CITY FOREST CREDITS

Lake County Forest Preserve District – Carbon Planting Project
Project Design Document – Year 4

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INSTRUCTIONS

Project Operators must complete and submit this Project Design Document (PDD) to request credits after the third anniversary of the Credit Commencement Date. City Forest Credits then reviews this PDD as part of the validation process along with all other required project documents. An approved third-party verifier then does an independent check of all documents and compliance with the Protocol, known as verification. An updated PDD will need to be submitted for future verification at Year 6 and After Year 25.

Project Operators should enter data and supporting attachments starting on page 3 under Project Overview where you find "[Enter text here]" as thoroughly as possible and provide numbered attachments for maps and other documentation (ex: 1 – Regional Map). Keep all instructions in the document.

Below is a list of documents that are needed to complete a successful Year 4 Project Design Document:

For the Single Tree Planting Design:

- Carbon Quantification Year 4 Credit tool
- Tree Sampling Data
- Geocoded photos
- Project geospatial data, if there have been changes (KML file or shapefile)

For the Cluster Planting Design

- Project Area imaging from any telemetry, imaging, or remote sensing service
- i-Tree Canopy report
- i-Tree Canopy source data
- Project geospatial data, if there have been changes (KML file or shapefile)
- Carbon Quantification Year 4 Credit tool

For the Area Reforestation Planting Design (previously Canopy Design):

- Either:
    - Project Area imaging from any telemetry, imaging, or remote sensing service
    - i-Tree Canopy report
    - i-Tree Canopy source data
- Or:
    - Tree plot sampling data
- Project geospatial data, if there have been changes (KML file or shapefile)
- Carbon Quantification Year 4 Credit tool
- Summary of approach to quantifying the local CO_2 index

PROJECT OVERVIEW

Project Name: Lake County Forest Preserve District – Carbon Planting Project
Project Number: 020
Project Type: Planting Project
Project Start Date: October 29, 2021
Project Location: Multiple locations within the Lake County Forest Preserve District, Lake County, Illinois

Project Operator Name: Lake County Forest Preserve District
Project Operator Contact Information: Matthew Ueltzen, Manager of Restoration Ecology; mueltzen@lcfpd.org; (o) 847-968-3290, (m) 847-276-6230

PROJECT AND PLANTING DESIGN UPDATES

Include information on changes to the project including tree survival, ownership, or other relevant updates.

Trees were installed in three consecutive years (2019-2021) at multiple sites throughout Lake County, Illinois. In total, 2,960 trees were submitted for carbon credits (across roughly 445 acres). Original carbon credits were based on 'single tree' quantification. When performing the Year-4 monitoring, it was noted that the original quantification method would not be appropriate for this project and City Forest Credits advised the Lake County Forest Preserve District to switch to the 'clustered' quantification method. Additional modifications were made to the number of trees included for credits due to unforeseen monitoring methods when using (switching to) the 'clustered' quantification method, i.e. aerial photography interpretation. Some planting polygons were removed due to pre-project canopy interference that hindered analysis. The new proposed total is 2,121 trees across 62 acres. The large reduction in project acres is due in part to some polygon removals, but also due to re-mapping of actual planting areas. The original project design counted entire habitat areas (larger acreages) where trees were installed; current mapping depicts only tree planting areas within those larger habitat areas.

There have not been any changes to the ownership of the trees and the Lake County Forest Preserve District has maintained and monitored the trees for the duration of the project.

There has not been any known, significant tree mortality to date. No trees have been replaced thus far.

CARBON QUANTIFICATION DOCUMENTATION (Section 12 and Appendix B)

Describe and summarize the planting design, sampling, and appropriate quantification/measurement method for the project – Single Tree, Clustered, or Area Reforestation. Include the project's climate zone and method of data collection. Outline the estimated total number of credits to be issued to the project over 25 years as well as the amount to be issued upon successful validation and verification in Year 4. Attach the quantification tool and appropriate sampling tool.

List of quantification Tools by planting method (CFC to provide guidance and resources):

1) *Single Tree - single tree quantification tool*
2) *Clustered - cluster quantification tool*
3) *Area Reforestation - quantification with CO_2 calculated per acre*

To ensure performance of the credits, Project Operators must commit to the following at Year 4, with additional requirements at Year 6 and after Year 25 based on the appropriate quantification method.

1) *Single Tree*
    a. *Year 4: Project Operators must generate a random sample of project tree sites using the Single Tree Quantification Tool. Project Operators must visit those sampled tree sites and collect data on whether the sample contains a live tree, standing dead tree, or no tree. Provide geocoded photos or imaging of a minimum sample of 20% of the trees. The tracking file includes a column where each tree is assigned a unique serial number to help with tracking each coordinate and tree picture or image.*
        i. *Based on this data, the number and species of project trees is adjusted and a new CO_2 projected amount by after Year 25 is generated.*

2) *Clustered*
    a. *Year 4: Project Operators provide images of the Project Area from any telemetry, imaging, remote sensing, i-Tree Canopy, or UAV service, such as Google Earth and estimate the area in tree canopy cover (acres). Imaging from Google Earth with leaf-on may be used. Project Operators will calculate the percent of canopy cover from the Google Earth imaging. Projects can use i-Tree Canopy and point sampling to calculate canopy cover. Using i-Tree Canopy, continue adding points until the standard error of the estimate for both the tree and non-tree cover is less than 5%. i-Tree Canopy will supply you with the standard errors. If tree canopy cover is determined using another approach, such as image classification, a short description of the approach should be provided, as well as the QA/QC measures that were used. A tree cover classification accuracy assessment should be conducted, as with randomly placed points, and the percentage tree cover classification accuracy reported.*
        i. *If the canopy coverage equals or exceeds 2.8% (400 trees per acre with an average canopy area of 3.14 square feet per tree (2-foot diameter of canopy) is 2.8% of an acre), then the credits projected in the Clustered Quantification Tool may be issued. If canopy coverage is below 2.8%, then the number of credits issued is reduced by the same percentage as the canopy coverage falls below 2.8%.*

3) *Area Reforestation (formerly Canopy planting design)*
    a. *Year 4: Project Operators must either conduct a physical tree count using plots or use imaging to determine canopy coverage at Year 4.*
        i. *If the canopy coverage equals or exceeds 2.8% (400 trees per acre with an average canopy area of 3.14 square feet per tree (2-foot diameter of canopy) is 2.8% of an acre), then the credits projected in the Quantification Tool may be issued. If canopy coverage is below 2.8%, then the number of credits issued is reduced by the same percentage as the canopy coverage falls below 2.8%.*

Overview

2,121 trees have been planted for carbon credits across ~62 acres. This project utilizes the clustered quantification methodology. Trees were installed from September, 2019 through October, 2021. White oak (*Quercus alba*), bur oak (*Quercus macrocarpa*) and American plum (*Prunus americana*) were the most-planted species throughout project areas.

Data Collection

For the clustered methodology, pre-project and current aerial photographs were utilized in GIS for sampling. Due to the change from single tree to clustered quantification, some original planting polygons were removed from the project, due to existing tree canopy with obstructed aerial photo interpretation. Additionally, the original planting polygons were modified to reflect the minimum area planted – when previously, the entire habitat restoration area was included in the polygon, even if the majority of the area was not actually planted. ArcGIS was utilized for mapping planting polygons and for the generation of random points, both pre-project and Year 4 (unique points for each). 541 random points were assessed for tree presence at each point and recorded in GIS. 5.91% of the pre-project points contained canopy, whereas 29.02% of the Year 4 points contained canopy. The 5.91% existing canopy cover before the project started was deducted from the overall total credits issued to the project.

There has not been any known, significant tree mortality to date.

Attachments: 2 LCFPD Midwest Quantification_Year 4
3 LCFPD Canopy Analysis_Year 4

Carbon Quantification

Total number of trees planted	2,121
Project area (acres), if applicable	62
Total number of trees per acre, if applicable	NA
Credits attributed to the project (tCO2e)	5,459
Credits after mortality deduction (20% or insert observed mortality, if greater)	4,367
Credits after Year 0 existing canopy deduction	4,109
Contribution to Registry Reversal Pool Account (5%) (tCO2e)	205
Total credits to be issued to the Project Operator (tCO2e)	3,904
Total credits requested to be issued at Year 4	1,561 (**1,337** to be issued in year 4 to account for initial crediting discrepancy)

GHG Assertion:

Project Operator asserts that the Project results in GHG emissions mitigation of 3,904 tons CO_2e over the 25-year Project Duration. Project Operator asserts that, per Protocol guidelines, 40% of the Project GHG emissions mitigation is issued at Year 4, or 1,337 tons CO_2e.

Due to the change from single-tree methodology and quantification to the clustered methodology, the total credits issued to the project has been reduced to 3,904.

The updated Projected CO_2 stored and credit issuance over 26 years is outlined below:

Single Tree Plantings	Projection at Initial Crediting	Updated Projection at Year 4
Total credits issued at Initial Crediting (10% CO2 (t))	615	390
Total credits to be issued at Year 4 (40% CO2 (t))	2462	1,561 (**1,337** to be issued in year 4 to account for initial crediting discrepancy)
Total credits to be issued at Year 6 (30% CO2 (t))	1846	1,171
Total credits to be issued at Year 26 (20% CO2 (t))	1231	781
Total credits to be issued (tCO2e)	**6,154**	**3,904**

Attachment: 2 LCFPD Midwest Quantification_Year 4

CO-BENEFITS QUANTIFICATION DOCUMENTATION (Section 12 and Appendix A)

Summarize co-benefit quantification and provide supporting documentation. If necessary, update the CFC-provided Co-Benefits Quantification spreadsheet to calculate updated rainfall interception, reduction of certain air compounds, and energy savings.

Ecosystem Services	***Resource Units***	***Value***
Rainfall Interception (m3/yr)	10,240	$73,310
Air Quality (t/yr)	0.3171	$1,484
Cooling – Electricity (kWh/yr)	310,504	$23,567
Heating – Natural Gas (kBtu/yr)	4,632,949	$45,101
Grand Total ($/yr)		**$143,462**

Attachment: 2 LCFPD Midwest Quantification_Year 4

ADDITIONALITY (Section 4)

Complete and attach the Attestation of Additionality.

Additionality is demonstrated by Project Operators per the Protocol in the following ways and in the Attestation of Additionality. The Attestation of Additionality was not required to be signed in the Tree Planting Protocol Version [insert version number], however Project Operator met the requirements and is submitting the Attestation with this Project Design Document update.

- Project trees are not required by law or ordinance to be planted (Protocol Section 2.2). See Attestation of Planting.
- The Project did not plant trees on sites that were forested and then cleared of trees within the prior ten years
- Project trees are additional based on a project specific baseline or the Performance Standard Baseline attached to this PDD.
- Project Operator has signed a Project Implementation Agreement with City Forest Credits for 25 years.
- The 25-year Project Duration commitment is additional to and longer than any commitment the Project Operator makes to non-carbon project tree plantings.
- Project Operator has signed the Attestation of Additionality.

Attachment: 4 LCFPD Year 4 Attestation of Additionality

ADDITIONAL INFORMATION

Include additional information on changes to monitoring and reporting plans since the Initial Credit Planting Design Document was submitted.

Unfortunately, the quantification methodology used on the original application was disadvantageous for the Year 4 monitoring effort. Detailed monitoring requirements were not well understood at the time of the original application, otherwise the project design and quantification methodology may have been conducted differently. Despite reducing the number of trees and acres to conform to the 'clustered' method, LCFPD remains committed to fulfilling the obligations of this project, even if the credits are reduced. LCFPD appreciates working with City Forest Credits and their patience and support throughout this process.

SIGNATURE

Signed on July 31th in 2024, by Matthew Ueltzen, for Lake County Forest Preserve District.

Signature

MATTHEW UELTZEN

Printed Name

847-968-3290

Phone

mueltzen@LCFPD.org
Email

ATTACHMENTS

For the Single Tree Planting Design:

1 - Carbon Quantification Year 4 Credit tool
2 - Tree Sampling Data
3 - Geocoded photos
4 - Project geospatial data (KML file or shapefile)

For the Cluster Planting Design

1 - Project Area imaging from any telemetry, imaging, or remote sensing service
2 - i-Tree Canopy report
3 - i-Tree Canopy source data
4 - Project geospatial data (KML file or shapefile)
5 - Carbon Quantification Year 4 Credit tool

For the Area Reforestation Planting Design (previously Canopy Design):

- Either:
    1 - Project Area imaging from any telemetry, imaging, or remote sensing service
    2 - i-Tree Canopy report
    3 - i-Tree Canopy source data
- Or:
    1 - Tree plot sampling data

2 - Project geospatial data (KML file or shapefile)
3 - Carbon Quantification Year 4 Credit tool
4 - Summary of approach to quantifying the local CO_2 index

Directions

1) In Table 1 record the number of sites planted for each tree species.
2) If species are not listed, add them to the bottom of Table 1.

Table 1. Planting List

Scientific Name	Common Name	Tree-Type Abbreviation	No. Sites Planted
Acer ginnala	Amur maple	BDS	
Acer negundo	boxelder	BDM	
Acer nigrum	black maple	BDL	
Acer palmatum	Japanese maple	BDS	
Acer platanoides	Norway maple	BDL	
Acer rubrum	red maple	BDL	
Acer saccharinum	silver maple	BDL	
Acer saccharum	sugar maple	BDL	
Acer species	maple	BDL	
Aesculus glabra	Ohio buckeye	BDL	
Albizia julibrissin	mimosa	BDS	
Alnus species	alder	BDM	
Amelanchier laevis	serviceberry, Allegheny	BDS	
Amelanchier spp.	serviceberry, spp.	BDS	9
Betula nigra	river birch	BDM	
Betula papyrifera	paper birch	BDL	
Betula species	birch	BDM	
Broadleaf Deciduous Large	broadleaf deciduous large	BDL	
Broadleaf Deciduous Medium	broadleaf deciduous medium	BDM	
Broadleaf Deciduous Small	broadleaf deciduous small	BDS	
Broadleaf Evergreen Large	broadleaf evergreen large	BEL	
Broadleaf Evergreen Medium	broadleaf evergreen medium	BEM	
Broadleaf Evergreen Small	broadleaf evergreen small	BES	
Carpinus caroliniana	Musclewood	BDS	38
Carya species	hickory	BDL	66
Castanea dentata	American chestnut	BDL	
Catalpa species	catalpa	BDL	
Catalpa speciosa	northern catalpa	BDL	
Celtis occidentalis	northern hackberry	BDL	29
Cercis canadensis	eastern redbud	BDS	
Cladrastis kentukea	yellowwood	BDM	
Conifer Evergreen Large	conifer evergreen large	CEL	
Conifer Evergreen Medium	conifer evergreen medium	CEM	
Conifer Evergreen Small	conifer evergreen small	CES	
Cornus florida	flowering dogwood	BDS	
Cornus species	dogwood	BDS	38
Crataegus spp.	hawthorn, spp.	BDS	138
Fraxinus americana	white ash	BDL	
Fraxinus nigra	black ash	BDM	
Fraxinus pennsylvanica	green ash	BDL	
Fraxinus species	ash	BDM	
Ginkgo biloba	ginkgo	BDM	
Gleditsia triacanthos	honeylocust	BDM	
Gymnocladus dioicus	Kentucky coffeetree	BDL	
Hamamelis virginiana	Witch Hazel	BDS	6
Hibiscus syriacus	rose-of-sharon	BDS	
Ilex opaca	American holly	BES	
Ilex species	holly	BES	24
Juglans nigra	black walnut	BDL	3
Juniperus species	juniper	CEM	
Juniperus virginiana	eastern red cedar	CEM	
Liquidambar styraciflua	sweetgum	BDL	
Liriodendron tulipifera	tulip tree	BDL	
Magnolia grandiflora	southern magnolia	BEM	
Magnolia virginiana	sweetbay	BEM	
Malus species	apple	BDS	155
Morus alba	white mulberry	BDM	
Morus species	mulberry	BDM	
Ostrya virginiana	eastern hophornbeam	BDM	33
Phellodendron amurense	Amur corktree	BDM	
Picea abies	Norway spruce	CEL	
Picea mariana	black spruce	CEM	
Picea pungens	blue spruce	CEM	
Picea species	spruce	CEL	
Pinus contorta	Bolander beach pine	CES	
Pinus nigra	Austrian pine	CEM	
Pinus ponderosa	ponderosa pine	CEL	
Pinus resinosa	red pine	CEL	
Pinus strobus	eastern white pine	CEL	
Pinus sylvestris	Scotch pine	CEM	
Pinus virginiana	Virginia pine	CEM	
Platanus occidentalis	American sycamore	BDL	
Populus deltoides	eastern cottonwood	BDL	
Populus nigra	black poplar	BDL	
Populus species	cottonwood	BDL	7
Populus tremuloides	quaking aspen	BDL	
Prunus cerasifera	cherry plum	BDS	
Prunus serotina	black cherry	BDL	10
Prunus serrulata	Kwanzan cherry	BDS	
Prunus species	plum	BDS	239
Prunus virginiana	common chokecherry	BDS	103
Pyrus calleryana	Callery pear	BDM	
Pyrus species	pear	BDM	

Table 2. Summary of Planting Sites

Tree-Type	Tree-Type Abbreviation	No. Sites Planted
Brdlf Decid Large (>50 ft)	**BDL**	1196
Brdlf Decid Med (30-50 ft)	**BDM**	33
Brdlf Decid Small (<30 ft)	**BDS**	868
Brdlf Evgrn Large (>50 ft)	**BEL**	0
Brdlf Evgrn Med (30-50 ft)	**BEM**	0
Brdlf Evgrn Small (<30 ft)	**BES**	24
Conif Evgrn Large (>50 ft)	**CEL**	0
Conif Evgrn Med (30-50 ft)	**CEM**	0
Conif Evgrn Small (<30 ft)	**CES**	0
	Total Sites Planted	2121

Quercus alba	white oak	BDL	426
Quercus bicolor	swamp white oak	BDL	64
Quercus coccinea	scarlet oak	BDL	
Quercus ellipsoidalis	northern pin oak	BDL	79
Quercus macrocarpa	bur oak	BDL	372
Quercus nigra	water oak	BEL	
Quercus palustris	pin oak	BDL	
Quercus rubra	northern red oak	BDL	65
Quercus species	oak	BDL	75
Rhamnus species	buckthorn	BDS	
Rhus species	sumac	BDS	142
Robinia pseudoacacia	black locust	BDL	
Salix discolor	pussy willow	BDS	
Salix species	willow	BDL	
Sorbus species	mountain ash	BDS	
Syringa reticulata	Japanese tree lilac	BDS	
Syringa species	lilac	BDS	
Thuja occidentalis	northern white cedar	CEL	
Tilia americana	American basswood	BDL	
Tilia cordata	littleleaf linden	BDM	
Tilia species	basswood	BDL	
Tsuga canadensis	eastern hemlock	CEL	
Ulmus americana	American elm	BDL	
Ulmus parvifolia	Chinese elm	BDL	
Ulmus pumila	Siberian elm	BDM	
Ulmus species	elm	BDL	

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Directions

Using the information you provide and background data, the tool calculates the amount of Credits that could be issued at years 1 (10%), 3 (40%), and 5 (30%) after planting. A mortality deductions (% loss) is applied to account for anticipated tree losses (Cell D6). A 5% buffer pool deduction is applied that will go into a program-wide pool to insure against catastrophic loss of trees. This tool is used to determine credits issued after planting (Intial Crediting). A different tool is used for credit issuance in Years 4 and 6. The tool in those years requires calculation of a sample and collection of data on tree status in the sample sites.

Mortality Deduction (%):	20%

Canopy Cover Observed (i-Tree Canopy)	
Year 0 Existing Tree	5.9%
Credit Adjustment	YES

Canopy Cover Observed (i-Tree Canopy)	
Year 4 Percent Tree	29.0%
Year 4 Canopy Goa	2.8%
Credit Adjustment	NO
If Canopy Adjustment Needed:	
Canopy Coverage D	1

Table 3. Credits are based on 10%, 40%, and 30% at Years 1, 3, and 5 after planting, respectively, of the projected CO_2 stored by live trees 25-years after planting. These values account for anticipated tree losses and the 5% buffer pool deduction.

								10%	40%	30%	20%
	No. Sites Planted	No. Live Trees	Mortality Deduction (%)	25-yr CO_2 stored (kg/tree)	Tot. 25-yr CO_2 stored w/ losses and 5% deduction (t)	Year 0 Existing Canopy Deduction	10% CO_2 (t)	40% CO_2 (t)	30% CO_2 (t)	20% CO_2 (t)
BDL	1196	957	0.20	3,978.85	3616.6	3402.9	340.29	1361.15	1020.86	680.57
BDM	33	26	0.20	2,451.33	61.5	57.8	5.78	23.14	17.35	11.57
BDS	868	694	0.20	700.27	462.0	434.7	43.47	173.86	130.40	86.93
BEL	0	0	0.20	0.00	0.0	0.0	0.00	0.00	0.00	0.00
BEM	0	0	0.20	0.00	0.0	0.0	0.00	0.00	0.00	0.00
BES	24	19	0.20	475.12	8.7	8.2	0.82	3.26	2.45	1.63
CEL	0	0	0.20	0.00	0.0	0.0	0.00	0.00	0.00	0.00
CEM	0	0	0.20	0.00	0.0	0.0	0.00	0.00	0.00	0.00
CES	0	0	0.20	0.00	0.0	0.0	0.00	0.00	0.00	0.00
	2121	1697	0.20	7,605.57	4148.7	3903.5	390.35	1561.41	1171.06	780.71
Credits issued					4149	3904	390	1561	1171	781
Buffer Credits					218	205	21	82	62	41

	A	B	C	D	E	F	G	H	I
1		**This copy assigned to Lake County Forest Preserve District. Proprietary and confidential CFC information. Do not forward to third parties without CFC permission.**							
2									
3		In Table 4 the tool infers the amount of CO_2 stored after 25 years from the sample to the population of live trees. Values in column H account for anticipated tree losses and the 5% buffer pool deduction.							
4									
5		**Table 4. Grand Total CO_2 Stored after 25 years (all live trees, includes tree losses and buffer pool deduction)**							
6		**Tree-Type**	**No. Sites Planted**	**Mortality Deduction (%)**	**Total Live Trees After Mortality**	**25-yr CO_2 stored (kg/tree)**	**CO_2 Tot. - No Deductions (t)**	**Grand Total CO_2 w/ Deductions (t)**	**Year 0 Existing Canopy Deduction**
7		**Brdlf Decid Large (>50 ft)**	1196	0.20	957	3,978.85	4,758.7	3,616.6	3402.9
8		**Brdlf Decid Med (30-50 ft)**	33	0.20	26	2,451.33	80.9	61.5	57.8
9		**Brdlf Decid Small (<30 ft)**	868	0.20	694	700.27	607.8	462.0	434.7
10		**Brdlf Evgrn Large (>50 ft)**	0	0.20	0	0.00	0.0	0.0	0.0
11		**Brdlf Evgrn Med (30-50 ft)**	0	0.20	0	0.00	0.0	0.0	0.0
12		**Brdlf Evgrn Small (<30 ft)**	24	0.20	19	475.12	11.4	8.7	8.2
13		**Conif Evgrn Large (>50 ft)**	0	0.20	0	0.00	0.0	0.0	0.0
14		**Conif Evgrn Med (30-50 ft)**	0	0.20	0	0.00	0.0	0.0	0.0
15		**Conif Evgrn Small (<30 ft)**	0	0.20	0	0.00	0.0	0.0	0.0
16			2121		1697	7606	5,458.8	4,148.7	3903.5

Using the information you provide and background data, the tool provides estimates of co-benefits after 25 years in Resource Units per year and $ per year.

Table 7. Co-Benefits per year after 25 years (all live trees, includes tree losses)

Ecosystem Services	Resource Units Totals	Resource Unit/site	Total $	$/site
Rainfall Interception (m3/yr)	10,240.21	4.83	$73,310.30	$34.564
Air Quality (t/yr)				
O3	0.1326	0.0001	$442.98	$0.209
NOx	0.0213	0.0000	$71.10	$0.034
PM10	0.0698	0.0000	$198.11	$0.093
Net VOCs	0.0934	0.0000	$771.99	$0.364
Air Quality Total	0.3171	0.0001	$1,484.19	$0.70
Energy (kWh/yr & kBtu/yr)				
Cooling - Electricity	310,504.07	146.40	$23,567.26	$11.11
Heating - Natural Gas	4,632,948.72	2,184.32	$45,100.51	$21.26
Energy Total ($/yr)			$68,667.77	$32.38
Grand Total ($/yr)			$143,462.26	$67.64
			$3,586,556.50	

Species	GIS Polygon ID #	Latitude	Longitude	Plant Quantities
Malus ioensis	575	42.169023	-88.101797	15
Prunus americana	575	42.169023	-88.101797	50
Rhus glabra	575	42.169023	-88.101797	50
Celtis occidentalis	576	42.34072	-87.866605	10
Crataegus mollis	576	42.34072	-87.866605	30
Malus ioensis	576	42.34072	-87.866605	40
Quercus alba	576	42.34072	-87.866605	20
Quercus macrocarpa	576	42.34072	-87.866605	20
Quercus ellipsoidalis	576	42.34072	-87.866605	30
Cornus obliqua	576	42.34072	-87.866605	25
Prunus americana	576	42.34072	-87.866605	30
Prunus virginiana	576	42.34072	-87.866605	20
Quercus macrocarpa	545	42.326524	-88.126931	1
Quercus macrocarpa	542	42.327617	-88.125323	8
Quercus velutina	542	42.327617	-88.125323	1
Prunus americana	542	42.327617	-88.125323	4
Rhus glabra	542	42.327617	-88.125323	4
Quercus macrocarpa	543	42.327087	-88.122533	4
Prunus americana	543	42.327087	-88.122533	3
Quercus macrocarpa	544	42.326098	-88.12243	2
Quercus macrocarpa	546	42.325324	-88.126387	2
Rhus glabra	546	42.325324	-88.126387	5
Quercus ellipsoidalis	547	42.324846	-88.123916	1
Quercus macrocarpa	547	42.324846	-88.123916	18
Quercus velutina	547	42.324846	-88.123916	2
Prunus americana	547	42.324846	-88.123916	6
Rhus glabra	547	42.324846	-88.123916	9
Quercus macrocarpa	548	42.32345	-88.12229	6
Quercus velutina	548	42.32345	-88.12229	1
Quercus macrocarpa	549	42.321680	-88.121139	2
Rhus glabra	549	42.32168	-88.121139	5
Quercus macrocarpa	551	42.322378	-88.126366	4
Rhus glabra	551	42.322378	-88.126366	5
Quercus macrocarpa	552	42.322044	-88.127810	4
Quercus macrocarpa	550	42.324051	-88.126856	1
Quercus macrocarpa	553	42.323295	-88.127385	1
Quercus macrocarpa	554	42.323779	-88.129054	4
Quercus velutina	554	42.323779	-88.129054	1
Prunus americana	554	42.323779	-88.129054	4
Rhus glabra	554	42.323779	-88.129054	5
Quercus macrocarpa	557	42.322290	-88.130113	1
Quercus macrocarpa	555	42.323238	-88.130916	3
Quercus ellipsoidalis	556	42.322757	-88.132108	1
Quercus macrocarpa	556	42.322757	-88.132108	10
Quercus velutina	556	42.322757	-88.132108	1

Prunus americana	556	42.322757	-88.132108	4
Rhus glabra	556	42.322757	-88.132108	5
Carya ovata	558	42.327953	-88.126298	3
Celtis occidentalis	558	42.327953	-88.126298	2
Quercus alba	558	42.327953	-88.126298	13
Quercus ellipsoidalis	558	42.327953	-88.126298	1
Quercus macrocarpa	558	42.327953	-88.126298	13
Quercus velutina	558	42.327953	-88.126298	3
Prunus americana	558	42.327953	-88.126298	7
Prunus virginiana	558	42.327953	-88.126298	7
Rhus glabra	558	42.327953	-88.126298	8
Carya ovata	559	42.325495	-88.126573	2
Celtis occidentalis	559	42.325495	-88.126573	1
Quercus alba	559	42.325495	-88.126573	6
Quercus ellipsoidalis	559	42.325495	-88.126573	1
Quercus macrocarpa	559	42.325495	-88.126573	7
Quercus velutina	559	42.325495	-88.126573	2
Prunus americana	559	42.325495	-88.126573	7
Prunus virginiana	559	42.325495	-88.126573	7
Rhus glabra	559	42.325495	-88.126573	8
Carya ovata	562	42.322828	-88.128908	2
Celtis occidentalis	562	42.322828	-88.128908	1
Quercus alba	562	42.322828	-88.128908	7
Quercus ellipsoidalis	562	42.322828	-88.128908	1
Quercus macrocarpa	562	42.322828	-88.128908	7
Quercus velutina	562	42.322828	-88.128908	2
Prunus americana	562	42.322828	-88.128908	5
Prunus virginiana	562	42.322828	-88.128908	3
Rhus glabra	562	42.322828	-88.128908	4
Carya ovata	560	42.325376	-88.129551	4
Celtis occidentalis	560	42.325376	-88.129551	3
Quercus alba	560	42.325376	-88.129551	16
Quercus ellipsoidalis	560	42.325376	-88.129551	1
Quercus macrocarpa	560	42.325376	-88.129551	14
Quercus velutina	560	42.325376	-88.129551	4
Prunus americana	560	42.325376	-88.129551	8
Prunus virginiana	560	42.325376	-88.129551	8
Rhus glabra	560	42.325376	-88.129551	8
Carya ovata	561	42.323286	-88.131615	3
Celtis occidentalis	561	42.323286	-88.131615	2
Quercus alba	561	42.323286	-88.131615	10
Quercus ellipsoidalis	561	42.323286	-88.131615	1
Quercus macrocarpa	561	42.323286	-88.131615	11
Quercus velutina	561	42.323286	-88.131615	3
Prunus americana	561	42.323286	-88.131615	5
Prunus virginiana	561	42.323286	-88.131615	6
Rhus glabra	561	42.323286	-88.131615	6

Crataegus mollis	584	42.489775	-87.929414	6
Malus ioensis	584	42.489775	-87.929414	6
Prunus americana	584	42.489775	-87.929414	8
Quercus alba	588	42.491627	-87.930318	2
Quercus macrocarpa	588	42.491627	-87.930318	1
Crataegus mollis	589	42.488952	-87.931787	3
Malus ioensis	589	42.488952	-87.931787	9
Quercus alba	589	42.488952	-87.931787	14
Quercus macrocarpa	589	42.488952	-87.931787	20
Quercus velutina	589	42.488952	-87.931787	8
Prunus americana	589	42.488952	-87.931787	5
Amelanchier laevis	590	42.493152	-87.929401	6
Crataegus mollis	590	42.493152	-87.929401	10
Malus ioensis	590	42.493152	-87.929401	15
Quercus alba	590	42.493152	-87.929401	12
Quercus macrocarpa	590	42.493152	-87.929401	12
Prunus americana	590	42.493152	-87.929401	9
Crataegus mollis	591	42.486591	-87.931922	3
Malus ioensis	591	42.486591	-87.931922	3
Quercus macrocarpa	591	42.486591	-87.931922	6
Crataegus mollis	592	42.486750	-87.932604	2
Quercus macrocarpa	592	42.486750	-87.932604	2
Crataegus mollis	595	42.484847	-87.937030	6
Malus ioensis	595	42.484847	-87.937030	3
Quercus alba	595	42.484847	-87.937030	9
Quercus macrocarpa	595	42.484847	-87.937030	15
Prunus americana	595	42.484847	-87.937030	6
Amelanchier interior	191	42.344943	-88.118817	9
Carya cordiformis	191	42.344943	-88.118817	3
Carya ovata	191	42.344943	-88.118817	4
Crataegus mollis	191	42.344943	-88.118817	7
Malus ioensis	191	42.344943	-88.118817	3
Prunus serotina	191	42.344943	-88.118817	3
Quercus alba	191	42.344943	-88.118817	27
Quercus ellipsoidalis	191	42.344943	-88.118817	3
Quercus macrocarpa	191	42.344943	-88.118817	25
Quercus velutina	191	42.344943	-88.118817	3
Prunus americana	191	42.344943	-88.118817	7
Prunus virginiana	191	42.344943	-88.118817	7
Rhus glabra	191	42.344943	-88.118817	3
Carpinus caroliniana	520	42.325834	-87.944859	5
Carya cordiformis	520	42.325834	-87.944859	3
Carya ovata	520	42.325834	-87.944859	6
Crataegus mollis	520	42.325834	-87.944859	19
Ostrya virginiana	520	42.325834	-87.944859	4
Prunus serotina	520	42.325834	-87.944859	2
Quercus alba	520	42.325834	-87.944859	65

Quercus ellipsoidalis	520	42.325834	-87.944859	3
Quercus macrocarpa	520	42.325834	-87.944859	11
Quercus rubra	520	42.325834	-87.944859	15
Quercus velutina	520	42.325834	-87.944859	7
Prunus virginiana	520	42.325834	-87.944859	36
Carya cordiformis	211	42.325714	-87.946621	5
Carya ovata	211	42.325714	-87.946621	3
Crataegus mollis	211	42.325714	-87.946621	8
Ostrya virginiana	211	42.325714	-87.946621	5
Prunus serotina	211	42.325714	-87.946621	2
Prunus americana	211	42.325714	-87.946621	6
Prunus virginiana	211	42.325714	-87.946621	9
Quercus alba	211	42.325714	-87.946621	30
Crataegus mollis	636	42.323835	-87.945812	2
Malus ioensis	636	42.323835	-87.945812	2
Quercus alba	636	42.323835	-87.945812	3
Quercus macrocarpa	636	42.323835	-87.945812	3
Crataegus mollis	605	42.254735	-87.887313	1
Malus ioensis	605	42.254735	-87.887313	3
Quercus alba	605	42.254735	-87.887313	2
Crataegus mollis	606	42.255323	-87.887237	1
Quercus ellipsoidalis	606	42.255323	-87.887237	1
Quercus macrocarpa	606	42.255323	-87.887237	2
Crataegus mollis	607	42.257187	-87.890140	2
Quercus macrocarpa	607	42.257187	-87.890140	4
Crataegus mollis	608	42.255946	-87.887717	2
Malus ioensis	608	42.255946	-87.887717	4
Quercus macrocarpa	608	42.255946	-87.887717	2
Malus ioensis	609	42.257636	-87.883229	3
Quercus macrocarpa	609	42.257636	-87.883229	3
Crataegus mollis	610	42.255846	-87.888952	3
Malus ioensis	610	42.255846	-87.888952	3
Quercus macrocarpa	610	42.255846	-87.888952	3
Crataegus mollis	611	42.248812	-87.882045	3
Malus ioensis	611	42.248812	-87.882045	3
Prunus americana	611	42.248812	-87.882045	6
Crataegus mollis	612	42.241423	-87.881364	3
Malus ioensis	612	42.241423	-87.881364	3
Quercus macrocarpa	612	42.241423	-87.881364	3
Crataegus mollis	613	42.241423	-87.881364	3
Malus ioensis	613	42.241423	-87.881364	2
Quercus macrocarpa	613	42.241423	-87.881364	3
Prunus americana	613	42.241423	-87.881364	3
Crataegus mollis	614	42.241423	-87.881364	3
Prunus americana	614	42.241423	-87.881364	6
Crataegus mollis	616	42.241423	-87.881364	3
Malus ioensis	616	42.241423	-87.881364	2

Quercus macrocarpa	616	42.241423	-87.881364	3
Prunus americana	616	42.241423	-87.881364	3
Crataegus mollis	617	42.241423	-87.881364	3
Prunus americana	617	42.241423	-87.881364	6
Crataegus mollis	615	42.255465	-87.886782	2
Prunus americana	615	42.255465	-87.886782	2
Crataegus mollis	629	42.242234	-87.883216	2
Quercus macrocarpa	629	42.242234	-87.883216	1
Crataegus mollis	634	42.247407	-87.882100	3
Cornus obliqua	634	42.247407	-87.882100	2
Prunus americana	634	42.247407	-87.882100	3
Crataegus mollis	474	42.277941	-87.893397	5
Malus ioensis	474	42.277941	-87.893397	10
Prunus serotina	474	42.277941	-87.893397	1
Quercus alba	474	42.277941	-87.893397	2
Quercus macrocarpa	474	42.277941	-87.893397	2
Prunus americana	474	42.277941	-87.893397	5
Quercus bicolor	526	42.274762	-87.937400	13
Celtis occidentalis	1475	42.273058	-87.935309	3
Quercus bicolor	1475	42.273058	-87.935309	16
Quercus macrocarpa	1475	42.273058	-87.935309	3
Quercus rubra	1475	42.273058	-87.935309	3
Ilex verticillata	1475	42.273058	-87.935309	14
Carpinus caroliniana	59	42.272836	-87.933461	23
Carya cordiformis	59	42.272836	-87.933461	5
Celtis occidentalis	59	42.272836	-87.933461	3
Juglans nigra	59	42.272836	-87.933461	3
Ostrya virginiana	59	42.272836	-87.933461	22
Populus grandidentata	59	42.272836	-87.933461	5
Quercus bicolor	59	42.272836	-87.933461	5
Quercus macrocarpa	59	42.272836	-87.933461	5
Quercus rubra	59	42.272836	-87.933461	24
Hamamelis virginiana	59	42.272836	-87.933461	6
Carya ovata	527	42.272360	-87.932259	7
Quercus alba	527	42.272360	-87.932259	45
Quercus ellipsoidalis	527	42.272360	-87.932259	4
Quercus macrocarpa	527	42.272360	-87.932259	4
Quercus rubra	527	42.272360	-87.932259	6
Quercus velutina	527	42.272360	-87.932259	8
Carpinus caroliniana	649	42.209215	-87.919217	3
Crataegus mollis	649	42.209215	-87.919217	2
Malus ioensis	649	42.209215	-87.919217	3
Quercus alba	649	42.209215	-87.919217	5
Quercus bicolor	649	42.209215	-87.919217	10
Quercus macrocarpa	649	42.209215	-87.919217	5
Ilex verticillata	649	42.209215	-87.919217	4
Prunus americana	649	42.209215	-87.919217	2

Carpinus caroliniana	638	42.210321	-87.925677	3
Carya cordiformis	638	42.210321	-87.925677	1
Crataegus mollis	638	42.210321	-87.925677	1
Ostrya virginiana	638	42.210321	-87.925677	2
Prunus serotina	638	42.210321	-87.925677	1
Quercus alba	638	42.210321	-87.925677	2
Quercus velutina	638	42.210321	-87.925677	1
Hamamelis virginiana	638	42.210321	-87.925677	3
Crataegus mollis	639	42.209890	-87.926263	1
Quercus bicolor	639	42.209890	-87.926263	3
Quercus macrocarpa	639	42.209890	-87.926263	2
Salix nigra	639	42.209890	-87.926263	2
Cornus obliqua	639	42.209890	-87.926263	2
Quercus bicolor	644	42.209438	-87.924830	3
Quercus macrocarpa	644	42.209438	-87.924830	1
Ilex verticillata	644	42.209438	-87.924830	2
Quercus bicolor	600	42.217968	-87.925096	1
Ilex verticillata	600	42.217968	-87.925096	3
Carpinus caroliniana	601	42.216993	-87.925668	3
Quercus bicolor	601	42.216993	-87.925668	3
Quercus macrocarpa	601	42.216993	-87.925668	2
Ilex verticillata	601	42.216993	-87.925668	3
Carpinus caroliniana	602	42.217111	-87.926968	2
Quercus macrocarpa	602	42.217111	-87.926968	1
Carpinus caroliniana	603	42.215164	-87.926467	3
Quercus bicolor	603	42.215164	-87.926467	2
Quercus macrocarpa	603	42.215164	-87.926467	2
Cornus alternifolia	603	42.215164	-87.926467	5
Ilex verticillata	603	42.215164	-87.926467	3
Carpinus caroliniana	637	-87.928247	42.219629	2
Crataegus mollis	637	-87.928247	42.219629	2
Malus ioensis	637	-87.928247	42.219629	3
Ostrya virginiana	637	-87.928247	42.219629	1
Quercus alba	637	-87.928247	42.219629	1
Quercus macrocarpa	637	-87.928247	42.219629	3
Quercus rubra	637	-87.928247	42.219629	1
Quercus velutina	637	-87.928247	42.219629	1
Prunus americana	637	-87.928247	42.219629	3
Carpinus caroliniana	640	42.220670	-87.926052	1
Quercus bicolor	640	42.220670	-87.926052	1
Quercus bicolor	640	42.220670	-87.926052	2
Quercus macrocarpa	640	42.220670	-87.926052	1
Carya cordiformis	641	42.220791	-87.926007	1
Malus ioensis	641	42.220791	-87.926007	2
Ostrya virginiana	641	42.220791	-87.926007	1
Quercus alba	641	42.220791	-87.926007	1
Quercus macrocarpa	641	42.220791	-87.926007	1

Carpinus caroliniana	642	42.216535	-87.928336	4
Carya cordiformis	642	42.216535	-87.928336	3
Carya ovata	642	42.216535	-87.928336	2
Crataegus mollis	642	42.216535	-87.928336	2
Malus ioensis	642	42.216535	-87.928336	3
Ostrya virginiana	642	42.216535	-87.928336	2
Populus grandidentata	642	42.216535	-87.928336	2
Prunus serotina	642	42.216535	-87.928336	1
Quercus alba	642	42.216535	-87.928336	3
Quercus bicolor	642	42.216535	-87.928336	6
Quercus macrocarpa	642	42.216535	-87.928336	6
Quercus rubra	642	42.216535	-87.928336	1
Quercus velutina	642	42.216535	-87.928336	1
Cornus alternifolia	642	42.216535	-87.928336	3
Cornus obliqua	642	42.216535	-87.928336	3
Prunus americana	642	42.216535	-87.928336	6
Carpinus caroliniana	643	42.216094	-87.928010	3
Quercus bicolor	643	42.216094	-87.928010	14
Quercus macrocarpa	643	42.216094	-87.928010	5
Cornus alternifolia	643	42.216094	-87.928010	2
Cornus obliqua	643	42.216094	-87.928010	3
Ilex verticillata	643	42.216094	-87.928010	6
Amelanchier laevis	1479	42.216342	-87.858005	5
Carpinus caroliniana	1479	42.216342	-87.858005	6
Crataegus mollis	1479	42.216342	-87.858005	5
Malus ioensis	1479	42.216342	-87.858005	8
Ostrya virginiana	1479	42.216342	-87.858005	4
Cornus obliqua	1479	42.216342	-87.858005	5
Ilex verticillata	1479	42.216342	-87.858005	10
Prunus americana	1479	42.216342	-87.858005	12
Celtis occidentalis	1463	42.259594	-88.095252	3
Quercus alba	1463	42.259594	-88.095252	3
Quercus ellipsoidalis	1463	42.259594	-88.095252	1
Quercus macrocarpa	1463	42.259594	-88.095252	6
Quercus velutina	1463	42.259594	-88.095252	1
Prunus americana	1463	42.259594	-88.095252	6
Celtis occidentalis	1468	42.258913	-88.092584	1
Quercus alba	1468	42.258913	-88.092584	2
Quercus ellipsoidalis	1468	42.258913	-88.092584	1
Quercus macrocarpa	1468	42.258913	-88.092584	5
Quercus velutina	1468	42.258913	-88.092584	1
Prunus americana	1468	42.258913	-88.092584	3
Carya ovata	1461	42.261246	-88.097430	1
Quercus alba	1461	42.261246	-88.097430	8
Quercus macrocarpa	1461	42.261246	-88.097430	1
Quercus rubra	1461	42.261246	-88.097430	2
Quercus velutina	1461	42.261246	-88.097430	1

Carya ovata	200	42.260800	-88.093169	3
Quercus alba	200	42.260800	-88.093169	29
Quercus ellipsoidalis	200	42.260800	-88.093169	2
Quercus macrocarpa	200	42.260800	-88.093169	3
Quercus rubra	200	42.260800	-88.093169	12
Quercus velutina	200	42.260800	-88.093169	5
Carya ovata	1467	42.259438	-88.092562	1
Quercus alba	1467	42.259438	-88.092562	5
Quercus macrocarpa	1467	42.259438	-88.092562	1
Quercus rubra	1467	42.259438	-88.092562	2
Quercus velutina	1467	42.259438	-88.092562	1
Carya ovata	199	42.257103	-88.103476	2
Crataegus mollis	199	42.257103	-88.103476	5
Malus ioensis	199	42.257103	-88.103476	15
Prunus serotina	199	42.257103	-88.103476	2
Quercus alba	199	42.257103	-88.103476	71
Quercus ellipsoidalis	199	42.257103	-88.103476	9
Quercus macrocarpa	199	42.257103	-88.103476	20
Quercus velutina	199	42.257103	-88.103476	10
Prunus americana	199	42.257103	-88.103476	12
Rhus glabra	199	42.257103	-88.103476	9
Malus ioensis	1456	42.261481	-88.102379	3
Quercus alba	1456	42.261481	-88.102379	2
Quercus macrocarpa	1456	42.261481	-88.102379	1
Malus ioensis	1455	42.260389	-88.102755	6
Prunus serotina	1455	42.260389	-88.102755	1
Quercus alba	1455	42.260389	-88.102755	4
Quercus macrocarpa	1455	42.260389	-88.102755	2
Quercus velutina	1455	42.260389	-88.102755	2
Carya ovata	1452	42.259314	-88.103866	1
Crataegus mollis	1452	42.259314	-88.103866	3
Malus ioensis	1452	42.259314	-88.103866	5
Quercus alba	1452	42.259314	-88.103866	13
Quercus ellipsoidalis	1452	42.259314	-88.103866	7
Quercus macrocarpa	1452	42.259314	-88.103866	15
Quercus velutina	1452	42.259314	-88.103866	3
Prunus americana	1452	42.259314	-88.103866	3
Rhus glabra	1452	42.259314	-88.103866	2
Crataegus mollis	1453	42.260303	-88.101702	2
Malus ioensis	1453	42.260303	-88.101702	3
Quercus alba	1453	42.260303	-88.101702	8
Quercus ellipsoidalis	1453	42.260303	-88.101702	2
Quercus macrocarpa	1453	42.260303	-88.101702	4
Quercus velutina	1453	42.260303	-88.101702	1
Prunus americana	1453	42.260303	-88.101702	2
Crataegus mollis	1460	42.261100	-88.101379	2
Malus ioensis	1460	42.261100	-88.101379	3

Quercus alba	1460	42.261100	-88.101379	2
Quercus ellipsoidalis	1460	42.261100	-88.101379	1
Quercus macrocarpa	1460	42.261100	-88.101379	5
Quercus velutina	1460	42.261100	-88.101379	1
Prunus americana	1460	42.261100	-88.101379	2
Rhus glabra	1460	42.261100	-88.101379	2
Carya ovata	241	42.304574	-88.146749	3
Crataegus mollis	241	42.304574	-88.146749	8
Malus ioensis	241	42.304574	-88.146749	21
Quercus alba	241	42.304574	-88.146749	8
Quercus ellipsoidalis	241	42.304574	-88.146749	8
Quercus macrocarpa	241	42.304574	-88.146749	37
Quercus velutina	241	42.304574	-88.146749	4
Prunus americana	241	42.304574	-88.146749	18
Rhus glabra	241	42.304574	-88.146749	4
Crataegus mollis	1478	42.400496	-88.015113	5
Malus ioensis	1478	42.400496	-88.015113	12
Populus tremuloides	1478	42.400496	-88.015113	2
Prunus serotina	1478	42.400496	-88.015113	1
Quercus alba	1478	42.400496	-88.015113	4
Quercus macrocarpa	1478	42.400496	-88.015113	21
Quercus velutina	1478	42.400496	-88.015113	2
Quercus macrocarpa	1879	42.198575	-87.852763	40
Quercus alba	1879	42.198575	-87.852763	5
Quercus bicolor	1879	42.198575	-87.852763	5
Quercus macrocarpa	1881	42.272718	-87.933210	15
Quercus alba	1881	42.272718	-87.933210	70
Quercus macrocarpa	1884	42.268011	-87.924377	25
Quercus alba	1884	42.268011	-87.924377	25
Quercus macrocarpa	1880	42.340727	-87.862508	50
Quercus alba	1880	42.340727	-87.862508	69
Quercus macrocarpa	1882	42.215742	-87.934835	50
Quercus alba	1882	42.215742	-87.934835	50
Quercus macrocarpa	1883	42.171204	-88.102205	6
Quercus alba	1883	42.171204	-88.102205	6
Quercus macrocarpa	1886	42.439292	-88.080576	50
Quercus alba	1886	42.439292	-88.080576	50

ORIGINAL TOTAL	2960
TOTAL YELLOW	223
TOTAL ORANGE	616
PROPOSED UPDATED TOTAL	2121

Preserve	Installation Date
Cuba Marsh	9/3/2019
Cuba Marsh	9/3/2019
Cuba Marsh	9/3/2019
Greenbelt	9/15/2109
Greenbelt	9/15/2109
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Greenbelt	9/15/2109
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Kettle Grove	10/1/2019
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Kestrel Ridge	9/1/2020
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Independence Grove	9/8/2020
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Middlefork Savanna	9/15/2020
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Old School	10/4/2021	
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Prairie Wolf	10/18/2021
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Lakewood	9/27/2021
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This polygon was shown in yellow on City Forest Credit's review, but should remain, i.e. DO NOT REMOVE

Lakewood	9/27/2021
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Singing Hills	9/13/2021
Singing Hills	9/13/2021
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Singing Hills	9/13/2021
Singing Hills	9/13/2021
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Singing Hills	9/13/2021
Singing Hills	9/13/2021
Fourth Lake	9/15/2021
Fourth Lake	9/15/2021
Fourth Lake	9/15/2021
Fourth Lake	9/15/2021
Fourth Lake	9/15/2021
Fourth Lake	9/15/2021
Fourth Lake	9/15/2021
Prairie Wolf	10/1/2020
Prairie Wolf	10/1/2020
Prairie Wolf	10/1/2020
Old School	10/1/2020
Old School	10/1/2020
Old School	10/1/2020
Old School	10/1/2020
Greenbelt	10/1/2020
Greenbelt	10/1/2020
Half Day	10/1/2020
Half Day	10/1/2020
Cuba Marsh	10/1/2020
Cuba Marsh	10/1/2020
Sun Lake	10/1/2020
Sun Lake	10/1/2020

(Recommended removals from CFC, due to tree canopy)
(Additional removals recommended by LCFPD, due to difficulty in aerial photo monitoring, i.e. can

opy, small planting material, etc.)

Species	Plant Quantities
Amelanchier interior	9
Carpinus caroliniana	38
Carya cordiformis	19
Carya ovata	47
Celtis occidentalis	29
Cornus alternifolia	5
Cornus obliqua	33
Crataegus mollis	138
Hamamelis virginiana	6
Ilex verticillata	24
Juglans nigra	3
Malus ioensis	155
Ostrya virginiana	33
Populus grandidentata	7
Prunus americana	239
Prunus serotina	10
Prunus virginiana	103
Quercus alba	426
Quercus bicolor	64
Quercus ellipsoidalis	79
Quercus macrocarpa	372
Quercus rubra	65
Quercus velutina	75
Rhus glabra	142
YEAR 4 TOTAL	**2121**

Species	GIS Polygon ID #	Latitude	Longitude	Plant Quantities
Crataegus mollis	474	42.277941	-87.893397	5
Malus ioensis	474	42.277941	-87.893397	10
Prunus americana	474	42.277941	-87.893397	5
Prunus serotina	474	42.277941	-87.893397	1
Quercus alba	474	42.277941	-87.893397	2
Quercus macrocarpa	474	42.277941	-87.893397	2
Amelanchier laevis	590	42.493152	-87.929401	6
Crataegus mollis	590	42.493152	-87.929401	10
Malus ioensis	590	42.493152	-87.929401	15
Prunus americana	590	42.493152	-87.929401	9
Quercus alba	590	42.493152	-87.929401	12
Quercus macrocarpa	590	42.493152	-87.929401	12
Ilex verticillata	600	42.217968	-87.925096	3
Quercus bicolor	600	42.217968	-87.925096	1
Carpinus caroliniana	601	42.216993	-87.925668	3
Ilex verticillata	601	42.216993	-87.925668	3
Quercus bicolor	601	42.216993	-87.925668	3
Quercus macrocarpa	601	42.216993	-87.925668	2
Carpinus caroliniana	602	42.217111	-87.926968	2
Quercus macrocarpa	602	42.217111	-87.926968	1
Carpinus caroliniana	603	42.215164	-87.926467	3
Cornus alternifolia	603	42.215164	-87.926467	5
Ilex verticillata	603	42.215164	-87.926467	3
Quercus bicolor	603	42.215164	-87.926467	2
Quercus macrocarpa	603	42.215164	-87.926467	2
Crataegus mollis	613	42.241423	-87.881364	3
Malus ioensis	613	42.241423	-87.881364	2
Quercus macrocarpa	613	42.241423	-87.881364	3
Prunus americana	613	42.241423	-87.881364	3
Crataegus mollis	614	42.241423	-87.881364	3
Prunus americana	614	42.241423	-87.881364	6
Carpinus caroliniana	638	42.210321	-87.925677	3
Carya cordiformis	638	42.210321	-87.925677	1
Crataegus mollis	638	42.210321	-87.925677	1
Hamamelis virginiana	638	42.210321	-87.925677	3
Ostrya virginiana	638	42.210321	-87.925677	2
Prunus serotina	638	42.210321	-87.925677	1
Quercus alba	638	42.210321	-87.925677	2
Quercus velutina	638	42.210321	-87.925677	1
Crataegus mollis	639	42.209890	-87.926263	1
Quercus bicolor	639	42.209890	-87.926263	3
Quercus macrocarpa	639	42.209890	-87.926263	2
Salix nigra	639	42.209890	-87.926263	2
Cornus obliqua	639	42.209890	-87.926263	2
Quercus bicolor	644	42.209438	-87.924830	3

Quercus macrocarpa	644	42.209438	-87.924830	1
Ilex verticillata	644	42.209438	-87.924830	2
Carpinus caroliniana	637	-87.928247	42.219629	2
Crataegus mollis	637	-87.928247	42.219629	2
Malus ioensis	637	-87.928247	42.219629	3
Ostrya virginiana	637	-87.928247	42.219629	1
Quercus alba	637	-87.928247	42.219629	1
Quercus macrocarpa	637	-87.928247	42.219629	3
Quercus rubra	637	-87.928247	42.219629	1
Quercus velutina	637	-87.928247	42.219629	1
Prunus americana	637	-87.928247	42.219629	3
Carpinus caroliniana	640	42.220670	-87.926052	1
Quercus bicolor	640	42.220670	-87.926052	1
Quercus bicolor	640	42.220670	-87.926052	2
Quercus macrocarpa	640	42.220670	-87.926052	1
Carya cordiformis	641	42.220791	-87.926007	1
Malus ioensis	641	42.220791	-87.926007	2
Ostrya virginiana	641	42.220791	-87.926007	1
Quercus alba	641	42.220791	-87.926007	1
Quercus macrocarpa	641	42.220791	-87.926007	1
Malus ioensis	1455	42.260389	-88.102755	6
Prunus serotina	1455	42.260389	-88.102755	1
Quercus alba	1455	42.260389	-88.102755	4
Quercus macrocarpa	1455	42.260389	-88.102755	2
Quercus velutina	1455	42.260389	-88.102755	2
Malus ioensis	1456	42.261481	-88.102379	3
Quercus alba	1456	42.261481	-88.102379	2
Quercus macrocarpa	1456	42.261481	-88.102379	1
Crataegus mollis	1478	42.400496	-88.015113	5
Malus ioensis	1478	42.400496	-88.015113	12
Populus tremuloides	1478	42.400496	-88.015113	2
Prunus serotina	1478	42.400496	-88.015113	1
Quercus alba	1478	42.400496	-88.015113	4
Quercus macrocarpa	1478	42.400496	-88.015113	21
Quercus velutina	1478	42.400496	-88.015113	2
Amelanchier laevis	1479	42.216342	-87.858005	5
Carpinus caroliniana	1479	42.216342	-87.858005	6
Cornus obliqua	1479	42.216342	-87.858005	5
Crataegus mollis	1479	42.216342	-87.858005	5
Ilex verticillata	1479	42.216342	-87.858005	10
Malus ioensis	1479	42.216342	-87.858005	8
Ostrya virginiana	1479	42.216342	-87.858005	4
Prunus americana	1479	42.216342	-87.858005	12
Quercus macrocarpa	1879	42.198575	-87.852763	40
Quercus alba	1879	42.198575	-87.852763	5
Quercus bicolor	1879	42.198575	-87.852763	5
Quercus macrocarpa	1880	42.340727	-87.862508	50

Quercus alba	1880	42.340727	-87.862508	69
Quercus macrocarpa	1881	42.272718	-87.933210	15
Quercus alba	1881	42.272718	-87.933210	70
Quercus macrocarpa	1882	42.215742	-87.934835	50
Quercus alba	1882	42.215742	-87.934835	50
Quercus macrocarpa	1883	42.171204	-88.102205	6
Quercus alba	1883	42.171204	-88.102205	6
Quercus alba	1884	42.268011	-87.924377	25
Quercus macrocarpa	1884	42.268011	-87.924377	25
Quercus macrocarpa	1886	42.439292	-88.080576	50
Quercus alba	1886	42.439292	-88.080576	50
				839

Preserve	Installation Date	
Middlefork Savanna	9/15/2020	BDS
Middlefork Savanna	9/15/2020	BDS
Middlefork Savanna	9/15/2020	BDS
Middlefork Savanna	9/15/2020	BDL
Middlefork Savanna	9/15/2020	BDL
Middlefork Savanna	9/15/2020	BDL
Van Patten	10/1/2020	BDS
Van Patten	10/1/2020	BDS
Van Patten	10/1/2020	BDS
Van Patten	10/1/2020	BDS
Van Patten	10/1/2020	BDL
Van Patten	10/1/2020	BDL
Wright Woods	10/11/2021	BES
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BES
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BES
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Middlefork Savanna	9/15/2020	BDS
Middlefork Savanna	9/15/2020	BDS
Middlefork Savanna	9/15/2020	BDL
Middlefork Savanna	9/15/2020	BDS
Middlefork Savanna	9/15/2020	BDS
Middlefork Savanna	9/15/2020	BDS
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDM
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDL

Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BES
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDM
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDS
Wright Woods	10/11/2021	BDM
Wright Woods	10/11/2021	BDL
Wright Woods	10/11/2021	BDL
Lakewood	9/20/2021	BDS
Lakewood	9/20/2021	BDL
Lakewood	9/20/2021	BDL
Lakewood	9/20/2021	BDL
Lakewood	9/20/2021	BDL
Lakewood	9/20/2021	BDS
Lakewood	9/20/2021	BDL
Lakewood	9/20/2021	BDL
Fourth Lake	9/15/2021	BDS
Fourth Lake	9/15/2021	BDS
Fourth Lake	9/15/2021	BDL
Fourth Lake	9/15/2021	BDL
Fourth Lake	9/15/2021	BDL
Fourth Lake	9/15/2021	BDL
Fourth Lake	9/15/2021	BDL
Prairie Wolf	10/18/2021	BDS
Prairie Wolf	10/18/2021	BDS
Prairie Wolf	10/18/2021	BDS
Prairie Wolf	10/18/2021	BDS
Prairie Wolf	10/18/2021	BES
Prairie Wolf	10/18/2021	BDS
Prairie Wolf	10/18/2021	BDM
Prairie Wolf	10/18/2021	BDS
Prairie Wolf	10/1/2020	BDL
Prairie Wolf	10/1/2020	BDL
Prairie Wolf	10/1/2020	BDL
Greenbelt	10/1/2020	BDL

Greenbelt	10/1/2020	BDL
Old School	10/1/2020	BDL
Old School	10/1/2020	BDL
Half Day	10/1/2020	BDL
Half Day	10/1/2020	BDL
Cuba Marsh	10/1/2020	BDL
Cuba Marsh	10/1/2020	BDL
Old School	10/1/2020	BDL
Old School	10/1/2020	BDL
Sun Lake	10/1/2020	BDL
Sun Lake	10/1/2020	BDL

TOTALS BY TYPE	
BDL	630
BDM	8
BDS	180
BES	21
	839

		Baseline - Year 4				
		Percentage			Area	
	Acres	Tree	Non-Tree	SE	Tree	Non-Tree
Year 0	62.11	5.91%	94.09%	1.01%	3.673789	58.43621
Year 4	62.11	29.02%	70.98%	1.95%	18.02453	44.08547

Cover Class Options: "Tree" OR "Non-Tree"

ID	Cover Class	Latitude	Longitude
1	Non-Tree	-87.93273	42.2735113
2	Non-Tree	-87.93329	42.2731774
3	Non-Tree	-87.9342	42.2733439
4	Non-Tree	-87.93393	42.2735013
5	Non-Tree	-87.93379	42.2730038
6	Non-Tree	-87.93278	42.273628
7	Non-Tree	-87.93381	42.2728947
8	Non-Tree	-87.9334	42.2732225
9	Non-Tree	-87.93302	42.2720088
10	Non-Tree	-87.93359	42.2726093
11	Non-Tree	-88.11796	42.3444675
12	Non-Tree	-88.11824	42.3446748
13	Non-Tree	-88.11827	42.3455692
14	Non-Tree	-88.11802	42.3451948
15	Non-Tree	-88.11915	42.3454771
16	Non-Tree	-88.11832	42.3451005
17	Non-Tree	-88.11848	42.3457016
18	Non-Tree	-88.11869	42.3440128
19	Non-Tree	-88.11837	42.3456583
20	Non-Tree	-88.1189	42.34495
21	Non-Tree	-88.1057	42.2568853
22	Non-Tree	-88.10305	42.255766
23	Non-Tree	-88.10286	42.2575461
24	Non-Tree	-88.10483	42.2574709
25	Non-Tree	-88.10331	42.2576926
26	Non-Tree	-88.10345	42.257203
27	Non-Tree	-88.10345	42.2570139
28	Non-Tree	-88.10268	42.2565539
29	Non-Tree	-88.1035	42.2579326
30	Non-Tree	-88.10211	42.257061
31	Non-Tree	-88.09325	42.261207
32	Non-Tree	-88.09317	42.2615067
33	Tree	-88.09349	42.2613904
34	Tree	-88.09371	42.261211
35	Non-Tree	-88.09298	42.2614386
36	Tree	-88.09326	42.2609429
37	Non-Tree	-88.0925	42.2602698
38	Non-Tree	-88.0933	42.2602829
39	Non-Tree	-88.09351	42.2611903
40	Non-Tree	-88.0936	42.2610978

41	Tree	-87.94645	42.3258723
42	Tree	-87.94619	42.3269718
43	Non-Tree	-87.94693	42.3273583
44	Non-Tree	-87.94699	42.3271306
45	Non-Tree	-87.94646	42.3255255
46	Non-Tree	-87.94635	42.3258369
47	Non-Tree	-87.94708	42.3273488
48	Non-Tree	-87.947	42.3272854
49	Tree	-87.9462	42.3270868
50	Tree	-87.94671	42.3273583
51	Non-Tree	-88.14753	42.3045379
52	Non-Tree	-88.14911	42.3042778
53	Non-Tree	-88.14584	42.3050592
54	Non-Tree	-88.14631	42.305445
55	Non-Tree	-88.14585	42.3045302
56	Non-Tree	-88.14681	42.3054473
57	Non-Tree	-88.14865	42.3050362
58	Non-Tree	-88.1476	42.3051133
59	Non-Tree	-88.14894	42.304104
60	Non-Tree	-88.14742	42.3038593
61	Non-Tree	-87.94467	42.3267637
62	Non-Tree	-87.9444	42.3252354
63	Non-Tree	-87.94452	42.324701
64	Non-Tree	-87.94517	42.3256225
65	Non-Tree	-87.94486	42.3256314
66	Non-Tree	-87.94476	42.325194
67	Non-Tree	-87.94481	42.3259815
68	Non-Tree	-87.94498	42.3269095
69	Non-Tree	-87.94456	42.3260768
70	Non-Tree	-87.9453	42.3266898
71	Non-Tree	-87.93764	42.2748062
72	Non-Tree	-87.93772	42.2745866
73	Non-Tree	-87.93745	42.2747206
74	Non-Tree	-87.93731	42.2749056
75	Non-Tree	-87.93735	42.274556
76	Non-Tree	-87.93747	42.2749317
77	Non-Tree	-87.93752	42.2747891
78	Non-Tree	-87.93763	42.2747345
79	Non-Tree	-87.93747	42.2745156
80	Non-Tree	-87.93758	42.2745415
81	Non-Tree	-87.93204	42.2721847
82	Non-Tree	-87.93172	42.2734226
83	Non-Tree	-87.93321	42.2722418
84	Non-Tree	-87.93154	42.2718863

85	Non-Tree	-87.93215	42.2722495
86	Non-Tree	-87.93155	42.2722975
87	Non-Tree	-87.93226	42.2715736
88	Non-Tree	-87.93143	42.2720277
89	Non-Tree	-87.93311	42.2713828
90	Non-Tree	-87.93305	42.2723742
91	Non-Tree	-88.12478	42.3279552
92	Non-Tree	-88.12609	42.3270765
93	Non-Tree	-88.12444	42.3280787
94	Non-Tree	-88.12374	42.3282105
95	Non-Tree	-88.12389	42.3282426
96	Non-Tree	-88.12401	42.3281886
97	Non-Tree	-88.12452	42.3279783
98	Non-Tree	-88.12471	42.328005
99	Non-Tree	-88.12395	42.3283122
100	Non-Tree	-88.12676	42.3274023
101	Non-Tree	-88.12252	42.3268281
102	Non-Tree	-88.12158	42.3269152
103	Non-Tree	-88.12302	42.3270271
104	Non-Tree	-88.12178	42.326842
105	Non-Tree	-88.12267	42.3268373
106	Non-Tree	-88.12145	42.3269497
107	Non-Tree	-88.12221	42.326743
108	Non-Tree	-88.12188	42.3268283
109	Non-Tree	-88.12299	42.3268988
110	Non-Tree	-88.1229	42.3268065
111	Non-Tree	-88.12277	42.3261014
112	Non-Tree	-88.12268	42.3258117
113	Non-Tree	-88.12275	42.3258516
114	Non-Tree	-88.12284	42.3259256
115	Non-Tree	-88.12268	42.3261837
116	Non-Tree	-88.12265	42.3257413
117	Non-Tree	-88.12693	42.3264745
118	Non-Tree	-88.12594	42.3254672
119	Non-Tree	-88.12617	42.3253958
120	Non-Tree	-88.12679	42.3251223
121	Non-Tree	-88.12585	42.3254922
122	Non-Tree	-88.12655	42.3252172
123	Non-Tree	-88.12641	42.3252849
124	Non-Tree	-88.12607	42.3254238
125	Non-Tree	-88.12669	42.3251448
126	Non-Tree	-88.12359	42.3246514
127	Non-Tree	-88.12408	42.3247885
128	Non-Tree	-88.12391	42.3250861

129	Non-Tree	-88.1236	42.3239004
130	Non-Tree	-88.12329	42.3238778
131	Non-Tree	-88.12348	42.3243782
132	Non-Tree	-88.12341	42.3244819
133	Non-Tree	-88.12324	42.3233939
134	Non-Tree	-88.12334	42.3237477
135	Non-Tree	-88.12331	42.3233175
136	Non-Tree	-88.12187	42.3234817
137	Non-Tree	-88.12186	42.3233589
138	Non-Tree	-88.12221	42.3236527
139	Non-Tree	-88.12204	42.3236238
140	Non-Tree	-88.12212	42.323536
141	Non-Tree	-88.12263	42.3230932
142	Non-Tree	-88.12194	42.3231264
143	Non-Tree	-88.12199	42.3235241
144	Non-Tree	-88.1222	42.3237334
145	Non-Tree	-88.12181	42.3231968
146	Non-Tree	-88.12123	42.3218402
147	Non-Tree	-88.12114	42.3215181
148	Non-Tree	-88.12132	42.3216224
149	Non-Tree	-88.1212	42.3217587
150	Non-Tree	-88.12136	42.3218475
151	Non-Tree	-88.12122	42.3215452
152	Non-Tree	-88.12113	42.3216166
153	Non-Tree	-88.12695	42.3239957
154	Non-Tree	-88.12651	42.3240752
155	Non-Tree	-88.1272	42.3240689
156	Non-Tree	-88.12677	42.3240196
157	Non-Tree	-88.12709	42.3240419
158	Non-Tree	-88.12686	42.323967
159	Non-Tree	-88.12669	42.3240422
160	Non-Tree	-88.12659	42.3240079
161	Non-Tree	-88.12664	42.3222169
162	Non-Tree	-88.12655	42.3220127
163	Non-Tree	-88.12651	42.3218693
164	Non-Tree	-88.12608	42.322372
165	Non-Tree	-88.12621	42.3224443
166	Non-Tree	-88.12672	42.3226288
167	Non-Tree	-88.12563	42.3224031
168	Non-Tree	-88.1259	42.3222422
169	Non-Tree	-88.12669	42.3223791
170	Non-Tree	-88.1264	42.3225286
171	Non-Tree	-88.12773	42.3220797
172	Non-Tree	-88.12763	42.3220327

173	Non-Tree	-88.12764	42.3218748
174	Non-Tree	-88.12843	42.3214126
175	Non-Tree	-88.12766	42.3217749
176	Non-Tree	-88.12772	42.3228679
177	Non-Tree	-88.12805	42.321593
178	Non-Tree	-88.12775	42.3226765
179	Non-Tree	-88.1278	42.3224752
180	Non-Tree	-88.12775	42.3221467
181	Non-Tree	-88.12737	42.3231832
182	Non-Tree	-88.12738	42.323102
183	Non-Tree	-88.12739	42.3233459
184	Non-Tree	-88.12742	42.3235238
185	Non-Tree	-88.12744	42.3234061
186	Non-Tree	-88.12736	42.3232707
187	Non-Tree	-88.12731	42.3234533
188	Non-Tree	-88.12952	42.3239505
189	Non-Tree	-88.12993	42.3240709
190	Non-Tree	-88.12933	42.3239235
191	Non-Tree	-88.1298	42.3240069
192	Non-Tree	-88.1286	42.3237966
193	Non-Tree	-88.12864	42.3235278
194	Non-Tree	-88.12846	42.3237356
195	Non-Tree	-88.12963	42.3240211
196	Non-Tree	-88.12876	42.3235709
197	Non-Tree	-88.12852	42.3234852
198	Non-Tree	-88.1306	42.323407
199	Non-Tree	-88.13125	42.3231616
200	Non-Tree	-88.13095	42.3231576
201	Non-Tree	-88.13072	42.3233169
202	Non-Tree	-88.13104	42.3231476
203	Non-Tree	-88.13051	42.3233664
204	Non-Tree	-88.13085	42.3232379
205	Non-Tree	-88.13122	42.323239
206	Non-Tree	-88.13129	42.3225557
207	Non-Tree	-88.13314	42.3233219
208	Non-Tree	-88.1336	42.3233345
209	Non-Tree	-88.1335	42.3232798
210	Non-Tree	-88.13157	42.3226317
211	Non-Tree	-88.13337	42.3232713
212	Non-Tree	-88.13283	42.3229779
213	Non-Tree	-88.13194	42.3227479
214	Non-Tree	-88.13145	42.3225845
215	Non-Tree	-88.13209	42.3229819
216	Non-Tree	-88.13007	42.3220602

217	Non-Tree	-88.13008	42.3222881
218	Non-Tree	-88.12769	42.3278577
219	Non-Tree	-88.12687	42.3277272
220	Non-Tree	-88.12799	42.3277477
221	Non-Tree	-88.12486	42.3281373
222	Non-Tree	-88.12508	42.3279848
223	Non-Tree	-88.12642	42.3278845
224	Non-Tree	-88.12537	42.3280135
225	Non-Tree	-88.1248	42.3282383
226	Non-Tree	-88.1277	42.3277198
227	Non-Tree	-88.1274	42.3276758
228	Non-Tree	-88.12721	42.3254886
229	Non-Tree	-88.12724	42.3249036
230	Non-Tree	-88.12652	42.3258834
231	Non-Tree	-88.12631	42.3256438
232	Non-Tree	-88.1267	42.3258177
233	Non-Tree	-88.12692	42.325508
234	Non-Tree	-88.12682	42.3255364
235	Non-Tree	-88.12707	42.3255063
236	Non-Tree	-88.12701	42.3253527
237	Non-Tree	-88.12619	42.3258453
238	Non-Tree	-88.12882	42.3265626
239	Non-Tree	-88.12849	42.3240302
240	Non-Tree	-88.12942	42.3241031
241	Non-Tree	-88.12896	42.3267826
242	Non-Tree	-88.1296	42.3242552
243	Non-Tree	-88.12956	42.325712
244	Non-Tree	-88.1294	42.3263728
245	Non-Tree	-88.12917	42.3240292
246	Non-Tree	-88.12994	42.3256774
247	Non-Tree	-88.12962	42.3241808
248	Non-Tree	-88.1332	42.3234372
249	Non-Tree	-88.13221	42.3234741
250	Non-Tree	-88.13346	42.323537
251	Non-Tree	-88.13099	42.3227915
252	Non-Tree	-88.13082	42.3236178
253	Non-Tree	-88.13104	42.3234251
254	Non-Tree	-88.13278	42.3234008
255	Non-Tree	-88.13116	42.3228825
256	Non-Tree	-88.13211	42.3231834
257	Non-Tree	-88.13118	42.3226585
258	Non-Tree	-88.12806	42.3230812
259	Non-Tree	-88.12858	42.3228044
260	Non-Tree	-88.12944	42.3227127

261	Non-Tree	-88.12812	42.32278
262	Non-Tree	-88.12794	42.3231922
263	Non-Tree	-88.12821	42.3230256
264	Non-Tree	-88.12909	42.3229621
265	Non-Tree	-88.13004	42.3227559
266	Non-Tree	-88.12849	42.3226648
267	Non-Tree	-88.13016	42.3225942
268	Non-Tree	-88.10374	42.1674549
269	Non-Tree	-88.10458	42.1671619
270	Non-Tree	-88.10399	42.1671255
271	Non-Tree	-88.10018	42.1705151
272	Non-Tree	-88.09899	42.1706459
273	Non-Tree	-88.09583	42.1715173
274	Non-Tree	-88.09679	42.1708462
275	Non-Tree	-88.103	42.1670459
276	Non-Tree	-88.10242	42.1670657
277	Non-Tree	-88.0988	42.1711194
278	Non-Tree	-87.86398	42.3404986
279	Non-Tree	-87.86169	42.3410687
280	Non-Tree	-87.86196	42.3411107
281	Non-Tree	-87.86414	42.3407617
282	Non-Tree	-87.86388	42.3401954
283	Non-Tree	-87.86207	42.3410233
284	Tree	-87.86633	42.3404355
285	Non-Tree	-87.86037	42.3409658
286	Non-Tree	-87.86287	42.3409745
287	Tree	-87.8614	42.3408713
288	Non-Tree	-87.92933	42.4882464
289	Non-Tree	-87.9274	42.4895209
290	Non-Tree	-87.93035	42.4888003
291	Non-Tree	-87.93051	42.4888814
292	Non-Tree	-87.92812	42.4886423
293	Non-Tree	-87.92851	42.491887
294	Non-Tree	-87.92987	42.4894117
295	Non-Tree	-87.9284	42.4904033
296	Non-Tree	-87.92864	42.4899379
297	Non-Tree	-87.92932	42.4899773
298	Non-Tree	-87.93044	42.4913405
299	Non-Tree	-87.93033	42.4915889
300	Non-Tree	-87.9304	42.4914305
301	Non-Tree	-87.9302	42.4915723
302	Non-Tree	-87.93206	42.4895233
303	Non-Tree	-87.93194	42.4896713
304	Non-Tree	-87.93187	42.4885067

305	Non-Tree	-87.93195	42.4874579
306	Non-Tree	-87.93108	42.4901348
307	Non-Tree	-87.93169	42.4886014
308	Non-Tree	-87.93183	42.4902777
309	Non-Tree	-87.93155	42.4886423
310	Non-Tree	-87.93198	42.4886825
311	Non-Tree	-87.93164	42.4890579
312	Tree	-87.9324	42.4865759
313	Non-Tree	-87.93224	42.4866788
314	Non-Tree	-87.9325	42.486533
315	Non-Tree	-87.93236	42.4866757
316	Non-Tree	-87.93218	42.4867401
317	Non-Tree	-87.93235	42.4868157
318	Non-Tree	-87.93269	42.4866126
319	Non-Tree	-87.9325	42.4868385
320	Non-Tree	-87.93242	42.4867682
321	Non-Tree	-87.93254	42.4867088
322	Non-Tree	-87.93727	42.4846994
323	Non-Tree	-87.93746	42.483911
324	Non-Tree	-87.93733	42.4848879
325	Non-Tree	-87.93695	42.4852605
326	Non-Tree	-87.93734	42.4842589
327	Non-Tree	-87.93707	42.4853328
328	Non-Tree	-87.93733	42.4844966
329	Non-Tree	-87.93729	42.4843907
330	Non-Tree	-87.93683	42.4853676
331	Non-Tree	-87.93646	42.4854668
332	Non-Tree	-87.88741	42.2547619
333	Non-Tree	-87.88713	42.2547717
334	Non-Tree	-87.88728	42.2548664
335	Non-Tree	-87.88734	42.2548144
336	Non-Tree	-87.88753	42.2546532
337	Tree	-87.8873	42.2546411
338	Non-Tree	-87.88722	42.2547949
339	Tree	-87.88743	42.2546365
340	Non-Tree	-87.88728	42.2547345
341	Tree	-87.88716	42.2546709
342	Non-Tree	-87.88715	42.2553032
343	Non-Tree	-87.8872	42.2551435
344	Non-Tree	-87.8873	42.2551713
345	Non-Tree	-87.88731	42.2552918
346	Non-Tree	-87.8873	42.2554185
347	Non-Tree	-87.8872	42.2554031
348	Non-Tree	-87.88721	42.255229

349	Non-Tree	-87.88735	42.2554804
350	Non-Tree	-87.88709	42.2550822
351	Non-Tree	-87.8872	42.2554928
352	Non-Tree	-87.89021	42.257149
353	Non-Tree	-87.89014	42.2570711
354	Non-Tree	-87.89001	42.2571099
355	Non-Tree	-87.89014	42.2572955
356	Non-Tree	-87.89035	42.2573975
357	Tree	-87.89014	42.2570035
358	Tree	-87.89024	42.2573816
359	Non-Tree	-87.88991	42.2571161
360	Non-Tree	-87.8902	42.2572331
361	Non-Tree	-87.89027	42.2573035
362	Non-Tree	-87.88746	42.2558513
363	Tree	-87.88806	42.2561079
364	Non-Tree	-87.8882	42.2560658
365	Tree	-87.88767	42.2558228
366	Non-Tree	-87.88733	42.2558539
367	Non-Tree	-87.88734	42.2559238
368	Tree	-87.88789	42.2558543
369	Non-Tree	-87.88756	42.2560374
370	Tree	-87.88808	42.2560322
371	Tree	-87.88744	42.256067
372	Non-Tree	-87.88309	42.2574781
373	Non-Tree	-87.88332	42.257734
374	Non-Tree	-87.8832	42.2575942
375	Non-Tree	-87.88905	42.2556414
376	Tree	-87.88912	42.2557273
377	Non-Tree	-87.88896	42.2558749
378	Non-Tree	-87.88896	42.2557167
379	Non-Tree	-87.88885	42.255823
380	Non-Tree	-87.88883	42.2559634
381	Non-Tree	-87.88908	42.2557881
382	Tree	-87.88897	42.2558029
383	Non-Tree	-87.88917	42.255803
384	Non-Tree	-87.88896	42.2559444
385	Non-Tree	-87.88208	42.2491358
386	Non-Tree	-87.88212	42.2484125
387	Non-Tree	-87.88202	42.2492503
388	Non-Tree	-87.88191	42.2492951
389	Non-Tree	-87.88137	42.2414966
390	Tree	-87.88139	42.2414094
391	Non-Tree	-87.88136	42.2416288
392	Non-Tree	-87.88131	42.2415553

393	Non-Tree	-87.88663	42.2554911
394	Non-Tree	-87.88676	42.2552525
395	Non-Tree	-87.88691	42.2557146
396	Non-Tree	-87.88671	42.2554217
397	Non-Tree	-87.88687	42.2555096
398	Non-Tree	-87.88663	42.2553284
399	Non-Tree	-87.88685	42.255645
400	Non-Tree	-87.88666	42.2551278
401	Non-Tree	-87.88702	42.2556185
402	Non-Tree	-87.88665	42.2552293
403	Tree	-87.88187	42.2494389
404	Non-Tree	-87.88189	42.2496722
405	Non-Tree	-87.88174	42.250194
406	Non-Tree	-87.88178	42.2505251
407	Tree	-87.8817	42.250452
408	Non-Tree	-87.88185	42.2497659
409	Non-Tree	-87.88191	42.2495062
410	Non-Tree	-87.88181	42.2499065
411	Non-Tree	-87.88188	42.2495708
412	Non-Tree	-87.88159	42.2513635
413	Non-Tree	-87.88157	42.2512227
414	Non-Tree	-87.88322	42.2422159
415	Non-Tree	-87.88319	42.2423054
416	Non-Tree	-87.8832	42.2421473
417	Non-Tree	-87.88208	42.247608
418	Non-Tree	-87.8821	42.2471969
419	Non-Tree	-87.88202	42.2468628
420	Non-Tree	-87.88202	42.2475194
421	Non-Tree	-87.88199	42.2467853
422	Non-Tree	-87.88197	42.2470265
423	Non-Tree	-87.88197	42.2469205
424	Non-Tree	-87.94572	42.3238884
425	Non-Tree	-87.94647	42.3236038
426	Non-Tree	-87.94582	42.3238504
427	Non-Tree	-87.94616	42.3237403
428	Non-Tree	-87.9455	42.3238787
429	Non-Tree	-87.94638	42.3236943
430	Non-Tree	-87.94597	42.3238403
431	Non-Tree	-87.9456	42.3238953
432	Non-Tree	-87.9286	42.2159987
433	Tree	-87.92876	42.2162845
434	Non-Tree	-87.92819	42.2165225
435	Non-Tree	-87.92783	42.2173639
436	Non-Tree	-87.92781	42.2171163

437	Non-Tree	-87.92805	42.2166103
438	Non-Tree	-87.92802	42.2167419
439	Non-Tree	-87.92784	42.2176201
440	Non-Tree	-87.92796	42.2177391
441	Non-Tree	-87.92796	42.2168683
442	Non-Tree	-87.92764	42.2168641
443	Non-Tree	-87.92796	42.2161288
444	Non-Tree	-87.92758	42.2167957
445	Non-Tree	-87.92763	42.2172768
446	Non-Tree	-87.92776	42.2161944
447	Non-Tree	-87.92765	42.2170449
448	Non-Tree	-87.92779	42.2163368
449	Non-Tree	-87.92798	42.2159874
450	Non-Tree	-87.92774	42.2166901
451	Non-Tree	-87.92762	42.2162812
452	Non-Tree	-87.92016	42.2091183
453	Non-Tree	-87.91982	42.2093223
454	Non-Tree	-87.91994	42.2091674
455	Non-Tree	-87.91964	42.208962
456	Non-Tree	-87.91936	42.209181
457	Non-Tree	-87.9193	42.2090893
458	Non-Tree	-87.92018	42.209043
459	Non-Tree	-87.91966	42.2093313
460	Non-Tree	-87.91988	42.2090248
461	Non-Tree	-87.91956	42.2091055
462	Tree	-88.10122	42.2604848
463	Non-Tree	-88.10101	42.2601285
464	Non-Tree	-88.10149	42.2607426
465	Non-Tree	-88.10109	42.2600352
466	Non-Tree	-88.10139	42.2606182
467	Non-Tree	-88.10165	42.2602246
468	Non-Tree	-88.10136	42.2604408
469	Non-Tree	-88.10104	42.2602192
470	Non-Tree	-88.1016	42.2607585
471	Non-Tree	-88.10168	42.2606365
472	Non-Tree	-88.10145	42.2610964
473	Non-Tree	-88.10104	42.2609079
474	Non-Tree	-88.10156	42.2611905
475	Non-Tree	-88.10169	42.2611427
476	Non-Tree	-88.10101	42.2608353
477	Non-Tree	-88.10134	42.2610213
478	Non-Tree	-88.10158	42.2612651
479	Non-Tree	-88.10139	42.2612319
480	Non-Tree	-88.10157	42.2613616

481	Non-Tree	-88.10143	42.2611628
482	Non-Tree	-88.09729	42.261176
483	Non-Tree	-88.09757	42.2612919
484	Non-Tree	-88.09715	42.2613147
485	Non-Tree	-88.09725	42.2613086
486	Non-Tree	-88.09736	42.2613367
487	Non-Tree	-88.09751	42.2609358
488	Non-Tree	-88.09763	42.2613449
489	Non-Tree	-88.09744	42.2611291
490	Non-Tree	-88.09718	42.2610794
491	Non-Tree	-88.09739	42.2611941
492	Tree	-88.09542	42.2599047
493	Non-Tree	-88.09542	42.2601734
494	Non-Tree	-88.09544	42.2600334
495	Non-Tree	-88.09543	42.2595417
496	Non-Tree	-88.09491	42.2591342
497	Non-Tree	-88.09536	42.2592793
498	Non-Tree	-88.09517	42.259359
499	Non-Tree	-88.09526	42.2596448
500	Non-Tree	-88.09493	42.2590395
501	Non-Tree	-88.09539	42.2598324
502	Non-Tree	-88.09269	42.2597368
503	Non-Tree	-88.09231	42.2592428
504	Non-Tree	-88.09228	42.2593334
505	Non-Tree	-88.09289	42.2592941
506	Non-Tree	-88.09282	42.2593636
507	Non-Tree	-88.09258	42.2592991
508	Non-Tree	-88.09272	42.2593557
509	Tree	-88.09274	42.2596612
510	Non-Tree	-88.09276	42.2592298
511	Non-Tree	-88.09241	42.2592534
512	Non-Tree	-88.09258	42.2590872
513	Non-Tree	-88.09238	42.2589096
514	Non-Tree	-88.09238	42.258761
515	Non-Tree	-88.09291	42.2587625
516	Tree	-88.09306	42.2590923
517	Non-Tree	-88.09289	42.2590512
518	Non-Tree	-88.09225	42.2588299
519	Non-Tree	-88.09238	42.259135
520	Non-Tree	-88.09273	42.259184
521	Non-Tree	-88.09275	42.2589093
522	Non-Tree	-87.93528	42.2728742
523	Non-Tree	-87.93529	42.2726836
524	Non-Tree	-87.93465	42.272953

525	Non-Tree	-87.93536	42.2727717
526	Non-Tree	-87.9362	42.2733904
527	Non-Tree	-87.93595	42.272812
528	Non-Tree	-87.93528	42.2732611
529	Non-Tree	-87.93505	42.2730847
530	Non-Tree	-87.93475	42.2729501
531	Non-Tree	-87.93503	42.2727171
532	Non-Tree	-88.10332	42.2593875
533	Non-Tree	-88.10327	42.2592984
534	Non-Tree	-88.10355	42.2593878
535	Tree	-88.10318	42.2596304
536	Tree	-88.10441	42.2592352
537	Non-Tree	-88.10464	42.2585181
538	Non-Tree	-88.10414	42.2596791
539	Non-Tree	-88.10426	42.2591417
540	Non-Tree	-88.10275	42.2597028
541	Non-Tree	-88.10339	42.2592382

Cover Class Options: "Tree" OR "Non-Tree"

ID	Cover Class	Latitude	Longitude
1	Non-Tree	-87.9328	42.2733405
2	Tree	-87.93413	42.2733521
3	Non-Tree	-87.93269	42.2735463
4	Non-Tree	-87.93352	42.2724742
5	Non-Tree	-87.93349	42.2721036
6	Non-Tree	-87.9332	42.2731844
7	Non-Tree	-87.93336	42.2733603
8	Non-Tree	-87.93329	42.2722096
9	Non-Tree	-87.93266	42.2732842
10	Non-Tree	-87.93357	42.2719231
11	Non-Tree	-88.11937	42.3440895
12	Non-Tree	-88.11938	42.3449675
13	Non-Tree	-88.11876	42.3455008
14	Tree	-88.11914	42.344698
15	Tree	-88.11901	42.3454954
16	Non-Tree	-88.11822	42.3444088
17	Non-Tree	-88.11916	42.3456517
18	Tree	-88.11839	42.3457298
19	Non-Tree	-88.119	42.3453035
20	Non-Tree	-88.11902	42.3446154
21	Non-Tree	-88.10448	42.2572735
22	Non-Tree	-88.10221	42.2566914
23	Tree	-88.10216	42.2582151
24	Tree	-88.10363	42.257679
25	Tree	-88.105	42.2568749
26	Non-Tree	-88.10335	42.2574384
27	Non-Tree	-88.10279	42.2583513
28	Non-Tree	-88.10262	42.255861
29	Non-Tree	-88.10215	42.2575426
30	Non-Tree	-88.1028	42.2579966
31	Non-Tree	-88.09266	42.2607727
32	Non-Tree	-88.0927	42.2609488
33	Non-Tree	-88.09449	42.2611695
34	Tree	-88.09301	42.2607298
35	Tree	-88.09244	42.2604115
36	Tree	-88.0929	42.2613409
37	Tree	-88.09332	42.2607683
38	Non-Tree	-88.09287	42.260536
39	Non-Tree	-88.0932	42.2600592
40	Non-Tree	-88.09248	42.260296

41	Non-Tree	-87.94644	42.3255934
42	Tree	-87.94611	42.3252445
43	Non-Tree	-87.94623	42.3259659
44	Non-Tree	-87.94696	42.3271558
45	Tree	-87.94712	42.3270459
46	Non-Tree	-87.94616	42.3271999
47	Tree	-87.94676	42.327361
48	Tree	-87.94646	42.3254462
49	Tree	-87.94718	42.3272872
50	Non-Tree	-87.94621	42.3270343
51	Non-Tree	-88.1486	42.3046203
52	Non-Tree	-88.14546	42.3039403
53	Non-Tree	-88.14542	42.3042517
54	Non-Tree	-88.14911	42.3043734
55	Non-Tree	-88.14609	42.3044656
56	Non-Tree	-88.14544	42.3051469
57	Non-Tree	-88.14628	42.3054254
58	Tree	-88.14619	42.3053861
59	Non-Tree	-88.14868	42.3050895
60	Non-Tree	-88.14826	42.3050847
61	Non-Tree	-87.94447	42.3270454
62	Non-Tree	-87.94467	42.3244788
63	Non-Tree	-87.94451	42.3246296
64	Tree	-87.94498	42.3255429
65	Non-Tree	-87.94477	42.3244177
66	Tree	-87.94528	42.3251092
67	Non-Tree	-87.94475	42.3243233
68	Non-Tree	-87.94469	42.3257248
69	Tree	-87.94452	42.3255683
70	Tree	-87.94436	42.3257139
71	Non-Tree	-87.93713	42.2746995
72	Non-Tree	-87.93758	42.2747405
73	Non-Tree	-87.93727	42.2747436
74	Tree	-87.93714	42.2749189
75	Non-Tree	-87.93751	42.2745518
76	Non-Tree	-87.9374	42.2747479
77	Non-Tree	-87.9375	42.2747483
78	Non-Tree	-87.93765	42.2746319
79	Tree	-87.93748	42.2748928
80	Non-Tree	-87.93741	42.2745437
81	Non-Tree	-87.93311	42.2721826
82	Non-Tree	-87.93218	42.2721871
83	Tree	-87.93195	42.2729751
84	Non-Tree	-87.93193	42.272307

85	Tree	-87.93173	42.2713898
86	Non-Tree	-87.93208	42.2722952
87	Non-Tree	-87.93137	42.2721196
88	Non-Tree	-87.93144	42.2719647
89	Non-Tree	-87.93175	42.2726518
90	Tree	-87.93201	42.2712498
91	Non-Tree	-88.12681	42.3274274
92	Non-Tree	-88.12507	42.3276341
93	Non-Tree	-88.1239	42.3282576
94	Tree	-88.12695	42.327539
95	Tree	-88.1261	42.327052
96	Tree	-88.12382	42.3283946
97	Non-Tree	-88.12427	42.3281059
98	Non-Tree	-88.12393	42.3281875
99	Non-Tree	-88.12461	42.3280396
100	Non-Tree	-88.12474	42.3279934
101	Non-Tree	-88.12295	42.3268588
102	Non-Tree	-88.12268	42.326869
103	Tree	-88.12284	42.3268049
104	Tree	-88.12166	42.3268937
105	Non-Tree	-88.12255	42.3268133
106	Non-Tree	-88.12304	42.3270123
107	Non-Tree	-88.1215	42.326928
108	Non-Tree	-88.12213	42.3267647
109	Non-Tree	-88.12292	42.3271329
110	Tree	-88.12242	42.3268012
111	Non-Tree	-88.12278	42.3260481
112	Tree	-88.12267	42.3261833
113	Tree	-88.12284	42.3259019
114	Non-Tree	-88.12275	42.3258436
115	Non-Tree	-88.12284	42.326002
116	Non-Tree	-88.12275	42.3261371
117	Tree	-88.12695	42.3264537
118	Non-Tree	-88.12675	42.3251111
119	Non-Tree	-88.12604	42.3254221
120	Tree	-88.12615	42.3253886
121	Tree	-88.12688	42.3250395
122	Non-Tree	-88.12668	42.3251816
123	Non-Tree	-88.12656	42.3252109
124	Non-Tree	-88.12648	42.3252586
125	Non-Tree	-88.12634	42.3253189
126	Non-Tree	-88.12376	42.3245431
127	Tree	-88.12387	42.3259925
128	Tree	-88.12392	42.3257035

129	Non-Tree	-88.12351	42.3251685
130	Non-Tree	-88.12435	42.3247575
131	Non-Tree	-88.12443	42.3256358
132	Non-Tree	-88.12332	42.3233361
133	Tree	-88.12441	42.3254085
134	Non-Tree	-88.12451	42.3257668
135	Tree	-88.12358	42.3234023
136	Non-Tree	-88.12189	42.3232078
137	Non-Tree	-88.12209	42.3235609
138	Non-Tree	-88.12224	42.323077
139	Non-Tree	-88.12194	42.3230988
140	Tree	-88.12239	42.323373
141	Non-Tree	-88.1218	42.3233605
142	Tree	-88.12275	42.323087
143	Non-Tree	-88.12184	42.3233011
144	Non-Tree	-88.12206	42.3231792
145	Non-Tree	-88.12258	42.3230786
146	Non-Tree	-88.12114	42.3216266
147	Non-Tree	-88.1212	42.3217967
148	Non-Tree	-88.12123	42.3215575
149	Non-Tree	-88.12115	42.3216952
150	Non-Tree	-88.12128	42.3218674
151	Non-Tree	-88.12137	42.3218272
152	Tree	-88.12114	42.3215076
153	Non-Tree	-88.12702	42.3240087
154	Non-Tree	-88.12668	42.3240343
155	Non-Tree	-88.12689	42.3239761
156	Tree	-88.12719	42.3240686
157	Tree	-88.12652	42.3240724
158	Non-Tree	-88.12659	42.3240172
159	Non-Tree	-88.12676	42.3239834
160	Non-Tree	-88.12711	42.3240398
161	Non-Tree	-88.12658	42.3219231
162	Non-Tree	-88.12668	42.3224084
163	Non-Tree	-88.12574	42.3223946
164	Non-Tree	-88.1266	42.3220409
165	Non-Tree	-88.12661	42.3226155
166	Non-Tree	-88.12616	42.3224286
167	Non-Tree	-88.12638	42.32253
168	Non-Tree	-88.12588	42.3222273
169	Non-Tree	-88.12664	42.3222179
170	Non-Tree	-88.12625	42.3224653
171	Non-Tree	-88.12786	42.3216996
172	Non-Tree	-88.12781	42.3223764

173	Non-Tree	-88.12776	42.3221998
174	Tree	-88.12763	42.3219884
175	Non-Tree	-88.12779	42.3224654
176	Tree	-88.12844	42.3214337
177	Tree	-88.12774	42.3228942
178	Non-Tree	-88.12777	42.3225485
179	Tree	-88.12774	42.3221058
180	Non-Tree	-88.12817	42.3215367
181	Non-Tree	-88.1274	42.3235036
182	Non-Tree	-88.12737	42.3230702
183	Non-Tree	-88.12739	42.3232627
184	Tree	-88.12759	42.3235922
185	Non-Tree	-88.12742	42.3233451
186	Non-Tree	-88.12733	42.3232055
187	Tree	-88.12733	42.3234547
188	Non-Tree	-88.12942	42.3239566
189	Non-Tree	-88.12857	42.3235082
190	Non-Tree	-88.12953	42.3239323
191	Tree	-88.12926	42.3238821
192	Tree	-88.12883	42.3235644
193	Tree	-88.12895	42.3235524
194	Non-Tree	-88.12982	42.3240148
195	Non-Tree	-88.12859	42.3238274
196	Non-Tree	-88.12893	42.3238866
197	Non-Tree	-88.12974	42.3240463
198	Non-Tree	-88.13088	42.3232151
199	Non-Tree	-88.131	42.3231635
200	Non-Tree	-88.13124	42.3230825
201	Non-Tree	-88.13061	42.3234694
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Lake County Forest Preserve District – Carbon Planting Project
Attestation of Additionality

I am the Manager of Restoration Ecology of the Lake County Forest Preserve District and make this attestation regarding additionality from this tree planting project, Lake County Forest Preserve District – Carbon Planting Project.

- Project Description
  - The Project that is the subject of this attestation is described more fully in both our Application and our Project Design Document (PDD), both of which are incorporated into this attestation.
- Legal Requirements Test (Protocol Section 1.8)
  - Project trees are not required by law or ordinance to be planted (except for replacement trees planted in place of removed trees for specific reasons).
- The Project did not plant trees on sites that were converted out of a forest use or that were cleared of healthy, non-invasive trees and then planted with project trees (Protocol Section 1.9)
- Project-Specific Baseline or Performance Standard Baseline
  - Project trees are additional based on a project specific baseline. See PDD; or
  - Project trees are additional based on the Performance Standard baseline; see attached baseline to the PDD. Project Operator has provided local canopy change data to support the use of the Performance Standard Baseline.
- Project Implementation Agreement for Project Duration
  - Lake County Forest Preserve District has signed a Project Implementation Agreement with City Forest Credits for 26 years.
- The 26-year Project Duration commitment is additional to and longer than any commitment Lake County Forest Preserve District makes to non-carbon project tree plantings.
- Financial Additionality
  - A successful afforestation carbon project goes beyond tree planting to ensure survival of the trees to a healthy maturity at 26 years after the Project start date. These Project Trees are at risk during all stages of this project. The Project Operator has no guaranteed source of long-term maintenance funding outside of the carbon revenues. Existing funding sources for tree planting do not cover maintenance past the first or second years after planting. Operating budgets also vary from year to year, based on available funds and competing priorities across the entire agency.
  - The revenue from the sale of carbon credits will play a material role in the successful and durable storage of Project Trees' carbon stock by providing funding that will help ensure the establishment and long-term health of Project Trees. Funds will be used to pay to plant replacement trees (in needed) and/or to pay for other activities that will meaningfully improve or ensure planted trees' health and project success, e.g. invasive species control.

- Prior Consideration: The Lake County Forest Preserve District first became aware of carbon crediting as a potential source of revenue for projects in ~2020-2021 when it became aware of the work of City Forest Credits program opportunities. In March 2021, the Lake County Forest Preserve Board of Commissioners directed staff to investigate carbon and ecosystem service credits. The District began working with the Chicago Region Trees Initiative shortly thereafter and became aware of City Forest Credits.
- In addition, many of the activities undertaken as part of the carbon project are beyond the Project Operator's common practice, including:
    - Project design (species and planting selection) to maximize carbon storage
    - Care through establishment phase (up to/through Year 3)
    - Long-term maintenance
    - Long-term monitoring and growth assessment
    - Acceptance of reversal obligations
    - Long-term legal commitment to the project

Signed on July 25 in 2025, by Matthew Ueltzen, for Lake County Forest Preserve District.

Signature

Matthew Ueltzen

Printed Name

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