	R	2.1	7.7	355.0	1.7	<input type="checkbox"/>	440	3.0	<input type="checkbox"/>			
27	Fraxinus pennsylvanica	f	R	2.4	6.1	300.0	1.0	<input type="checkbox"/>	400	2.4	<input type="checkbox"/>			
28	Fraxinus pennsylvanica	g	R	2.9	4.2	200.0	1.2	<input type="checkbox"/>	400	2.1	<input type="checkbox"/>			
29	Platanus occidentalis	i	R	5.6	2.3	800.0	8.0	<input type="checkbox"/>	850	1.1	<input type="checkbox"/>			
30	Fraxinus pennsylvanica	k	R	7.2	2.0	230.0	0.9	<input type="checkbox"/>	370	1.5	<input type="checkbox"/>			
33	Platanus occidentalis	i	R	5.6	9.0	700.0	7.1	<input type="checkbox"/>	800	1.0	<input type="checkbox"/>			

# stems: 11 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

\*SOURCE: T=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, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.

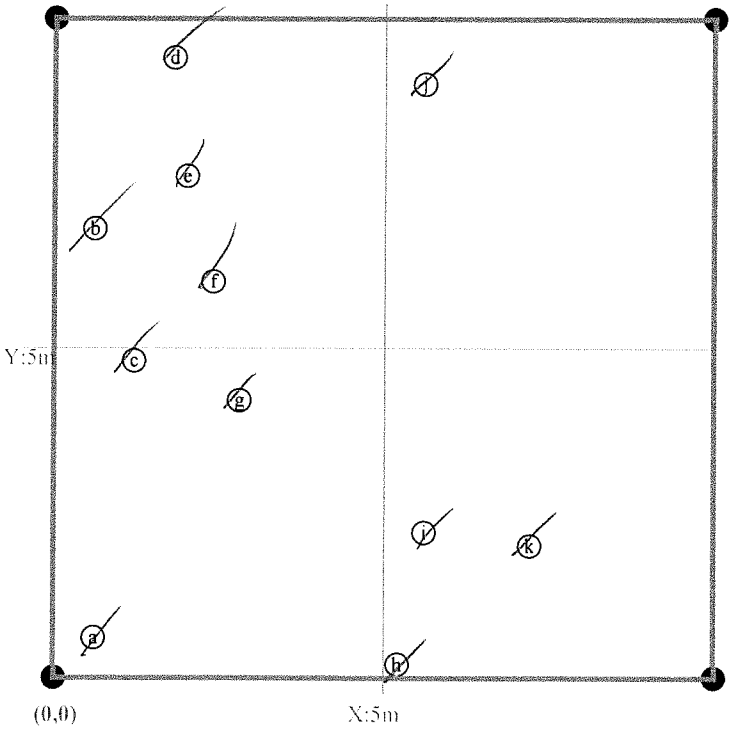
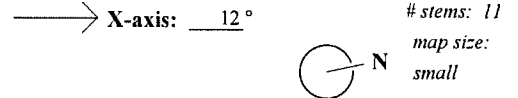
\*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS-EEP Entry Tool ver. 2.3.1

<b>Plot (continued):</b> <u>100046-01-0027</u>				Sep 2022 Data			Notes	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*

Natural Woody Stems - tallied by species														
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm														
Species Name	<input type="checkbox"/> c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH						
		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)			
<i>WLAN</i>		—				—								
		—				—								
		—				—								
		—				—								
		—				—								
		—				—								
		—				—								
		—				—								

\*\*Required if cut-off >10cm or subsample ? 100%.
   
 ● 1   ●● 2   ●●● 3   ●●●● 4   ●●●●● 5   ●●●●●● 6   ●●●●●●● 7   ●●●●●●●● 8   ●●●●●●●●● 9   ●●●●●●●●●● 10
   
 Form WS2, ver 9.1

Map of stems on plot 100046-01-0027



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

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Printed in the CVS-EPP Entry Tool ver. 2.3.1



**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0028**

VMD Year (1-5):  Date:  -

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		Vigor*	THIS YEAR'S DATA				
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Damage*	Notes
36	Fraxinus pennsylvanica	a	R	0.3	0.7	310.0	1.6	<input type="checkbox"/>	380	2.0	<input type="checkbox"/>	3	
37	Betula nigra	d	R	1.8	0.7	500.0	4.0	<input type="checkbox"/>	650	6.0	<input type="checkbox"/>		
41	Fraxinus pennsylvanica	o	R	7.8	0.7	215.0	0.5	<input type="checkbox"/>	320	1.0	<input type="checkbox"/>		
42	Quercus rubra	s	R	9.6	0.7	135.0	DBH?	<input type="checkbox"/>	140	.2	<input type="checkbox"/>		
43	Betula nigra	p	R	8.0	3.4	400.0	3.0	<input type="checkbox"/>	480	4.2	<input type="checkbox"/>		
44	Betula nigra	l	R	6.7	3.2	500.0	3.2	<input type="checkbox"/>	600	4.7	<input type="checkbox"/>		
45	Betula nigra	i	R	5.2	3.0	425.0	3.3	<input type="checkbox"/>	460	3.7	<input type="checkbox"/>		
46	Platanus occidentalis	g	R	3.8	2.9	575.0	4.5	<input type="checkbox"/>	700	6.0	<input type="checkbox"/>		
47	Quercus phellos	e	R	1.8	2.7	240.0	1.0	<input type="checkbox"/>	340	1.8	<input type="checkbox"/>		
49	Platanus occidentalis	c	R	1.3	5.5	650.0	5.0	<input type="checkbox"/>	800	7.0	<input type="checkbox"/>		
50	Platanus occidentalis	f	R	2.7	5.8	475.0	3.0	<input type="checkbox"/>	700	5.0	<input type="checkbox"/>		
51	Quercus phellos	h	R	4.3	5.9	300.0	1.0	<input type="checkbox"/>	420	2.1	<input type="checkbox"/>		
52	Platanus occidentalis	k	R	5.9	6.0	450.0	3.0	<input type="checkbox"/>	620	4.7	<input type="checkbox"/>		
53	Platanus occidentalis	m	R	7.4	6.2	575.0	4.0	<input type="checkbox"/>	700	5.6	<input type="checkbox"/>		
54	Quercus phellos	q	R	9.3	5.6	400.0	1.4	<input type="checkbox"/>	420	2.0	<input type="checkbox"/>		
55	Quercus nigra	r	R	9.2	7.9	130.0	DBH?	<input type="checkbox"/>	80		<input checked="" type="checkbox"/>		
56	Quercus nigra	n	R	7.6	7.9	400.0	2.7	<input type="checkbox"/>	600	3.6	<input type="checkbox"/>		
57	Quercus nigra	j	R	5.7	7.9	300.0	1.0	<input type="checkbox"/>	550	3.0	<input type="checkbox"/>		
1359	Fraxinus pennsylvanica	b	R	0.6	9.0	350.0	2.0	<input type="checkbox"/>	400	2.5	<input type="checkbox"/>		

# stems: 19 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes
dupl	1			400			c	

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubing, 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, HURRricane, 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

Plot (continued): **100046-01-0028**

Sep 2022 Data

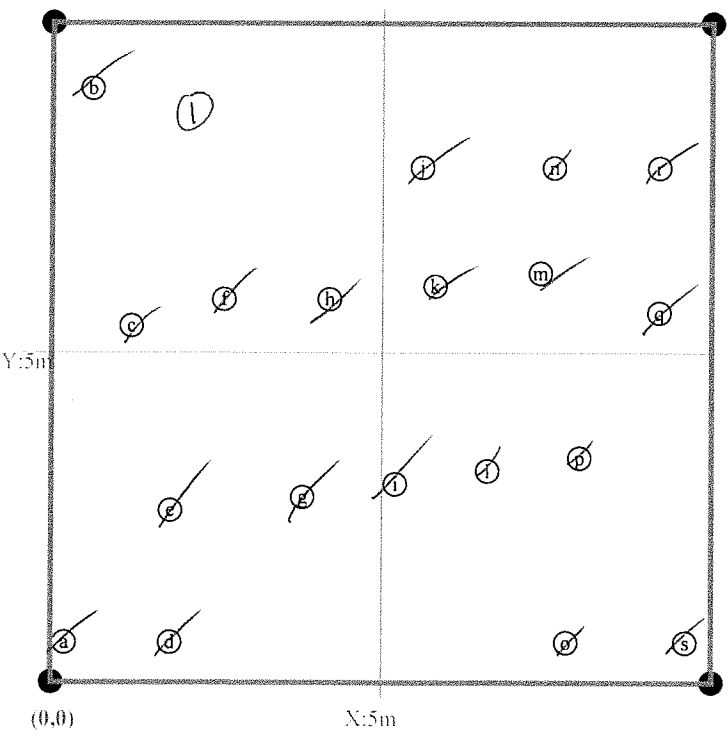
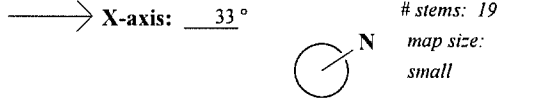
THIS YEAR'S DATA

ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes
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Natural Woody Stems - tallied by species											Explanation of cut-off & subsampling**:					
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):											<input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm					
Species Name	<input checked="" type="checkbox"/> c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH			=10 (write DBH)					
		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-						
FRPC																

\*\*Required if cut-off >10cm or subsample ? 100%. ● 1 ● 2 ● 3 ● 4 ● 5 ● 6 ● 7 ● 8 ● 9 ● 10 Form WS2, ver 9.1

Map of stems on plot **100046-01-0028**



\*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, 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0029**

VMD Year (1-5):  Date:  -

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X Y		Sep 2022 Data		NON*	THIS YEAR'S DATA					
				0.1m	0.1m	Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
62	Quercus phellos	(b)	R	1.1	0.3	230.0	1.0	<input type="checkbox"/>	310	2.0	<input type="checkbox"/>	3		
65	Fraxinus pennsylvanica	(f)	R	3.4	3.1	180.0	0.2	<input type="checkbox"/>	290	1.4	<input type="checkbox"/>			
66	Quercus phellos	(i)	R	5.1	2.7	140.0	0.1	<input type="checkbox"/>	300	1.3	<input type="checkbox"/>			
67	Fraxinus pennsylvanica	(l)	R	6.6	2.2	140.0	0.1	<input type="checkbox"/>	180	.4	<input type="checkbox"/>			
68	Fraxinus pennsylvanica	(n)	R	8.2	1.7	165.0	0.2	<input type="checkbox"/>	290	1.0	<input type="checkbox"/>			
69	Fraxinus pennsylvanica	(o)	R	9.8	1.1	310.0	0.8	<input type="checkbox"/>	380	1.6	<input type="checkbox"/>			
72	Platanus occidentalis	(j)	R	5.3	5.8	330.0	1.6	<input type="checkbox"/>	450	2.8	<input type="checkbox"/>			
73	Quercus nigra	(h)	R	4.0	5.9	250.0	1.0	<input type="checkbox"/>	370	2.2	<input type="checkbox"/>			
75	Quercus nigra	(d)	R	1.6	6.2	130.0	DBH?	<input type="checkbox"/>	160	.5	<input type="checkbox"/>			
77	Betula nigra	(a)	R	0.6	9.0	310.0	1.1	<input type="checkbox"/>	400	2.0	<input type="checkbox"/>			
78	Quercus nigra	(c)	R	1.5	8.6	115.0	DBH?	<input type="checkbox"/>	210		<input type="checkbox"/>			
79	Betula nigra	(e)	R	2.5	8.4	350.0	2.6	<input type="checkbox"/>	390	1.9	<input type="checkbox"/>			
80	Betula nigra	(g)	R	3.9	8.2	290.0	1.1	<input type="checkbox"/>	400	2.0	<input type="checkbox"/>			
82	Betula nigra	(k)	R	6.2	7.9	Missing		<input type="checkbox"/>	X	Y	<input type="checkbox"/>			
83	Betula nigra	(m)	R	7.5	7.7	360.0	2.5	<input type="checkbox"/>	450	3.7	<input type="checkbox"/>	V		

# stems: 15 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 7

\*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

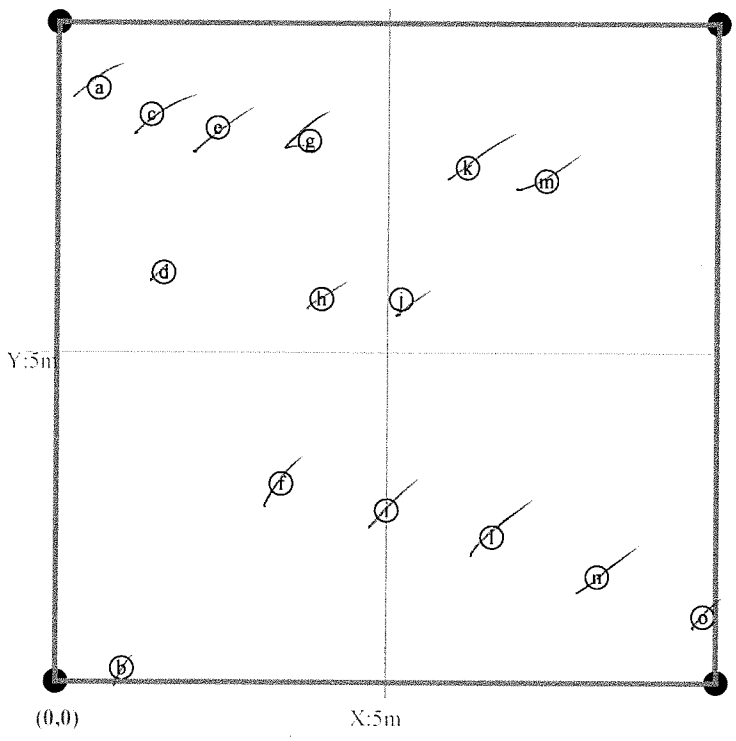
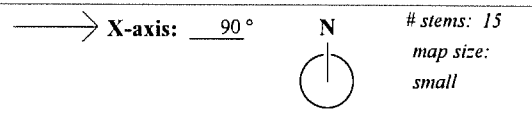
**Natural Woody Stems - tallied by species** Explanation of cut-off & subsampling\*\*:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH		TREES — DBH			
		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)
VLAM				..		..	.			
Winged elm				..		.				

\*\*Required if cut-off >10cm or subsample ? 100%. Form WS2, ver 9.1

Map of stems on plot **100046-01-0029**



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 8

\*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, HURRricane, 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0030**

VMD Year (1-5):  Date:  -

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role: \_\_\_\_\_ Date last planted: \_\_\_\_\_

New planting date m/yy?   Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		VIGOR	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
86	Liriodendron tulipifera	(p)	R	8.4	0.6	65.0			110			3		
88	Platanus occidentalis	(s)	R	9.2	4.5	425.0	3.0		600	5.1		1		
89	Quercus phellos	(q)	R	8.4	3.6	330.0	1.7		400	2.8				
90	Platanus occidentalis	(n)	R	7.4	2.9	450.0	3.2		650	4.9				
91	Platanus occidentalis	(l)	R	6.3	2.1	400.0	2.4		640	4.5				
92	Platanus occidentalis	(i)	R	5.2	1.2	425.0	3.7		660	4.8				
93	Platanus occidentalis	(h)	R	4.1	0.2	460.0	4.3		680	5.5				
94	Liriodendron tulipifera	(a)	R	0.6	0.5	375.0	3.2		600	5.0				
96	Liriodendron tulipifera	(f)	R	2.8	2.4	400.0	3.9		640	6.0				
101	Quercus rubra	(o)	R	7.5	6.4	100.0			110					
102	Quercus rubra	(r)	R	8.5	7.3	270.0	1.2		390	3.0				
103	Quercus rubra	(t)	R	9.8	8.7	55.0			70					
104	Quercus nigra	(m)	R	6.5	9.6	290.0	1.5		450	3.2				
105	Betula nigra	(k)	R	5.5	8.8	340.0	2.6		540	4.1				
106	Quercus nigra	(i)	R	4.6	8.0	235.0	0.4		400	1.9				
107	Quercus nigra	(g)	R	3.6	7.1	270.0	0.8		410	2.2				
108	Quercus nigra	(e)	R	2.7	6.1	220.0	0.7		420	2.5				
109	Quercus nigra	(c)	R	1.7	5.2	135.0	DBH?		210	1.6				
110	Quercus nigra	(b)	R	0.7	4.2	270.0	1.0		400	2.1				
112	Platanus occidentalis	(d)	R	1.7	8.6	330.0	1.0		490	3.0				

# stems: 20 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 9

\*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-EPP Entry Tool ver. 2.3.1

Plot (continued): **100046-01-0030**

Sep 2022 Data

THIS YEAR'S DATA

ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	NON	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes
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**Natural Woody Stems - tallied by species**

Explanation of cut-off & subsampling\*\*:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH		TREES — DBH										
		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)						
ULAm																	

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

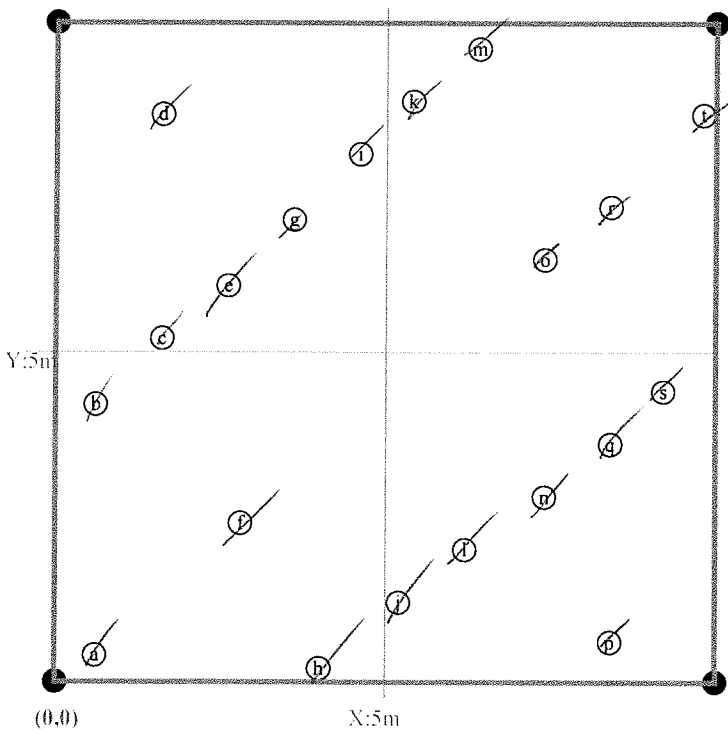


Form WS2, ver 9.1

Map of stems on plot **100046-01-0030**

X-axis: 210°

# stems: 20  
map size: small



\*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.

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0031**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

(dec. deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role:

Date last planted:

New planting date m/yy?

Check box if plot was not Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		Vigor*	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
115	Platanus occidentalis	a	R	0.4	0.7	650.0	4.9	<input type="checkbox"/>	700	8.0	<input type="checkbox"/>	3		
116	Quercus nigra	i	R	3.6	0.9	75.0		<input type="checkbox"/>	75	1.0	<input type="checkbox"/>			
117	Quercus phellos	g	R	2.8	2.2	150.0	0.1	<input type="checkbox"/>	210	.7	<input type="checkbox"/>			
118	Fraxinus pennsylvanica	e	R	2.3	3.4	280.0	2.5	<input type="checkbox"/>	310	2.9	<input type="checkbox"/>			
119	Fraxinus pennsylvanica	d	R	1.5	4.8	300.0	1.0	<input type="checkbox"/>	400	2.0	<input type="checkbox"/>			
120	Platanus occidentalis	c	R	0.9	5.9	450.0	2.1	<input checked="" type="checkbox"/>	450	4.7	<input type="checkbox"/>			
121	Betula nigra	b	R	0.4	7.1	Missing		<input type="checkbox"/>	X	X	<input type="checkbox"/>			
122	Quercus phellos	f	R	2.3	8.9	160.0	0.2	<input type="checkbox"/>	210	.7	<input type="checkbox"/>			
123	Quercus phellos	h	R	2.9	7.6	130.0	DBH?	<input type="checkbox"/>	140	.2	<input type="checkbox"/>			
124	Platanus occidentalis	i	R	3.4	6.1	550.0	3.0	<input type="checkbox"/>	700	6.9	<input type="checkbox"/>			
125	Quercus phellos	k	R	4.4	5.0	150.0	0.1	<input type="checkbox"/>	150	.2	<input type="checkbox"/>			
126	Quercus phellos	l	R	4.8	4.0	245.0	0.4	<input type="checkbox"/>	250	.7	<input type="checkbox"/>			
127	Quercus phellos	m	R	5.6	3.0	130.0	DBH?	<input type="checkbox"/>	150	.2	<input type="checkbox"/>			
128	Quercus phellos	n	R	6.4	1.4	200.0	0.4	<input type="checkbox"/>	300	1.5	<input type="checkbox"/>			
130	Quercus nigra	u	R	9.9	0.4	60.0		<input type="checkbox"/>	60		<input type="checkbox"/>			
131	Betula nigra	s	R	9.3	1.8	Missing		<input type="checkbox"/>	X	X	<input type="checkbox"/>			
132	Quercus phellos	q	R	8.7	3.3	230.0	0.4	<input type="checkbox"/>	300	1.0	<input type="checkbox"/>			
138	Platanus occidentalis	o	R	7.2	9.5	Missing		<input type="checkbox"/>	X	X	<input type="checkbox"/>			
139	Platanus occidentalis	p	R	8.1	8.4	600.0	3.3	<input type="checkbox"/>	650	5.0	<input type="checkbox"/>			
140	Platanus occidentalis	r	R	9.1	7.2	575.0	3.0	<input type="checkbox"/>	650	5.3	<input type="checkbox"/>			
141	Platanus occidentalis	t	R	9.7	6.0	Missing		<input type="checkbox"/>	X	X	<input type="checkbox"/>			

# stems: 21 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

\*Notes by ID: 120-Growing sideways

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubing, R=bare Root, M=Mechanically, U=Unknown p. 11

\*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-EPP Entry Tool ver. 2.3.1

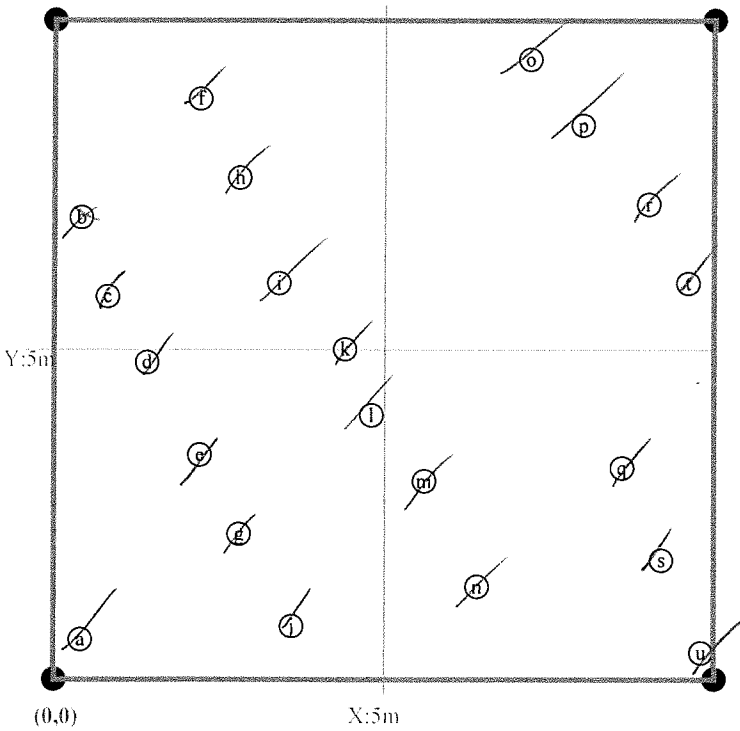
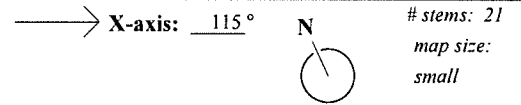
<b>Plot (continued): 100046-01-0031</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species											Explanation of cut-off & subsampling**	
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):											<input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm	
Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH			=10 (write DBH)	
		10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-	5-			
FRPE	—				—						*	
CEOC (50g)	—				—							
TUPL	—				—						....	
	—				—							
	—				—							
	—				—							
	—				—							

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

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

Map of stems on plot 100046-01-0031



\*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, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.

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

p. 12

Printed in the CVS-EPP Entry Tool ver. 2.3.1



**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0032**

VMD Year (1-5):  Date:  -

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?

Check box if plot was not sampled, specify reason below

Notes: \_\_\_\_\_

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		NON*	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
146	Liriodendron tulipifera	(m)	R	9.0	0.3	70.0		<input type="checkbox"/>	60		<input type="checkbox"/>	1		
147	Quercus phellos	(i)	R	7.6	0.5	Missing		<input checked="" type="checkbox"/>	X	X	<input type="checkbox"/>	3		
148	Quercus nigra	(i)	R	6.6	1.0	210.0	0.3	<input type="checkbox"/>	310	1.0	<input type="checkbox"/>	1		
149	Quercus nigra	(e)	R	5.0	1.5	240.0	1.0	<input type="checkbox"/>	400	2.0	<input type="checkbox"/>			
150	Platanus occidentalis	(d)	R	3.7	1.6	350.0	1.4	<input type="checkbox"/>	510	2.8	<input type="checkbox"/>			
153	Platanus occidentalis	(c)	R	1.7	3.9	550.0	3.1	<input type="checkbox"/>	620	5.9	<input type="checkbox"/>			
154	Platanus occidentalis	(e)	R	4.6	3.3	600.0	3.4	<input type="checkbox"/>	690	5.5	<input type="checkbox"/>			
155	Platanus occidentalis	(h)	R	6.5	2.9	600.0	3.6	<input type="checkbox"/>	610	4.5	<input type="checkbox"/>			
157	Platanus occidentalis	(n)	R	9.6	1.8	400.0	2.2	<input type="checkbox"/>	500	3.2	<input type="checkbox"/>			
161	Quercus phellos	(f)	R	4.6	4.6	260.0	0.4	<input type="checkbox"/>	350	1.4	<input type="checkbox"/>			
163	Quercus nigra	(b)	R	1.5	5.0	115.0	DBH?	<input type="checkbox"/>	170	.4	<input type="checkbox"/>			
164	Quercus phellos	(a)	R	0.5	8.9	200.0	0.7	<input type="checkbox"/>	290	1.2	<input type="checkbox"/>			
169	Quercus phellos	(k)	R	8.1	8.3	215.0	0.7	<input type="checkbox"/>	340	1.2	<input type="checkbox"/>			
171	Platanus occidentalis	(l)	R	8.8	9.6	500.0	3.9	<input type="checkbox"/>	620	5.6	<input type="checkbox"/>	✓		

# stems: 14 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

\*Notes by ID: 147-overgrown

Plot (continued): 10046-01-0032 Sep 2022 Data THIS YEAR'S DATA

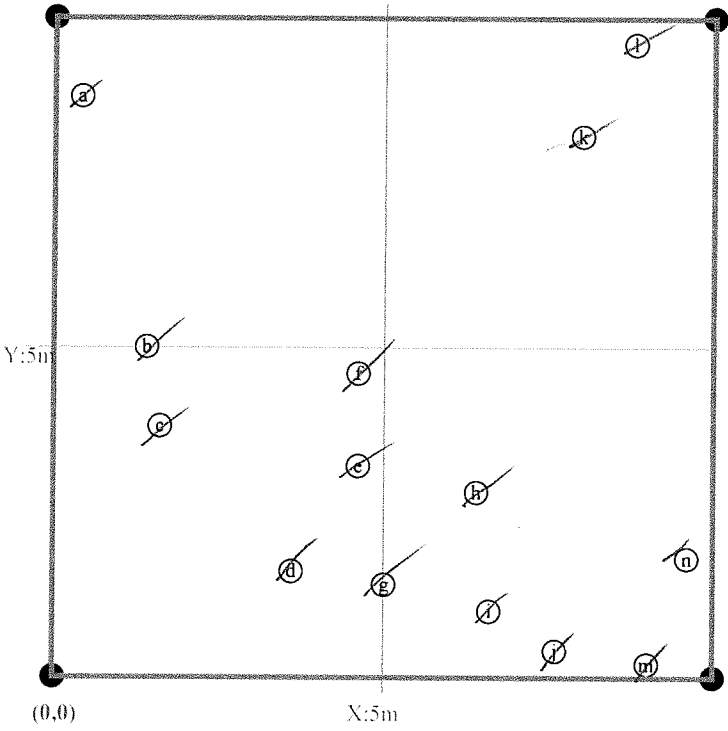
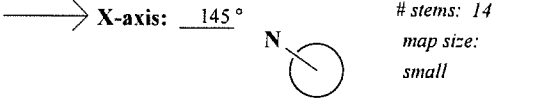
ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	NOV	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes
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Natural Woody Stems - tallied by species											
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm											
Species Name	Sub-seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH			
		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)		
<i>LIST</i>											
<i>ULAN</i>											
<i>ACRU</i>											
<i>Juni</i>											

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

●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

Map of stems on plot 10046-01-0032



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 14  
 \*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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0033**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role:

Date last planted:

New planting date m/yy?

Check box if plot was not Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		Notes	THIS YEAR'S DATA				
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*
173	Fraxinus pennsylvanica	(a)	R	0.7	0.5	250.0	0.8		330	1.2		3	
174	Quercus rubra	(d)	R	1.8	0.3	55.0			80				
176	Quercus rubra	(i)	R	4.5	0.4	45.0			60				
177	Quercus rubra	(n)	R	5.7	0.5	105.0	DBH?		150	.2			
178	Platanus occidentalis	(p)	R	6.9	0.6	400.0	2.0		500	3.8			
181	Betula nigra	(s)	R	8.6	2.0	450.0	3.9		600	5.0			
182	Quercus alba	(q)	R	7.0	2.0	80.0			90				
183	Betula nigra	(m)	R	5.5	1.9	330.0	2.2		420	3.1			
185	Quercus nigra	(f)	R	2.2	2.3	245.0	2.0		340	3.0			
186	Quercus alba	(c)	R	1.3	3.5	155.0	0.2		270				
187	Quercus phellos	(g)	R	2.4	3.5	200.0	0.5		320	1.1			
189	Quercus alba	(k)	R	4.9	3.5	165.0	0.4		210	.7			
190	Quercus alba	(o)	R	6.0	3.5	265.0	1.1		380	2.3			
191	Quercus alba	(r)	R	7.3	3.5	230.0	1.0		310	1.8			
192	Quercus alba	(l)	R	8.6	3.5	Missing			X	Y			
193	Quercus alba	(v)	R	9.8	3.5	190.0	0.3		280	.8			
194	Fraxinus pennsylvanica	(u)	R	9.3	5.6	245.0	0.7		320	1.3			
197	Quercus rubra	(l)	R	5.2	5.4	125.0	DBH?		240	.8			
198	Quercus phellos	(h)	R	3.6	5.4	290.0	1.6		330	2.4			
200	Fraxinus pennsylvanica	(b)	R	0.8	5.7	320.0	1.5		400	2.2			
202	Quercus alba	(e)	R	2.0	7.9	200.0	0.7		230	1.0			
204	Quercus nigra	(j)	R	4.7	7.6	200.0	0.3		400	1.8			

# stems: 22 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 15  
 \*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, DISSEASED, VINE Strangulation, UNKNOW, specify other.  
 \*HEIGHT PRECISION drops to 10cm if >2.5m and 50cm if >4m. Printed in the CVS-EIP Entry Tool ver. 2.3.1

Plot (continued): **100046-01-0033**

Sep 2022 Data

THIS YEAR'S DATA

ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	STATUS	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes
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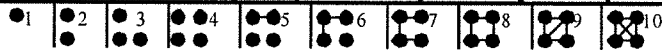
**Natural Woody Stems - tallied by species**

Explanation of cut-off & subsampling\*\*:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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	=10 (write DBH)
<i>Acru</i>				..		..				

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

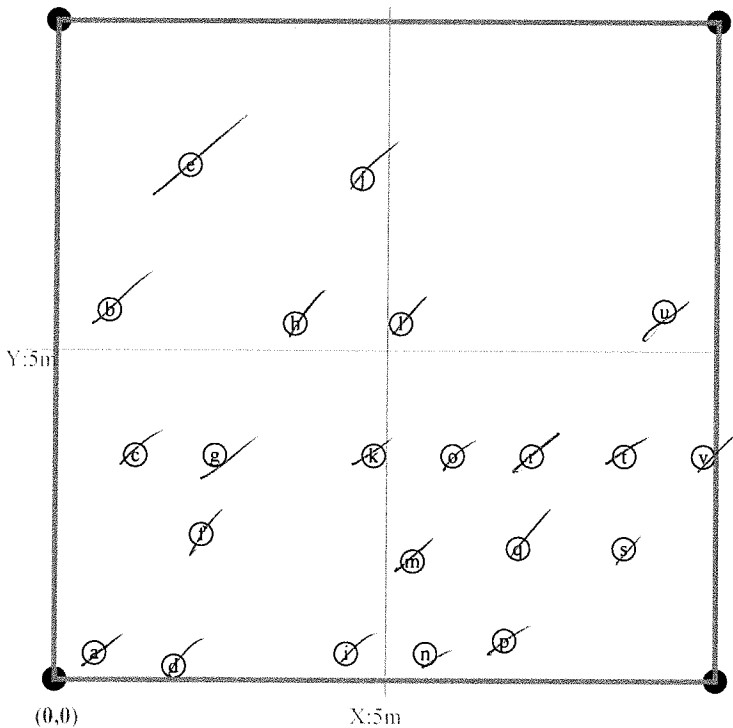


Form WS2, ver 9.1

Map of stems on plot **100046-01-0033**

X-axis: 0°

# stems: 22  
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. 16  
 \*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, HURRricane, 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

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0034**

VMD Year (1-5):  Date:  -

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?

Check box if plot was not

Notes: sampled, specify reason below

ID	Species Name	Map char	Source*	X Y		Sep 2022 Data		VIGOR	THIS YEAR'S DATA					
				0.1m	0.1m	Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
208	Quercus nigra	(a)	R	0.4	0.5	355.0	2.3	<input type="checkbox"/>	490	4.3	<input type="checkbox"/>	3		
209	Quercus phellos	(j)	R	4.5	0.6	255.0	0.9	<input type="checkbox"/>	370	2.0	<input type="checkbox"/>			
210	Quercus phellos	(e)	R	2.4	2.6	275.0	1.0	<input type="checkbox"/>	350	2.1	<input type="checkbox"/>			
211	Quercus phellos	(b)	R	0.4	4.8	310.0	1.8	<input type="checkbox"/>	420	3.0	<input type="checkbox"/>			
212	Liriodendron tulipifera	(c)	R	0.7	8.4	235.0	0.3	<input type="checkbox"/>	410	1.8	<input type="checkbox"/>			
213	Quercus rubra	(d)	R	1.4	7.6	92.0		<input type="checkbox"/>	180	.3	<input type="checkbox"/>			
214	Quercus rubra	(f)	R	2.4	7.0	110.0	DBH?	<input type="checkbox"/>	250	.7	<input type="checkbox"/>			
215	Platanus occidentalis	(g)	R	3.5	5.7	200.0	0.2	<input type="checkbox"/>	269	.9	<input type="checkbox"/>			
216	Quercus nigra	(i)	R	4.2	4.9	160.0	0.2	<input type="checkbox"/>	310	1.4	<input type="checkbox"/>			
217	Platanus occidentalis	(k)	R	6.0	3.1	425.0	2.5	<input type="checkbox"/>	500	4.0	<input type="checkbox"/>			
218	Platanus occidentalis	(m)	R	6.8	2.3	450.0	3.0	<input type="checkbox"/>	500	4.1	<input type="checkbox"/>			
219	Quercus phellos	(o)	R	7.8	1.4	155.0	0.2	<input type="checkbox"/>	380	1.9	<input type="checkbox"/>			
220	Quercus rubra	(p)	R	8.6	5.0	60.0		<input type="checkbox"/>	70		<input type="checkbox"/>			
222	Quercus rubra	(l)	R	6.3	7.0	80.0		<input type="checkbox"/>	90		<input type="checkbox"/>			
224	Platanus occidentalis	(h)	R	3.9	9.4	210.0	0.3	<input type="checkbox"/>	340	1.0	<input type="checkbox"/>			
225	Quercus rubra	(n)	R	7.7	9.6	150.0	0.2	<input type="checkbox"/>	190	.7	<input type="checkbox"/>			
226	Quercus nigra	(q)	R	8.8	8.8	140.0	0.1	<input type="checkbox"/>	210	.8	<input type="checkbox"/>			

# stems: 17 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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

\*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.

p. 17  
Printed in the CVS-EEP Entry Tool ver. 2.3.1

Plot (continued): **100046-01-0034**

Sep 2022 Data

THIS YEAR'S DATA

ID	Species	map char	source	X (m)	Y (m)	ddh (mm)	Height (cm)	DBH (cm)	NOV	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes
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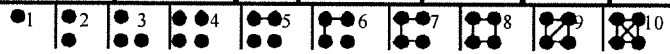
**Natural Woody Stems - tallied by species**

Explanation of cut-off & subsampling\*\*:

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

Species Name	Sub-Seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)	
ACME										
LIT										

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



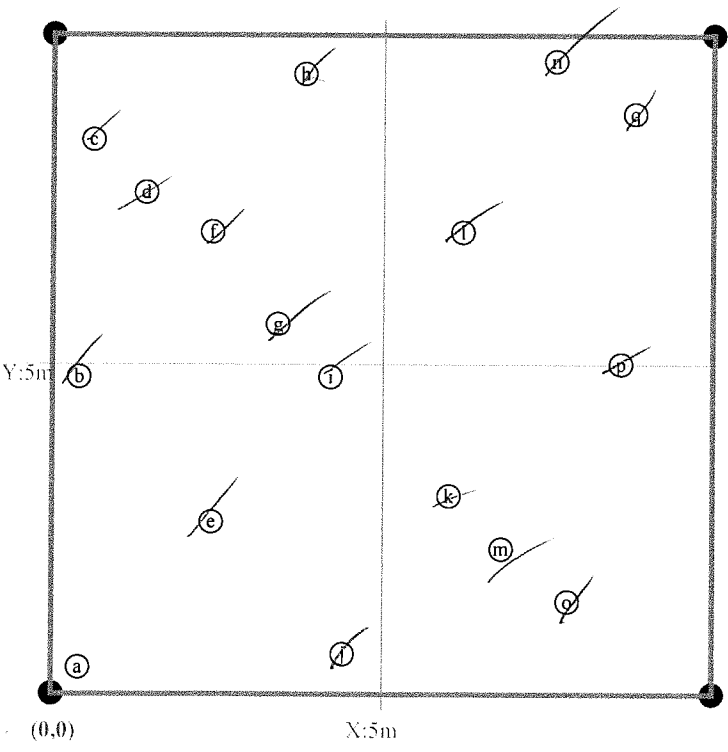
Form WS2, ver 9.1

Map of stems on plot **100046-01-0034**

X-axis: 115°



# stems: 17  
map size: small



\*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.

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0035**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:   
 (dec. deg. or m)

Longitude or UTM-E:  UTM Zone:   
 (dec. deg. or m)

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:  Role:

Date last planted:

New planting date m/yy?   Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		Height 1cm*	DBH 1 cm	VIGOR	THIS YEAR'S DATA				
						Height 1cm*	DBH 1 cm				Re-sprout	Vigor*	Damage*	Notes	
228	Quercus phellos	(a)	R	0.4	0.3			90.0		<input type="checkbox"/>	95		<input type="checkbox"/>	2	
229	Quercus phellos	(b)	R	0.6	2.0	Missing				<input type="checkbox"/>	X	X	<input type="checkbox"/>	X	
230	Quercus nigra	(c)	R	0.7	3.5			50.0		<input type="checkbox"/>	55		<input type="checkbox"/>	2	
232	Quercus phellos	(d)	R	1.1	7.1			49.0		<input type="checkbox"/>	49		<input type="checkbox"/>	2	
233	Quercus rubra	(e)	R	1.4	8.8	Missing				<input type="checkbox"/>	X	X	<input type="checkbox"/>	X	
235	Platanus occidentalis	(f)	R	2.9	8.0			110.0	DBH?	<input type="checkbox"/>	125		<input type="checkbox"/>	3	
236	Platanus occidentalis	(g)	R	3.2	0.3			190.0	0.3	<input type="checkbox"/>	240	-6	<input type="checkbox"/>	3	
237	Platanus occidentalis	(h)	R	3.9	2.0			120.0	DBH?	<input type="checkbox"/>	135	-1	<input type="checkbox"/>	3	
238	Platanus occidentalis	(i)	R	4.7	3.9	Missing				<input type="checkbox"/>	X	X	<input type="checkbox"/>	X	
243	Fraxinus pennsylvanica	(l)	R	7.6	5.1			81.0		<input type="checkbox"/>	90		<input type="checkbox"/>	2	
244	Quercus rubra	(k)	R	7.0	3.1			50.0		<input type="checkbox"/>	55		<input type="checkbox"/>	2	
245	Quercus rubra	(j)	R	6.2	1.1			20.0		<input type="checkbox"/>	55		<input type="checkbox"/>	2	
247	Quercus nigra	(m)	R	9.9	2.1			95.0		<input type="checkbox"/>	99		<input type="checkbox"/>	2	

# stems: 13 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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. 19  
 \*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-EPP Entry Tool ver. 2.3.1

<b>Plot (continued): 100046-01-0035</b>				Sep 2022 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

Natural Woody Stems - tallied by species										
Species Name	Sub-seed	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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	=10 (write DBH)

Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.):  10cm  50cm  100cm  137cm

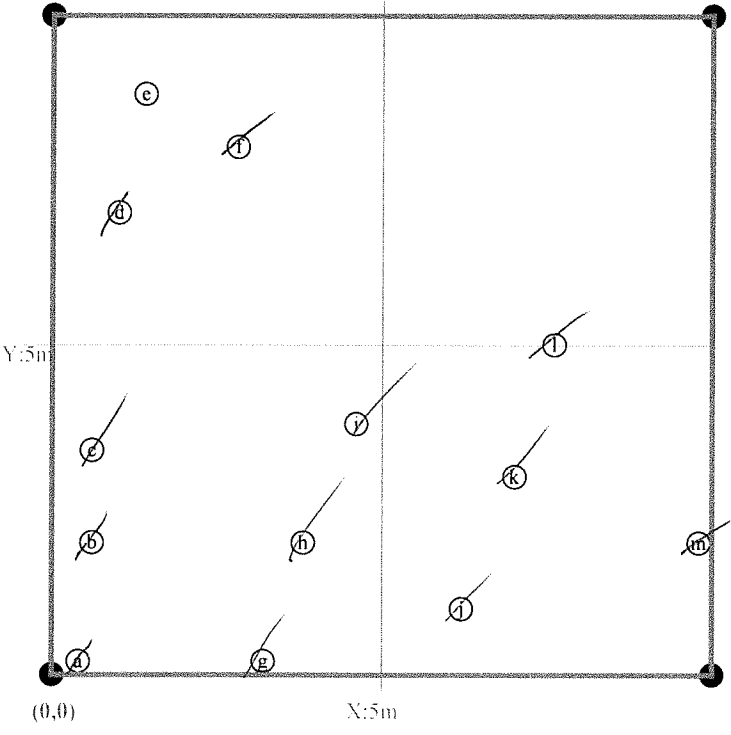
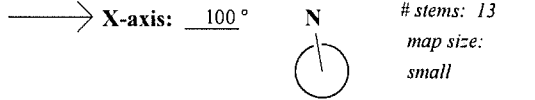
Explanation of cut-off & subsampling\*\*:

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

Legend: ●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10

Form WS2, ver 9.1

Map of stems on plot 100046-01-0035



\*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, HURRricane, DISeased, VINE Strangulation, UNKNown, specify other.

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

p. 20

Printed in the CVS-EEP Entry Tool ver. 2.3.1



**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0036**

VMD Year (1-5):  Date:  -

Taxonomic Standard: \_\_\_\_\_

Taxonomic Standard DATE: \_\_\_\_\_

Latitude or UTM-N:  Datum:

(dec.deg. or m)

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role: \_\_\_\_\_

Date last planted: \_\_\_\_\_

New planting date m/yy?

Check box if plot was not  
Notes: sampled, specify reason below

*Deer Damage*  
*only*

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		Vigor*	THIS YEAR'S DATA					
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*	Notes
248	Platanus occidentalis	(a)	R	0.4	0.3	375.0	2.0	<input type="checkbox"/>	480	4.0	<input type="checkbox"/>	3		
249	Fraxinus pennsylvanica	(c)	R	0.8	3.7	90.0		<input type="checkbox"/>	90		<input type="checkbox"/>	2		
252	Quercus nigra	(m)	R	9.3	0.6	150.0	0.2	<input type="checkbox"/>	180	2.3	<input type="checkbox"/>	3		
253	Platanus occidentalis	(k)	R	8.1	1.4	260.0	1.0	<input type="checkbox"/>	380	2.0	<input type="checkbox"/>	3		
254	Quercus nigra	(j)	R	6.9	2.6	50.0		<input type="checkbox"/>	70		<input type="checkbox"/>	2		
255	Quercus nigra	(h)	R	5.7	3.9	85.0		<input type="checkbox"/>	90		<input type="checkbox"/>	2		
256	Quercus nigra	(g)	R	4.9	4.0	70.0		<input type="checkbox"/>	80		<input type="checkbox"/>	2		
257	Platanus occidentalis	(e)	R	3.7	5.2	320.0	1.3	<input type="checkbox"/>	400	2.1	<input type="checkbox"/>	3		
258	Quercus nigra	(d)	R	2.1	6.2	90.0		<input type="checkbox"/>	90		<input type="checkbox"/>	2		
259	Platanus occidentalis	(b)	R	0.6	7.7	375.0	1.9	<input type="checkbox"/>	470	3.3	<input type="checkbox"/>	3		
260	Quercus phellos	(f)	R	4.2	9.8	58.0		<input type="checkbox"/>	60		<input type="checkbox"/>	2		
261	Quercus phellos	(i)	R	5.8	8.5	75.0		<input type="checkbox"/>	80		<input type="checkbox"/>	2		
263	Platanus occidentalis	(n)	R	9.9	4.5	350.0	1.4	<input type="checkbox"/>	500	3.0	<input type="checkbox"/>	3		
264	Quercus phellos	(l)	R	8.9	9.6	90.0		<input type="checkbox"/>	90		<input type="checkbox"/>	2		

# stems: 14 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 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

\*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.

<b>Plot (continued): 100046-01-0036</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

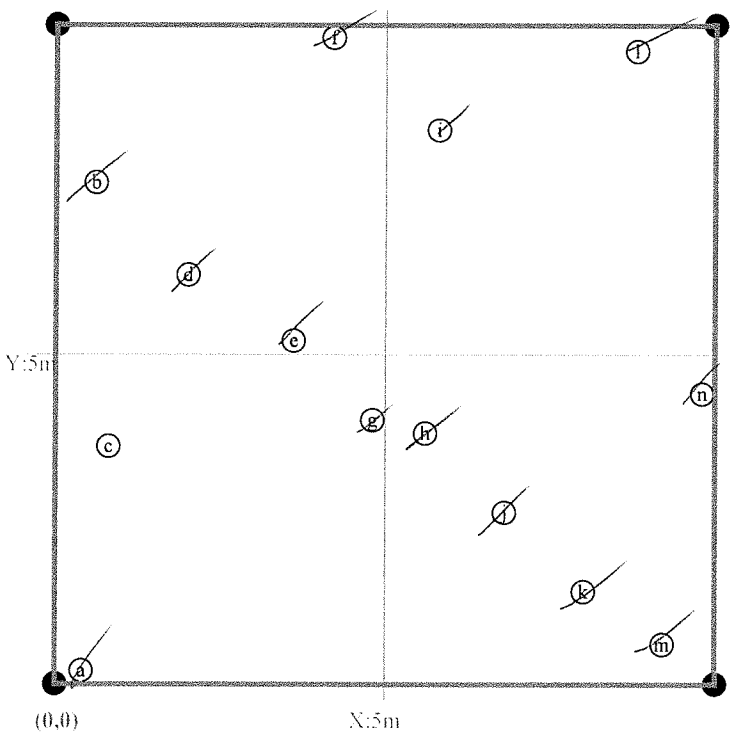
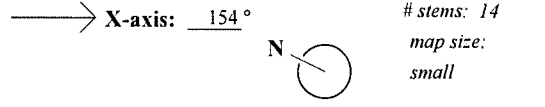
Natural Woody Stems - tallied by species											Explanation of cut-off & subsampling**:	
Species Name	c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH			=10 (write DBH)	
		Sub-Seed	10 cm-50 cm	50 cm-100 cm	100 cm-137 cm	Sub-Sapl	0-1 cm	1-2.5	2.5-	5-		
CLST				10	15							

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

Legend: 1 (1 dot), 2 (2 dots), 3 (3 dots), 4 (4 dots), 5 (5 dots), 6 (6 dots), 7 (7 dots), 8 (8 dots), 9 (9 dots), 10 (10 dots)

Form WS2, ver 9.1

Map of stems on plot 100046-01-0036



\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubling, R=bare Root, M=Mechanically, U=Unknown p. 22

\*VIGOR: 4=excellent, 3=good, 2=fair, I=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-EPP Entry Tool ver. 2.3.1

**Vegetation Monitoring Data (VMD) Datasheet**

Please fill in any missing data and correct any errors.

**Plot 100046-01-0037**

VMD Year (1-5):  Date:  -

Taxonomic Standard:

Taxonomic Standard DATE:

Latitude or UTM-N:  Datum:

Longitude or UTM-E:  UTM Zone:

Coordinate Accuracy (m):  X-Axis bearing (deg):

Plot Dimensions: X:  Y:   Plot has reverse orientation for X and Y axis (Y is 90 degrees to the right of X)

Party:

Role:

Date last planted:

New planting date m/yy?

Check box if plot was not sampled, specify reason below

Notes:

ID	Species Name	Map char	Source*	X 0.1m	Y 0.1m	Sep 2022 Data		VMD	THIS YEAR'S DATA				
						Height 1cm*	DBH 1 cm		Height 1cm*	DBH 1 cm	Re-sprout	Vigor*	Damage*
266	Fraxinus pennsylvanica	f	R	1.2	0.3	65.0			70			2	
267	Quercus alba	e	R	0.9	1.8	45.0			50				
268	Quercus alba	d	R	0.6	3.1	55.0			55				
269	Fraxinus pennsylvanica	b	R	0.5	4.4	50.0			50				
270	Quercus alba	c	R	0.4	5.9	52.0			52				
272	Quercus alba	a	R	0.3	8.8	60.0			60				
273	Quercus alba	h	R	3.5	9.3	80.0			80				
274	Quercus alba	g	R	3.5	7.5	67.0			68				
275	Quercus phellos	i	R	3.6	5.7	85.0			90			1	
276	Quercus rubra	i	R	3.7	3.4	66.0			66			1	
277	Platanus occidentalis	k	R	4.1	1.4	280.0	1.4		380	2.0		3	
278	Quercus phellos	D	R	7.0	1.2	65.0			65			2	
279	Quercus nigra	o	R	6.7	3.0	45.0			45			1	
280	Quercus phellos	n	R	6.5	4.8	60.0			60				
281	Quercus rubra	l	R	6.3	6.8	50.0			50				
282	Quercus rubra	un	R	6.3	8.9	Missing			Y	Y			
283	Quercus phellos	s	R	9.4	9.9	50.0			50				
284	Quercus phellos	r	R	9.4	8.0	68.0			65				
285	Quercus phellos	q	R	9.5	6.1	95.0			80				
286	Quercus phellos	u	R	9.6	3.9	88.0			80				
287	Quercus phellos	t	R	9.7	1.9	80.0			80				

# stems: 21 New Stems, not included last year, but are obviously planted. If more space needed, use blank PWS (Planted Woody Stems) Form:

Species Name	Source*	X (m)	Y (m)	Height 1 cm*	DBH 1 cm	Vigor*	Damage*	Notes

\*SOURCE: Tr=Transplant, L=Live stake, B=Ball and burlap, P=Potted, Tu=Tubing, R=bare Root, M=Mechanically, U=Unknown p. 23  
 \*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

<b>Plot (continued): 100046-01-0037</b>				Sep 2022 Data			THIS YEAR'S DATA						
ID	Species	map char	source X (m) Y (m)	ddh (mm)	Height (cm)	DBH (cm)	ddh (mm)	Height (cm)	DBH (cm)	Re-sprout	Vigor*	Damage*	Notes

Natural Woody Stems - tallied by species										
Height Cut-Off (All stems shorter than this are ignored. If >10cm, explain why to the right.): <input type="checkbox"/> 10cm <input type="checkbox"/> 50cm <input type="checkbox"/> 100cm <input type="checkbox"/> 137cm										
Species Name	c	SEEDLINGS — HEIGHT CLASSES			SAPLINGS — DBH			TREES — DBH		
		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)

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

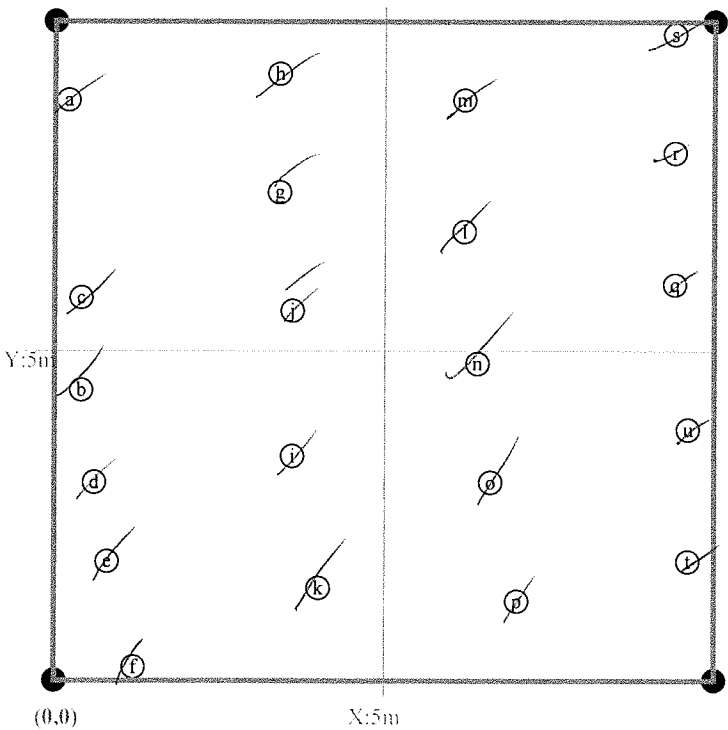
●1 ●2 ●3 ●4 ●5 ●6 ●7 ●8 ●9 ●10 Form WS2, ver 9.1

Explanation of cut-off & subsampling\*\*:

Map of stems on plot 100046-01-0037

X-axis: 240°

# stems: 21  
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. 24  
 \*VIGOR: 4=excellent, 3=good, 2=fair, I=unlikely to survive year, 0=dead, M=missing  
 \*DAMAGE: REMOval, CUT, MOWing, BEAVer, DEER, RODents, INSEcts, GAME, LIVESTock, Other/Unkown 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-EPP Entry Tool ver. 2.3.1