



City of Highland Park-Urban Forest Rejuvenation Initial Project Design Document

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INSTRUCTIONS

Project Operators must complete and submit this Initial Credit Project Design Document (PDD) to request credits after the last tree in a project has been planted. 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 conducts verification. An amendment to the Project Design Document will need to be submitted for future verification at years 4, 6, 14, and 26.

The Protocol Requirements below are a list of eligibility requirements for informational purposes which are also found in the CFC Tree Planting Protocol Version 10, dated February 7, 2022.

Project Operators will enter data and supporting attachments starting on page 8 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).

PROTOCOL REQUIREMENTS

Project Operator (Section 1.1)

Identify a Project Operator for the project. A Project requires one Project Operator, which can be an entity organized and licensed under the laws of its jurisdiction or a governmental body. This is the entity who takes legal responsibility for the project and its reporting.

Commit to 26-year Project Duration in the Project Implementation Agreement (Section 1.3, 2.2)

Sign the Project Implementation Agreement. This is the 26-year agreement between the Project Operator and City Forest Credits (the “Registry”) for an urban forest carbon project.

Project Location (Section 1.3)

Project must be located in or along the boundary of one of the following:

- A. “Urban Area” per Census Bureau maps; see <https://www.census.gov/geographies/reference-maps/2010/geo/2010-census-urban-areas.html>
- B. The boundary of any incorporated city or town created under the law of its state;
- C. The boundary of any unincorporated city, town, or unincorporated urban area created or designated under the law of its state;
- D. The boundary of any regional metropolitan planning agency or council established by legislative action or public charter;
- E. The boundary of land owned, designated, and used by a municipal or quasi-municipal entity for source water or watershed protection;
- F. A transportation, power transmission, or utility right of way, provided the right of way begins, ends, or passes through some portion of above criteria.

Ownership or Eligibility to Receive Potential Credits (Section 1.7)

The Project Operator must demonstrate ownership of property and eligibility to receive potential credits by meeting at least one of the following:

- A. Own the land, the trees, and potential credits upon which the Project trees are located; or

- B. Own an easement or equivalent property interest for a public right of way within which Project trees are located, own the Project trees and credits within that easement, and accept ownership of those Project trees by assuming responsibility for maintenance and liability for them; or
- C. Have a written and signed agreement from the landowner granting ownership to the Project Operator of any credits for carbon storage or other benefits delivered by Project trees on that landowner's land. If Project trees are on private property, this agreement must be recorded in the property records of the county in which the land containing Project trees is located.

Defining the Project Area (Section 1.5)

Project Operators may include more than one planting site in a project. The initial planting of trees for all properties in a project must occur within a 36-month period or less. Project Operators may include multiple properties under one project.

Additionality (Section 4)

Project Operators must demonstrate compliance with the following additionality requirements:

- A Legal Requirements Test that declares city trees planted due to an enacted law or ordinance not eligible (Section 1.8);
- Either 1) a project-specific baseline or 2) the current version of the Registry's performance standard baseline developed in adherence with the WRI GHG Protocol (CFC Standard);
- Sign and comply with a Project Implementation Agreement with the Registry that requires a 26-year Project Duration.

Project Operators must also sign an Attestation of Additionality stating that its 26-year Project Duration commitment is additional to and longer than any commitment it makes to non-carbon project tree plantings.

Planting Designs and Quantification for Credits (Section 1.2, 10, Appendix A)

All Projects must use one of three different methods for quantifying CO₂. The quantification method used depends on the planting design. The Registry has developed spreadsheets and methods for Project Operators. The quantification methods include:

- Single Tree Quantification Method: trees planted in a dispersed or scattered design that are planted at least 10 feet apart (i.e. street trees). This method requires tracking of individual trees and tree survival for sampling and quantification.
- Clustered Quantification Method: trees planted at least 10 feet apart but are relatively contiguous and designed to create canopy over an area (i.e park-like settings). This method requires tracking change in canopy, not individual tree survival.
- Area Reforestation Quantification Method: tree planting areas greater than 5 acres and where many trees are planted closer than 10 feet. Higher tree mortality is expected and the goals are to create canopy and a forest ecosystem. Project Operators have several quantification models to choose from, all of which produce a carbon index on a per-acre basis.

Attestation of No Net Harm and No Double Counting (Section 5)

Project Operators must sign an attestation that no project shall cause net harm and no project shall seek credits on trees, properties, or projects that have already received credits.

Social Impacts (Section 11)

Project Operators will describe how the Project impacts contribute towards achievement of the global UN Sustainable Development Goals (SDGs). The Registry will supply a template to evaluate how the Project aligns with the SDGs.

Validation and Verification by Third-Party Verifiers (Sections 12 & 13)

Project compliance and quantification must be verified by a third-party verifier known as a Validation and Verification Body approved by the Registry. Protocol Appendix B provides more detail.

Issuance of Ex Ante Carbon Forward Removal Credits to Project Operator (Section 6)

The forecasted amount of CO₂ stored during the project duration is the value from which the Registry issues ex ante Carbon Forward Removal Credits™. To ensure performance of the credits, the Registry issues credits at five times during the 26-year Project Duration:

- 10% of projected credits after planting
- 30% of projected credits at Year 4
- 30% of projected credits at Year 6
- 10% of projected credits at Year 14
- Remaining credits issued based on quantification of CO₂e at Year 26

Credits for Reversal Pool Account (Section 6.3)

The Registry will issue 95% of Project credits earned and requested and will hold 5% in the Registry's Reversal Pool Account.

Understand Reversals (Section 8)

If the Project Area loses credited carbon stock, the Project Operator must return or compensate for those credits if the tree loss is due to intentional acts or gross negligence of Project Operator. If tree loss is due to fire, pests, or other acts of god (i.e., not due to the Project Operator's intentional acts or gross negligence), the Registry covers the reversed credits from its Reversal Pool Account of credits held back from all projects.

Commit to Monitoring and Reporting (Section 7)

Project Operators must submit an annual monitoring report to the Registry every year for the Project Duration. The reports must be in writing, and the Project Operator must attest to the accuracy of the reports.

Tree Sampling, Measurement, and Imaging Requirements (Appendix A)

To ensure performance of the credits, Project Operators must commit to the following at Years 4, 6, 14, and 26 based on the appropriate quantification method.

1) Single Tree

- a. Initial Credit: Use the carbon quantification tool which contains a worksheet called "Data Collection" for use in tracking each tree. In that file or another tree inventory system, document the GPS coordinates for each tree planted.

- b. Years 4 and 6: 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 CO2 projected amount by Year 26 is generated.
- c. Year 14: Project Operators must follow the same process as stated above for Years 4 and 6, except they must also measure DBH on the sample of trees. The DBH will be used to ensure growth curve consistent with the projected CO2 storage at Year 26.
 - i. If the actual growth curves of project trees are less than was projected, the number of credits issued at Year 14 will be adjusted downward.
- d. Year 26: Project Operators must generate a random sample of project trees and measure DBH on the sample of trees. The DBH will be used to calculate CO2 storage at that time. Project Operators must also submit geocoded photos of the sampled trees.
 - i. Credits may be issued based on the actual CO2 storage at Year 26, minus credits already issued.

2) Clustered

- a. Initial Credit: Use the carbon quantification tool and input data. In addition, Project Operators must provide maps of the site, with boundaries, as well as a map showing the site within a larger context of land area, such as within a neighborhood, city, or region. Project Operators must document the planting through photos or imaging. Select points and take geo-coded photos that when taken together capture the newly planted trees in the project area. If site is rectilinear, take a photo at each of the corners. If the site is large, take photos at points along the perimeter looking into the project area. If necessary to capture the trees, take photos facing each of the cardinal directions while standing in the middle of the project area. If site is nonrectilinear, identify critical points along property boundaries and take photographs at each point facing in towards the middle of the site. Next, take photographs from the middle of the project area facing out at each cardinal direction.
- b. 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%.
- c. Year 6: Project Operators must follow the same process as stated above for Year 4.
 - i. If the canopy coverage equals or exceeds 11.5% (400 trees per acre with an average canopy area of 12.56 square feet per tree (4-foot diameter of canopy) is 11.5% of an acre), then the credits projected in the Clustered Parks Quantification Tool may be issued. If canopy coverage is below 11.5%, then the number of credits issued is reduced by the same percentage as the canopy coverage falls below 11.5%.
- d. Year 14: Project Operators must follow the same process as stated above for Years 4 and 6.
 - i. If the canopy coverage equals or exceeds 46% (400 trees per acre with an average canopy area of 50 square feet per tree (8-foot diameter of canopy) is 46% of an acre), then the credits projected in the Clustered Quantification Tool may be issued. If canopy coverage is below 46%, then the number of credits issued is reduced by the same percentage as the canopy coverage falls below 46%.
- e. Year 26: Project Operators must follow the same process as stated above for Years 4, 6, and 14.
 - i. If the canopy coverage equals 100% of the Project Area at project outset, the credits projected in the Clustered Quantification Tool may be issued. If canopy coverage is below 100% of the Project Area, then the number of credits issued is reduced by the same percentage as the canopy coverage falls below 100%.

3) Area Reforestation

- a. Initial Credit: Project Operators must use local data or the GTR tables to demonstrate projected carbon storage by Year 26. In addition, Project Operators must provide maps of the site, with boundaries, as well as a map showing the site within a larger context of land area, such as within a neighborhood, city, or region. Project Operators must document the planting through photos or imaging. Select points and take geo-coded photos that when taken together capture the newly planted trees in the project area. If site is rectilinear, take a photo at each of the corners. If the site is large, take photos at points along the perimeter looking into the project area. If necessary to capture the trees, take photos facing each of the cardinal directions while standing in the middle of the project area. If site is nonrectilinear, identify critical points along property boundaries and take photographs at each point facing in towards the middle of the site. Next, take photographs from the middle of the project area facing out at each cardinal direction.
- b. 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%.
- c. Year 6: Project Operators must either conduct a physical tree count using plots or use imaging to determine canopy coverage at Year 6.
 - i. If the canopy coverage equals or exceeds 11.5% (400 trees per acre with an average canopy area of 12.56 square feet per tree (4-foot diameter of canopy) is 11.5% of an acre), then the credits projected in the Quantification Tool may be issued. If canopy coverage is below 11.5%, then the number of credits issued is reduced by the same percentage as the canopy coverage falls below 11.5%.
- d. Year 14: Project Operators must either conduct a physical tree count using plots or use imaging to determine canopy coverage at Year 6.
 - i. If the canopy coverage equals or exceeds 46% (400 trees per acre with an average canopy area of 50 square feet per tree (8-foot diameter of canopy) is 46% of an acre), then the credits projected in the Quantification Tool may be issued. If canopy coverage is below 46%, then the number of credits issued is reduced by the same percentage as the canopy coverage falls below 46%.
- e. Year 26: Project Operators must either conduct a physical tree count using plots or use imaging to determine canopy coverage at Year 26.
 - i. If the canopy coverage equals 100% of the Project Area at project outset, the credits projected in the Clustered Parks Quantification Tool may be issued. If canopy coverage is below 100% of the Project Area, then the number of credits issued is reduced by the same percentage as the canopy coverage falls below 100%.

PROJECT OVERVIEW

Project Name: City of Highland Park - Urban Forest Rejuvenation

Project Number: 029

Project Type: Planting Project (under the Tree Planting Protocol – version 10, dated February 7, 2022)

Project Start Date: June 23, 2022

Project Location: Highland Park, IL

Project Operator Name: The City of Highland Park, IL

Project Operator Contact Information: Ben Miller - City Forester

Email: bmiller@cityhpil.com

Phone: 847.926.1179

Project Description

Describe overall project goals as summarized in application (2 paragraphs max)

The Urban Forest Rejuvenation project aims to diversify and bolster the population of parkway trees within the City of Highland Park, IL. Parkway trees provide numerous benefits to the residents and patrons of Highland Park. These benefits include ecological, physiological, financial, and aesthetic. In the wake of dramatic mortality in native Elm and Ash populations, substantial vacancies have been left in the boulevards of Highland Park. In addition to restoration of tree canopy cover, it is increasingly apparent that the key to resiliency of the urban forest is diversity. In the face of repeated introduction of climate changes as well as novel insects and pathogens within our ecosystem, Highland Park aims to diversify its parkway tree population. Incorporating species with a wide array of vulnerabilities and resistances and segueing away from overplanted cultivars and monocultures.

Trees were planted on public rights-of way across all 8 planting regions of the City on 200+ different City streets/properties. In total, 809 trees were planted from June 1, 2019 to June 23, 2022. Priority was given to vacancies with the greatest longevity and areas with weakest diversity and tree canopy coverage.

LOCATION (Section 1.3)

Project Location

Describe where the Project is located and how it meets the location criteria.

This project meets the urban location criteria with all trees planted within the municipal boundaries of the City of Highland Park, IL, which includes the 12.27 square miles. Specifically, trees were planted along the City rights-of-way along public streets, sidewalks, municipal properties. Trees were planted along 200 different public streets within the municipality over the timeline of the project.

Project Maps

Provide 1) a detailed map of the Project Area, 2) a regional-scale map that shows the Project Area within the context of relevant urban/town boundaries, and 3) shapefiles. Include numbered title/filename of attachments (Ex: 1 - Project Area Map)

Filenames: 1 CHP Project Area Map, 2 CHP Regional Area Map, 3 CHP Tree Planting Data-Shapefiles

OWNERSHIP OR ELIGIBILITY TO RECEIVE POTENTIAL CREDITS (Section 1.7)

Project Operator must demonstrate ownership of potential credits or eligibility to receive potential credits. If the Project Operator is not the same as the landowner of the Project Area, provide agreement(s) between Project Operator and landowner authorizing Project Operator to execute this project. Include relevant documentation including numbered title/filename as an attachment.

Name of landowner of Project Area and explanation:

The City of Highland Park, IL is the landowner for the Project Area.

Filename: 4 CHP Planting Attestation of Land Ownership

PROJECT DURATION (Section 1.3, 2.2)

Project Operator commits to the 26-year project duration requirement through a signed Project Implementation Agreement with City Forest Credits.

Project Operator has committed to the 26-year project duration and signed a Project Implementation Agreement with City Forest Credits.

ATTESTATION OF PLANTING AND PLANTING AFFIRMATION (Section 3)

Complete and attach the following attestations: 1) Attestation of Planting, with supporting documentary evidence of planting such as invoices and event photos, 2) Attestation of Planting Affirmation, signed by a participating organization attesting to the tree planting. Provide any additional notes as relevant.

Project Operator has signed the Attestation of Planting and provided supporting documentary evidence of planting. A participating organization in the tree planting has signed the Planting Affirmation.

Filenames: 5 CHP Attestation of Planting; 6 CHP Attestation of Planting Affirmation

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.

- Project trees are not required by law or ordinance to be planted (Protocol Section 1.8). 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 (Protocol Section 1.9)
- 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 26 years.
- The 26-year Project Duration commitment is additional to and longer than any commitment our organization makes to non-carbon project tree plantings.
- Project Operator has signed the Attestation of Additionality.

Project Operator has signed the Attestation of Additionality, see attachment below.

Filename: 7 CHP Attestation of Additionality, 12 Performance Standard Baseline Methodology

PLANTING DESIGN AND CARBON QUANTIFICATION DOCUMENTATION (1.2, 10, Appendix A)

Describe the planting design and appropriate quantification method for the project – Single Tree, Clustered, or Area Reforestation. Include the project's climate zone and data collection. Outline the estimated total number of credits to be issued to the project over 26 years as well as the amount to be issued upon successful validation and verification in Year 1. Attach the quantification tool and provide the data you have collected for Project Trees.

Trees were planted using the Single Tree planting design and quantification method, with trees spaced more than 10 feet apart. Each planting location was recorded by latitude and longitude. The City of Highland Park, IL is in the Midwest Climate Zone.

Total number of trees planted	809
Project area (acres), if applicable	N/A
Total number of trees per acre, if applicable	N/A
Credits attributed to the project (tCO ₂ e)	2,110
Credits after mortality deduction (default is 20%)	1,688
Contribution to Registry Reversal Pool Account (5%) (tCO ₂ e)	84
Total credits to be issued to the Project Operator (tCO₂e)	1,604
Total credits requested to be issued in Year 1 (10% of above)	160

GHG Assertion:

Project Operator asserts that the Project results in GHG emissions mitigation of 1604 tons CO₂e over the 26-year Project Duration. Project Operator will sample trees, quantify tons CO₂e, and submit documentation for verification and credit issuance at Year 4, 6, 14, and 26 per the Tree Protocol and Single Tree Quantification Methodology.

Project Operator asserts that the Project results in the GHG emissions mitigation of 160 tons CO₂e after initial tree planting.

Filename: 8 CHP Midwest Single Tree Initial Credit Tool, 9 CHP Tree planting data, 13 Quantifying Carbon Dioxide Storage and Co-Benefits for Urban Tree Planting Projects

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

Summarize co-benefit quantification and provide supporting documentation. CFC will provide a Co-Benefits Quantification spreadsheet to Project Operators for calculating rainfall interception, reduction of certain air compounds, and energy savings.

Ecosystem Services	Resource Units	Value
Rainfall Interception (m ³ /yr)	3,931.70	\$28,147.30
Air Quality (t/yr)		
O ₃	0.0532	\$177.52
NO _x	0.0086	\$28.78
PM ₁₀	0.0279	\$79.30
Net VOCs	0.0353	\$292.16
Air Quality Total	0.1250	\$577.76
Energy (kWh/yr & kBtu/yr)		
Cooling – Electricity (kWh/yr)	124,341.50	\$9,437.52
Heating – Natural Gas (kBtu/yr)	1,809,643.62	\$17,616.40
Energy Total (\$/yr)		\$27,053.92
Grand Total (\$/yr)		\$55,778.97

The co-benefits quantification was calculated using the Midwest Single Tree Initial Credit Tool supplied by City Forest Credits. See attached. The project will provide \$55,778.97 in ecosystem services every year after the trees reach 25 years old.

Filename: 8 CHP Midwest Single Tree Initial Credit Tool

ATTESTATION OF NO DOUBLE COUNTING OF CREDITS AND NO NET HARM (Section 5)

Complete and attach the following attestation: Attestation of No Double Counting of Credits and Attestation of No Net Harm. Provide any additional notes as relevant.

Project Operator has signed the Attestation of No Double Counting of Credits and No Net Harm, see attached.

Filename: 10 CHP Attestation of No Double Counting and No Net Harm

SOCIAL IMPACTS (Section 11)

Project Operators shall use the Carbon Project Social Impact template to evaluate the UN Sustainable Development Goals (SDGs) to determine how a Project provides social impacts that contribute towards

achievement of the global goals. CFC will provide the template. Summarize the three to five main SDGs from this Project.

Trees were planted on parkways and served to mitigate undesirable impacts of roadways. This includes softening the landscape, as well as improving storm water runoff and soil infiltration rates. Trees along the McClory Bike Trail were planted to rehabilitate the landscape, replacing invasive species, and stabilize soils with significant topography. The City also partnered with local middle school and high school students to plant these trees. Staff used the opportunity to teach on the importance of native species to the ecosystem as well as proper tree planting practices. Beyond carbon sequestration, the City of Highland Park-Urban Forest Rejuvenation program will restore over story canopy to the City; helping to mitigate urban heat island effects.

Filename: 11 CHP Carbon Project Social Impacts

MONITORING AND REPORTING (Section 7)

Throughout the Project Duration, the Project Operator must report on tree conditions across the Project Area. Project Operator is required to submit an annual monitoring report on the anniversary of the date of the first Verification Report. For example, if the verification report is dated January 31, 2022, the first monitoring report will be due by January 31, 2023 and each January 31st thereafter for the duration of the project.

At Years 4, 6, 16, and 26, sampling, measurement of trees or canopy coverage, and/or quantification of CO₂e will be submitted for request of credit issuance in lieu of a monitoring report that year.

Monitoring Reports

Project Operators must submit reports in writing and must attest to the accuracy of the reports. The reports must contain any changes in eligibility status of the Project Operator and any significant tree loss. The following questions are contained in CFC's annual monitoring report template:

- 1. Has the contact information for the Project Operator changed? If so, provide new information.*
- 2. Have there been changes in land ownership of the Project Area?*
- 3. Have there been any changes in the Project Design?*
- 4. Have there been any changes in the implementation or management of the Project?*
- 5. Have there been any significant changes to the site (such as flooding or human changes)?*
- 6. Have there been any significant tree or canopy losses estimated to be greater than 8% of Project Trees or 8% of canopy?*
- 7. Any other significant elements to report?*

Monitoring Plans

Confirm and describe your plans for annual monitoring of this project and specifics on how sampling, measurement, and imaging (see Protocol Requirements and Appendix A) will be conducted based on your project's quantification method.

The City of Highland Park maintains a digital parkway tree inventory utilizing the Davey Treekeeper 8 software system. This inventory is updated on a routine basis with approximately 1/7th of the total inventory being visited by Forestry personnel each year. This typically occurs in late Fall or Winter,

preceding dormant tree pruning operations that take place in the new calendar year. Additionally, the inventory is updated on incidental and as-needed basis.

Alongside scheduled inspections, Forestry staff will collect data on a randomized sample of project trees. This data (including tree size, condition, and inventory date) will be entered via tablet computer into the digital tree inventory. From there a spreadsheet can be generated on the current status of all subject trees, highlighting those inspected during that reporting period.

PROJECT OPERATOR SIGNATURE

Signed on August 31 in 2022, by Benjamin Miller- City Forester, for City of Highland Park, IL.



Signature

Benjamin R Miller

847.926.1179

Phone

bmiller@cityhpil.com

Email

ATTACHMENTS

- 1 – CHP Project Area Maps
- 2 – CHP Regional Area Map
- 3 – CHP Tree Planting Data Shapefile
- 4 - CHP Attestation of Land Ownership
- 5 – CHP Attestation of Planting
- 6 – CHP Attestation of Planting Affirmation
- 7 – CHP Attestation of Additionality
- 8 – CHP Midwest Single Tree Initial Credit Tool
- 9 – CHP Tree Data
- 10 – CHP Attestation of No Double Counting of Credits and No Net Harm
- 11 – CHP Carbon Project Social Impacts
- 12 – Performance Standard Baseline Methodology
- 13 – Quantifying Carbon Dioxide Storage and Co-Benefits for Urban Tree Planting Projects

Attachment 12

PERFORMANCE STANDARD BASELINE METHODOLOGY (Section 4)

There is a second additionality methodology set out in the WRI GHG Protocol guidelines – the Performance Standard methodology. This Performance Standard essentially allows the project developer, or in our case, the developers of the protocol, to create a performance standard baseline using the data from similar activities over geographic and temporal ranges.

The common perception, particularly in the United States, is that projects must meet a project specific test. Project-specific additionality is easy to grasp conceptually. The 2014 Climate Action Reserve urban forest protocol essentially uses project-specific requirements and methods.

However, the WRI GHG Protocol clearly states that either a project-specific test or a performance standard baseline is acceptable.¹ One key reason for this is that regional or national data can give a more accurate picture of existing activity than a narrow focus on one project or organization.

Narrowing the lens of additionality to one project or one tree-planting entity can give excellent data on that project or entity, which data can also be compared to other projects or entities (common practice). But plucking one project or entity out of its regional or national context ignores all comparable regional or national data. And that regional or national data may give a more accurate standard than data from one project or entity.

By analogy: one pixel on a screen may be dark. If all you look at is the dark pixel, you see darkness. But the rest of screen may consist of white pixels and be white. Similarly, one active tree-planting organization does not mean its trees are additional on a regional basis. If the region is losing trees, the baseline of activity may be negative regardless of what one active project or entity is doing. Here is the methodology described in the WRI GHG Protocol to determine a Performance Standard baseline, together with the application of each factor to urban forestry:

Table 2.1 Performance Standard Factors

WRI Performance Standard Factor	As Applied to Urban Forestry
Describe the project activity	Increase in urban trees
Identify the types of candidates	Cities and towns, quasi-governmental entities like utilities, watersheds, and educational institutions, and private property owners
Set the geographic scope (a national scope is explicitly approved as the starting point)	Could use national data for urban forestry, or regional data
Set the temporal scope (start with 5-7 years and justify longer or shorter)	Use 4-7 years for urban forestry
Identify a list of multiple baseline candidates	Many urban areas, which could be blended mathematically to produce a performance standard baseline

¹ WRI GHG Protocol, Chapter 2.14 at 16 and Chapter 3.2 at 19.

The Performance Standard methodology approves of the use of data from many different baseline candidates. In the case of urban forestry, those baseline candidates are other urban areas.²

As stated above, the project activity defined is obtaining an increase in urban trees. The best data to show the increase in urban trees via urban forest project activities is national or regional data on tree canopy in urban areas. National or regional data will give a more comprehensive picture of the relevant activity (increase in urban trees) than data from one city, in the same way that a satellite photo of a city shows a more accurate picture of tree canopy in a city than an aerial photo of one neighborhood. Tree canopy data measures the tree cover in urban areas, so it includes multiple baseline candidates such as city governments and private property owners. Tree canopy data, over time, would show the increase or decrease in tree cover.

Data on Tree Canopy Change over Time in Urban Areas

The CFC quantitative team determined that there were data on urban tree canopy cover with a temporal range of four to six years available from four geographic regions. The data are set forth below:

Table 2.2 Changes in Urban Tree Canopy (UTC) by Region (from Nowak and Greenfield, 2012, see footnote 7)

City	Abs Change UTC (%)	Relative Change UTC (%)	Ann. Rate (ha UTC/yr)	Ann. Rate (m ² UTC/cap/yr)	Data Years
EAST					
Baltimore, MD	-1.9	-6.3	-100	-1.5	(2001–2005)
Boston, MA	-0.9	-3.2	-20	-0.3	(2003–2008)
New York, NY	-1.2	-5.5	-180	-0.2	(2004–2009)
Pittsburgh, PA	-0.3	-0.8	-10	-0.3	(2004–2008)
Syracuse, NY	1.0	4.0	10	0.7	(2003–2009)
Mean changes	-0.7	-2.4	-60.0	-0.3	
Std Error	0.5	1.9	35.4	0.3	
SOUTH					
Atlanta, GA	-1.8	-3.4	-150	-3.1	(2005–2009)
Houston, TX	-3.0	-9.8	-890	-4.3	(2004–2009)
Miami, FL	-1.7	-7.1	-30	-0.8	(2003–2009)
Nashville, TN	-1.2	-2.4	-300	-5.3	(2003–2008)
New Orleans, LA	-9.6	-29.2	-1120	-24.6	(2005–2009)
Mean changes	-3.5	-10.4	-160.0	-7.6	
Std Error	1.6	4.9	60.5	4.3	
MIDWEST					
Chicago, IL	-0.5	-2.7	-70	-0.2	(2005–2009)
Detroit, MI	-0.7	-3.0	-60	-0.7	(2005–2009)
Kansas City, MO	-1.2	-4.2	-160	-3.5	(2003–2009)

² See Nowak, et al. "Tree and Impervious Cover Change in U.S. Cities," Urban Forestry and Urban Greening, 11 (2012), 21-30

City	Abs Change UTC (%)	Relative Change UTC (%)	Ann. Rate (ha UTC/yr)	Ann. Rate (m2 UTC/cap/yr)	Data Years
Minneapolis, MN	-1.1	-3.1	-30	-0.8	(2003–2008)
Mean changes	-0.9	-3.3	-80.0	-1.3	
Std Error	0.2	0.3	28.0	0.7	
WEST					
Albuquerque, NM	-2.7	-6.6	-420	-8.3	(2006–2009)
Denver, CO	-0.3	-3.1	-30	-0.5	(2005–2009)
Los Angeles, CA	-0.9	-4.2	-270	-0.7	(2005–2009)
Portland, OR	-0.6	-1.9	-50	-0.9	(2005–2009)
Spokane, WA	-0.6	-2.5	-20	-1.0	(2002–2007)
Tacoma, WA	-1.4	-5.8	-50	-2.6	(2001–2005)
Mean changes	-1.1	-4.0	-140.0	-2.3	
Std Error	0.4	0.8	67.8	1.2	

These data have been updated by Nowak and Greenfield.³ The 2012 data show that urban tree canopy is experiencing negative growth in all four regions. The 2018 data document continued loss of urban tree cover.

Table 3 of the 2018 article shows data for all states, with a national loss of urban and community tree cover of 175,000 acres per year during the study years of 2009-2014.

To put this loss in perspective, the total land area of urban and community tree cover loss during the study years totals 1,367 square miles – equal to the combined land area of New York City, Atlanta, Philadelphia, Miami, Boston, Cleveland, Pittsburgh, St. Louis, Portland, OR, San Francisco, Seattle, and Boise.

Even though there may be individual tree planting activities that increase the number of urban trees within small geographic locations, the performance of activities to increase tree cover shows a negative baseline. The Drafting Group did not use negative baselines for the Tree Planting Protocol, but determined to use baselines of zero.

Deployment of the Performance Standard baseline methodology for a City Forest Planting Protocol is supported by conclusions that make sense and are anchored in the real world:

- With the data showing that tree loss exceeds gains from planting, new plantings are justified as additional to that decreasing canopy baseline. In fact, the negative baseline would justify as additional any trees that are protected from removal.
- Because almost no urban trees are planted now with carbon as a decisive factor, urban tree planting done to sequester carbon is additional;
- Almost no urban trees are currently planted with a contractual commitment for monitoring. Maintenance of trees is universally an intention, one that is frequently reached when budgets are cut, as in the Covid-19 era. The 25-year commitment required by this Protocol is entirely

³ Nowak et al. 2018. “Declining Urban and Community Tree Cover in the United States,” *Urban Forestry and Urban Greening*, 32, 32-55

additional to any practice in place in the U.S. and will result in substantial additional trees surviving to maturity;

- Because the urban forest is a public resource, and because public funding falls far short of maintaining tree cover and stocking, carbon revenues will result in additional trees planted or in maintenance that will result in additional trees surviving to maturity;
- Because virtually all new large-scale urban tree planting is conducted by governmental entities or non-profits, or by private property developers complying with governmental regulations (which would not be eligible for carbon credits under our protocol), and because any carbon revenues will defray only a portion of the costs of tree planting, there is little danger of unjust enrichment to developers of city forest carbon projects.

Last, The WRI GHG Protocol recognizes explicitly that the principles underlying carbon protocols need to be adapted to different types of projects. The WRI Protocol further approves of balancing the stringency of requirements with the need to encourage participation in desirable carbon projects:

Setting the stringency of additionality rules involves a balancing act. Additionality criteria that are too lenient and grant recognition for “non-additional” GHG reductions will undermine the GHG program’s effectiveness. On the other hand, making the criteria for additionality too stringent could unnecessarily limit the number of recognized GHG reductions, in some cases excluding project activities that are truly additional and highly desirable. In practice, no approach to additionality can completely avoid these kinds of errors. Generally, reducing one type of error will result in an increase of the other. Ultimately, there is no technically correct level of stringency for additionality rules. GHG programs may decide based on their policy objectives that it is better to avoid one type of error than the other.⁴

The policy considerations weigh heavily in favor of “highly desirable” planting projects to reverse tree loss for the public resource of city forests.

⁴ WRI GHG Protocol, Chapter 3.1 at 19.

Attachment 13

QUANTIFYING CARBON DIOXIDE STORAGE AND CO-BENEFITS FOR URBAN TREE PLANTING PROJECTS (Appendix A)

Introduction

Ecoservices provided by trees to human beneficiaries are classified according to their spatial scale as global and local (Costanza 2008) (citations for Part Two are listed in References). Removal of carbon dioxide (CO₂) from the atmosphere by urban forests is global because the atmosphere is so well-mixed it does not matter where the trees are located. The effects of urban forests on building energy use is a local-scale service because it depends on the proximity of trees to buildings.

To quantify these and other ecoservices City Forest Credits (CFC) has relied on peer-reviewed research that has combined measurements and modeling of urban tree biomass, and effects of trees on building energy use, rainfall interception, and air quality. CFC has used the most current science available on urban tree growth in its estimates of CO₂ storage (McPherson et al., 2016a). CFC's quantification tools provide estimates of co-benefits after 25 years in Resource Units (i.e., kWh of electricity saved) and dollars per year. Values for co-benefits are first-order approximations extracted from the i-Tree Streets (i-Tree Eco) datasets for each of the 16 U.S. reference cities/climate zones (<https://www.itreetools.org/tools/i-tree-eco>) (Maco and McPherson, 2003). Modeling approaches and error estimates associated with quantification of CO₂ storage and co-benefits have been documented in numerous publications (see References below) and are summarized here.

Carbon Dioxide Storage

Project Operators must use one of three different methods for quantifying carbon dioxide (CO₂) storage in urban forest carbon projects. Selection of the quantification method depends on the planting project design:

- Single Tree Method - trees planted in a dispersed or scattered design and that are planted at least 10 feet apart (i.e. street trees). This method requires tracking of individual trees and tree survival for sampling and quantification.
- Clustered Method - to trees planted at least 10 feet apart but are relatively contiguous and designed to create canopy over an area (i.e park-like settings). This method requires tracking change in canopy, not individual tree survival
- Area Reforestation Method – tree planting areas greater than 5 acres and where many trees are planted closer than 10 feet. Higher tree mortality is expected and the goals are to create canopy and a forest ecosystem. Project Operators have several quantification models to choose from, all of which produce a carbon index on a per-acre basis.

In all cases, the estimated amount of CO₂ stored 26-years after planting is calculated. The forecasted amount of CO₂ stored during this time is the value from which the Registry issues ex ante Carbon Forward Removal Credits.TM

To ensure performance of the credits, the Registry issues Carbon Forward Removal Credits at five times during the 26-year Project Duration:

- 10% after planting
- 30% in Year 4, after sampling and mortality check or imaging and calculating canopy

- 30% in Year 6, after sampling and mortality check or imaging and calculating canopy
- 10% in Year 14, after measuring sampled trees or imaging and calculating canopy and
- “True-up” credits at the end of the initial Project Duration in Year 26, when CO₂e is quantified from tree measurement and final credits are issued for CO₂e stored minus credits already issued.

The mortality checks at Years 4 and 6 correspond to national mortality data that shows increased survival rates after three years and six years.

The Registry will issue 95% of Project Credits earned and will hold 5% of total credits in the Registry’s Reversal Pool Account. This 5% Reversal Pool Account deduction is applied in all three quantification methods before calculation of any crediting, with these funds going into a program-wide pool to insure against unavoidable reversals due to catastrophic loss of trees.

All ex ante Carbon Forward Removal Credits convert to ex post City Forest Carbon+ Credits at Year 26 and are marked in the registry of credits.

Scientific Basis for Carbon Dioxide Quantification

Estimates of stored (amount accumulated over many years) and sequestered CO₂ (i.e., net amount stored by tree growth over one year) are based on the U.S. Forest Service’s recently published technical manual and the extensive Urban Tree Database (UTD), which catalogs urban trees with their projected growth tailored to specific geographic regions (McPherson et al. 2016a, b). The products are a culmination of 14 years of work, analyzing more than 14,000 trees across the United States. Whereas prior growth models typically featured only a few species specific to a given city or region, the newly released database features 171 distinct species across 16 U.S. climate zones. The trees studied also spanned a range of ages with data collected from a consistent set of measurements. Advances in statistical modeling have given the projected growth dimensions a level of accuracy never before seen. Moving beyond just calculating a tree’s diameter or age to determine expected growth, the research incorporates 365 sets of tree growth equations to project growth.

Users select their climate zone from the 16 U.S. climate zones (Fig. 1). Calculations of CO₂ stored are for a representative species for each tree-type that was one of the predominant street tree species per reference city ([Peper et al., 2001](#)). The “Reference city” refers to the city selected for intensive study within each climate zone ([McPherson, 2010](#)). About 20 of the most abundant species were selected for sampling in each reference city. The sample was stratified into nine diameter at breast height (DBH) classes (0 to 7.6, 7.6 to 15.2, 15.2 to 30.5, 30.5 to 45.7, 45.7 to 61.0, 61.0 to 76.2, 76.2 to 91.4, 91.4 to 106.7, and >106.7 cm). Typically 10 to 15 trees per DBH class were randomly chosen. Data were collected for 16 to 74 trees in total from each species. Measurements included: species name, age, DBH [to the nearest 0.1 cm (0.39 in)], tree height [to the nearest 0.5 m (1.64 ft.)], crown height [to the nearest 0.5 m (1.64 ft.)], and crown diameter in two directions [parallel and perpendicular to nearest street to the nearest 0.5 m (1.64 ft.)]. Tree age was determined from local residents, the city’s urban forester, street and home construction dates, historical planting records, and aerial and historical photos.

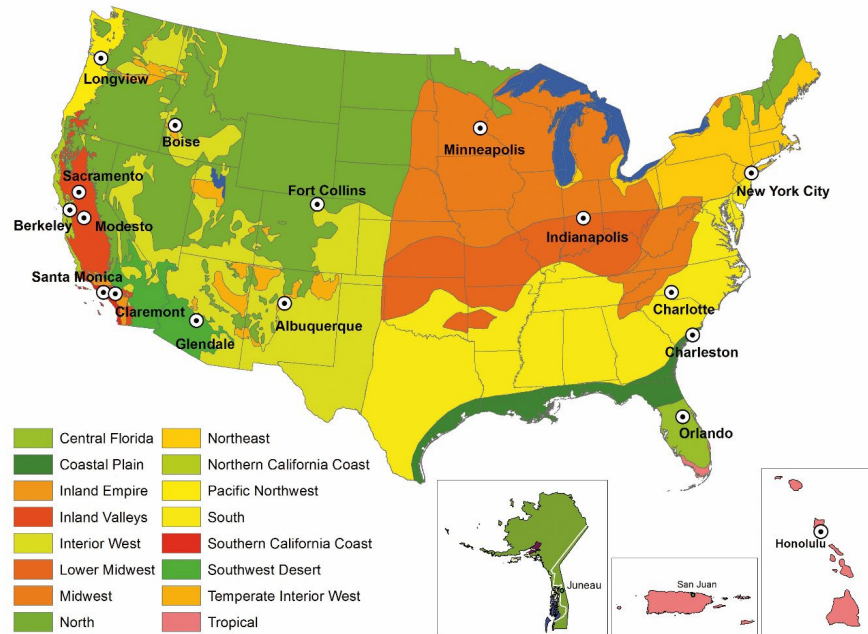


Figure 1. Climate zones of the United States and Puerto Rico were aggregated from 45 Sunset climate zones into 16 zones. Each zone has a reference city where tree data were collected. Sacramento, California was added as a second reference city (with Modesto) to the Inland Valleys zone. Zones for Alaska, Puerto Rico and Hawaii are shown in the insets (map courtesy of Pacific Southwest Research Station).

Species Assignment by Tree-Type

Representative species for each tree-type in the South climate zone (reference city is Charlotte, NC) are shown in Table 1. They were chosen because extensive measurements were taken on them to generate growth equations, and their mature size and form was deemed typical of other trees in that tree-type. Representative species were not available for some tree-types because none were measured. In that case, a species of similar mature size and form from the same climate zone was selected, or one from another climate zone was selected. For example, no Broadleaf Evergreen Large (BEL) species was measured in the South reference city. Because of its large mature size, *Quercus nigra* was selected to represent the BEL tree-type, although it is deciduous for a short time. *Pinus contorta*, which was measured in the PNW climate zone, was selected for the CES tree-type, because no CES species was measured in the South.

Table 1. Nine tree-types and abbreviations. Representative species assigned to each tree-type in the South climate zone are listed. The biomass equations (species, urban general broadleaf [UGB], urban general conifer [UGC]) and dry weight density (kg/m^3) used to calculate biomass are listed for each tree-type.

Tree-Type	Tree-Type Abbreviation	Species Assigned	DW Density	Biomass Equations
Brdlf Decid Large (>50 ft)	BDL	<i>Quercus phellos</i>	600	<i>Quercus macrocarpa</i> ¹ .
Brdlf Decid Med (30-50 ft)	BDM	<i>Pyrus calleryana</i>	600	UGB ² .
Brdlf Decid Small (<30 ft)	BDS	<i>Cornus florida</i>	545	UGB ² .
Brdlf Evgrn Large (>50 ft)	BEL	<i>Quercus nigra</i>	797	UGB ² .

Brdlf Evgrn Med (30-50 ft)	BEM	<i>Magnolia grandiflora</i>	523	UGB ^{2.}
Brdlf Evgrn Small (<30 ft)	BES	<i>Ilex opaca</i>	580	UGB ^{2.}
Conif Evgrn Large (>50 ft)	CEL	<i>Pinus taeda</i>	389	UGC ^{2.}
Conif Evgrn Med (30-50 ft)	CEM	<i>Juniperus virginiana</i>	393	UGC ^{2.}
Conif Evgrn Small (<30 ft)	CES	<i>Pinus contorta</i>	397	UGC ^{2.}
¹ from Lefsky, M., & McHale, M., 2008.				
² from Aguaron, E., & McPherson, E. G., 2012				

Calculating Biomass and Carbon Dioxide Stored

To estimate CO₂ stored, the biomass for each tree-type was calculated using urban-based allometric equations because open-growing city trees partition carbon differently than forest trees (McPherson et al., 2017a). Input variables included climate zone, species, and DBH. To project tree size at 25-years after planting, we used DBH obtained from UTD growth curves for each representative species.

Biomass equations were compiled for 26 open-grown urban trees species from literature sources (Aguaron and McPherson, 2012). General equations (Urban Gen Broadleaf and Urban Gen Conifer) were developed from the 26 urban-based equations that were species specific (McPherson et al., 2016a). These equations were used if the species of interest could not be matched taxonomically or through wood form to one of the urban species with a biomass equation. Hence, urban general equations were an alternative to applying species-specific equations because many species did not have an equation.

These allometric equations yielded aboveground wood volume. Species-specific dry weight (DW) density factors (Table 1) were used to convert green volume into dry weight (7a). The urban general equations required looking up a dry weight density factor (in Jenkins et al. 2004 first, but if not available then the Global Wood Density Database). The amount of belowground biomass in roots of urban trees is not well researched. This work assumed that root biomass was 28% of total tree biomass (Cairns et al., 1997; Husch et al., 2003; Wenger, 1984). Wood volume (dry weight) was converted to C by multiplying by the constant 0.50 (Leith, 1975), and C was converted to CO₂ by multiplying by 3.667.

Error Estimates and Limitations

The lack of biometric data from the field remains a serious limitation to our ability to calibrate biomass equations and assign error estimates for urban trees. Differences between modeled and actual tree growth adds uncertainty to CO₂ sequestration estimates. Species assignment errors result from matching species planted with the tree-type used for biomass and growth calculations. The magnitude of this error depends on the goodness of fit in terms of matching size and growth rate. In previous urban studies the prediction bias for estimates of CO₂ storage ranged from -9% to +15%, with inaccuracies as much as 51% RMSE (Timilsina et al., 2014). Hence, a conservative estimate of error of ± 20% can be applied to estimates of total CO₂ stored as an indicator of precision.

Co-Benefit: Energy Savings

Trees and forests can offer energy savings in two important ways. In warmer climates or hotter months, trees can reduce air conditioning bills by keeping buildings cooler through reducing regional air temperatures and offering shade. In colder climates or cooler months, trees can confer savings on the fuel needed to heat buildings by reducing the amount of cold winds that can strip away heat.

Energy conservation by trees is important because building energy use is a major contributor to greenhouse gas emissions. Oil or gas furnaces and most forms of electricity generation produce CO₂ and other pollutants as by-products. Reducing the amount of energy consumed by buildings in urban areas is one of the most effective methods of combatting climate change. Energy consumption is also a costly burden on many low-income families, especially during mid-summer or mid-winter. Furthermore, electricity consumption during mid-summer can sometimes over-extend local power grids leading to rolling brownouts and other problems.

Energy savings are calculated through numerical models and simulations built from observational data on proximity of trees to buildings, tree shapes, tree sizes, building age classes, and meteorological data from McPherson et al. (2017) and McPherson and Simpson (2003). The main parameters affecting the overall amount of energy savings are crown shape, building proximity, azimuth, local climate, and season. Shading effects are based on the distribution of street trees with respect to buildings recorded from aerial photographs for each reference city ([McPherson and Simpson, 2003](#)). If a sampled tree was located within 18 m of a conditioned building, information on its distance and compass bearing relative to a building, building age class (which influences energy use) and types of heating and cooling equipment were collected and used as inputs to calculate effects of shade on annual heating and cooling energy effects. Because these distributions were unique to each city, energy values are considered first-order approximations.

In addition to localized shade effects, which were assumed to accrue only to trees within 18 m of a building, lowered air temperatures and windspeeds from increased neighborhood tree cover (referred to as climate effects) can produce a net decrease in demand for winter heating and summer cooling (reduced wind speeds by themselves may increase or decrease cooling demand, depending on the circumstances). Climate effects on energy use, air temperature, and wind speed, as a function of neighborhood canopy cover, were estimated from published values for each reference city. The percentages of canopy cover increase were calculated for 20-year-old large, medium, and small trees, based on their crown projection areas and effective lot size (actual lot size plus a portion of adjacent street and other rights-of-way) of 10,000 ft² (929 m²), and one tree on average was assumed per lot. Climate effects were estimated by simulating effects of wind and air-temperature reductions on building energy use.

In the case of urban Tree Preservation Projects, trees may not be close enough to buildings to provide shading effects, but they may influence neighborhood climate. Because these effects are highly site-specific, we conservatively apply an 80% reduction to the energy effects of trees for Preservation Projects.

Energy savings are calculated as a real-dollar amount. This is calculated by applying overall reductions in oil and gas usage or electricity usage to the regional cost of oil and gas or electricity for residential customers. Colder regions tend to see larger savings in heating and warmer regions tend to see larger savings in cooling.

Error Estimates and Limitations

Formulaic errors occur in modeling of energy effects. For example, relations between different levels of tree canopy cover and summertime air temperatures are not well-researched. Another source of error stems from differences between the airport climate data (i.e., Los Angeles International Airport) used to model energy effects and the actual climate of the study area (i.e., Los Angeles urban area). Because of

the uncertainty associated with modeling effects of trees on building energy use, energy estimates may be accurate within ± 25 percent ([Hildebrandt & Sarkovich, 1998](#)).

Co-Benefit: Rainfall Interception

Forest canopies normally intercept 10-40% of rainfall before it hits the ground, thereby reducing stormwater runoff. The large amount of water that a tree crown can capture during a rainfall event makes tree planting a best management practice for urban stormwater control.

City Forest Credits uses a numerical interception model to calculate the amount of annual rainfall intercepted by trees, as well as throughfall and stem flow ([Xiao et al., 2000](#)). This model uses species-specific leaf surface areas and other parameters from the Urban Tree Database. For example, deciduous trees in climate zones with longer “in-leaf” seasons will tend to intercept more rainfall than similar species in colder areas shorter foliage periods. Model results were compared to observed patterns of rainfall interception and found to be accurate. This method quantifies only the amount of rainfall intercepted by the tree crown, and does not incorporate surface and subsurface effects on overland flow.

The rainfall interception benefit was priced by estimating costs of controlling stormwater runoff. Water quality and/or flood control costs were calculated per unit volume of runoff controlled and this price was multiplied by the amount of rainfall intercepted annually.

Error Estimates and Limitations

Estimates of rainfall interception are sensitive to uncertainties regarding rainfall patterns, tree leaf area and surface storage capacities. Rainfall amount, intensity and duration can vary considerably within a climate zone, a factor not considered by the model. Although tree leaf area estimates were derived from extensive measurements on over 14,000 street trees across the U.S. ([McPherson et al., 2016a](#)), actual leaf area may differ because of differences in tree health and management. Leaf surface storage capacity, the depth of water that foliage can capture, was recently found to vary threefold among 20 tree species ([Xiao & McPherson, 2016](#)). A shortcoming is that this model used the same value (1 mm) for all species. Given these limitations, interception estimates may have uncertainty as great as ± 20 percent.

Co-Benefit: Air Quality

The uptake of air pollutants by urban forests can lower concentrations and affect human health ([Derkzen et al., 2015](#); [Nowak et al., 2014](#)). However, pollutant concentrations can be increased if the tree canopy restricts polluted air from mixing with the surrounding atmosphere ([Vos et al., 2013](#)). Urban forests are capable of improving air quality by lowering pollutant concentrations enough to significantly affect human health. Generally, trees are able to reduce ozone, nitric oxides, and particulate matter. Some trees can reduce net volatile organic compounds (VOCs), but others can increase them through natural processes. Regardless of the net VOC production, urban forests usually confer a net positive benefit to air quality. Urban forests reduce pollutants through dry deposition on surfaces and uptake of pollutants into leaf stomata.

A numerical model calculated hourly pollutant dry deposition per tree at the regional scale using deposition velocities, hourly meteorological data and pollutant concentrations from local monitoring stations ([Scott et al., 1998](#)). The monetary value of tree effects on air quality reflects the value that society places on clean air, as indicated by willingness to pay for pollutant reductions. The monetary

value of air quality effects were derived from models that calculated the marginal damage control costs of different pollutants to meet air quality standards (Wang and Santini 1995). Higher costs were associated with higher pollutant concentrations and larger populations exposed to these contaminants.

Error Estimates and Limitations

Pollutant deposition estimates are sensitive to uncertainties associated with canopy resistance, resuspension rates and the spatial distribution of air pollutants and trees. For example, deposition to urban forests during warm periods may be underestimated if the stomata of well-watered trees remain open. In the model, hourly meteorological data from a single station for each climate zone may not be spatially representative of conditions in local atmospheric surface layers. Estimates of air pollutant uptake may be accurate within ± 25 percent.

Conclusions

Our estimates of carbon dioxide storage and co-benefits reflect an incomplete understanding of the processes by which ecoservices are generated and valued (Schulp et al., 2014). Our choice of co-benefits to quantify was limited to those for which numerical models were available. There are many important benefits produced by trees that are not quantified and monetized. These include effects of urban forests on local economies, wildlife, biodiversity and human health and well-being. For instance, effects of urban trees on increased property values have proven to be substantial (Anderson & Cordell, 1988). Previous analyses modeled these “other” benefits of trees by applying the contribution to residential sales prices of a large front yard tree (0.88%) (McPherson et al., 2005). We have not incorporated this benefit because property values are highly variable. It is likely that co-benefits reported here are conservative estimates of the actual ecoservices resulting from local tree planting projects.

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Attachments

[Attestation of Land Ownership](#)

[Project Area Map](#)

[Regional Area Map](#)

[Attestation of Planting](#)

[Attestation of Planting Affirmation](#)

[Attestation of No Double Counting and No Net Harm](#)

[Attestation of Additionality](#)

[Carbon Quantification Initial Credit Tool](#)

[Tree Planting Data](#)

[Social Impacts](#)

Attestation of Land Ownership



City of Highland Park-Urban Forest Rejuvenation Attestation of Land Ownership

I am the City Forester for the City of Highland Park, IL and make this attestation regarding the ownership of land upon which the City of Highland Park, IL is the Project Operator of a tree planting project; the City of Highland Park-Urban Forest Rejuvenation.

1. Land Ownership

The City of Highland Park, IL is the owner in fee simple of the land identified in Section 2 and in Exhibit A.

2. Subject Lands

The Property upon which the City of Highland Park-Urban Forest Rejuvenation Project is planting trees and which is the subject of this Attestation is specified in Exhibit A.

Signed on August 31 in 2022, by Benjamin Miller-City Forester, for City of Highland Park, IL.

Signature

Benjamin R. Miller

Printed Name

847.926.1179

Phone

bmiller@cityhpil.com

Email

Exhibit A: Highland Park Project Area

Legend

Species

Baldcypress

Buckeye

Catalpa

Cornelian Cherry

Crabapple

Dawn Redwood

Elm

Filbert

Hackberry

Hawthorn

Honey Locust

Hophornbeam

Hornbeam

Horsechestnut

Japanese Tree Lilac

Katsuratree

Kentucky Coffeetree

London Planetree

Magnolia

Oak

Redbud

River Birch

Serviceberry

Smoketree

Sweetgum

Tuliptree

Forestry Regions

1

2

3

4

5

6

7

8

Highland Park Boundary



0 0.25 0.5 1 Miles

Project Area Map

Highland Park Project Area

Legend

Species

Baldcypress

Buckeye

Catalpa

Cornelian Cherry

Crabapple

Dawn Redwood

Elm

Filbert

Hackberry

Hawthorn

Honey Locust

Hophornbeam

Hornbeam

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Redbud

River Birch

Serviceberry

Smoketree

Sweetgum

Tuliptree

Forestry Regions

1

2

3

4

5

6

7

8

Highland Park Boundary



0 0.25 0.5 1 Miles

Region: 1

Legend

Species

Baldcypress

Buckeye

Catalpa

Crabapple

Dawn Redwood

Elm

Hackberry

Honey Locust

Japanese Tree Lilac

Katsuratree

Kentucky Coffeetree

London Planetree

Magnolia

Oak

Serviceberry

Sweetgum

Tuliptree

Forestry Regions

1

Highland Park Boundary



0 375 750 1,500 Feet

Region: 2

Legend

Species

Baldcypress

Buckeye

Catalpa

Cornelian Cherry

Crabapple

Dawn Redwood

Elm

Hackberry

Hawthorn

Honey Locust

Hophornbeam

Hornbeam

Japanese Tree Lilac

Katsuratree

Kentucky Coffeetree

London Planetree

Oak

Redbud

River Birch

Serviceberry

Smoketree

Sweetgum

Tuliptree

Forestry Regions

2

Highland Park Boundary

This map displays the distribution of various tree species within a specific region, labeled 'Region: 2'. The region is highlighted in light green and is bounded by a black line. The map includes a legend in the top right corner, which lists 20 tree species and their corresponding colors: Baldcypress (purple), Buckeye (green), Catalpa (cyan), Cornelian Cherry (blue), Crabapple (dark blue), Dawn Redwood (dark green), Elm (yellow-green), Hackberry (yellow), Hawthorn (magenta), Honey Locust (light green), Hophornbeam (dark purple), Hornbeam (dark blue), Japanese Tree Lilac (red), Katsuratree (brown), Kentucky Coffeetree (dark blue), London Planetree (dark purple), Oak (yellow), Redbud (yellow-green), River Birch (purple), Serviceberry (purple), Smoketree (teal), Sweetgum (teal), and Tuliptree (orange). The map also shows a network of roads, including major thoroughfares like Berkeley Rd, Central Ave, and Lake Cook Rd, as well as smaller residential streets. A scale bar in the bottom left corner indicates distances up to 1,500 feet, and a north arrow is positioned above it. The map is divided into several smaller green areas, likely representing different forestry regions or management zones.

Region: 3

Legend

Species

- | | |
|---------------|---------------------|
| Baldcypress | Japanese Tree Lilac |
| Buckeye | Katsuratre |
| Catalpa | Kentucky Coffeetree |
| Crabapple | London Planetree |
| Dawn Redwood | Magnolia |
| Elm | Oak |
| Filbert | Redbud |
| Hackberry | Serviceberry |
| Honey Locust | Sweetgum |
| Hophornbeam | Tuliptree |
| Hornbeam | |
| Horsechestnut | |

Forestry Regions

- | |
|------------------------|
| 3 |
| Highland Park Boundary |



0 500 1,000 2,000 Feet

Region: 4

Legend

Species

- | | |
|------------------|---------------------|
| Baldcypress | Japanese Tree Lilac |
| Buckeye | Katsuratree |
| Catalpa | Kentucky Coffeetree |
| Cornelian Cherry | London Planetree |
| Crabapple | Magnolia |
| Elm | Oak |
| Hackberry | Redbud |
| Hawthorn | Serviceberry |
| Honey Locust | Sweetgum |
| Hophornbeam | Tuliptree |
| Hornbeam | |
| Horsechestnut | |

Forestry Regions

- | |
|------------------------|
| 4 |
| Highland Park Boundary |



0 500 1,000 2,000 Feet

Region: 5

Legend

Species

Baldcypress

Buckeye

Catalpa

Crabapple

Dawn Redwood

Elm

Hackberry

Hawthorn

Honey Locust

Hophornbeam

Horsechestnut

Japanese Tree Lilac

Kentucky Coffeetree

London Planetree

Oak

Redbud

River Birch

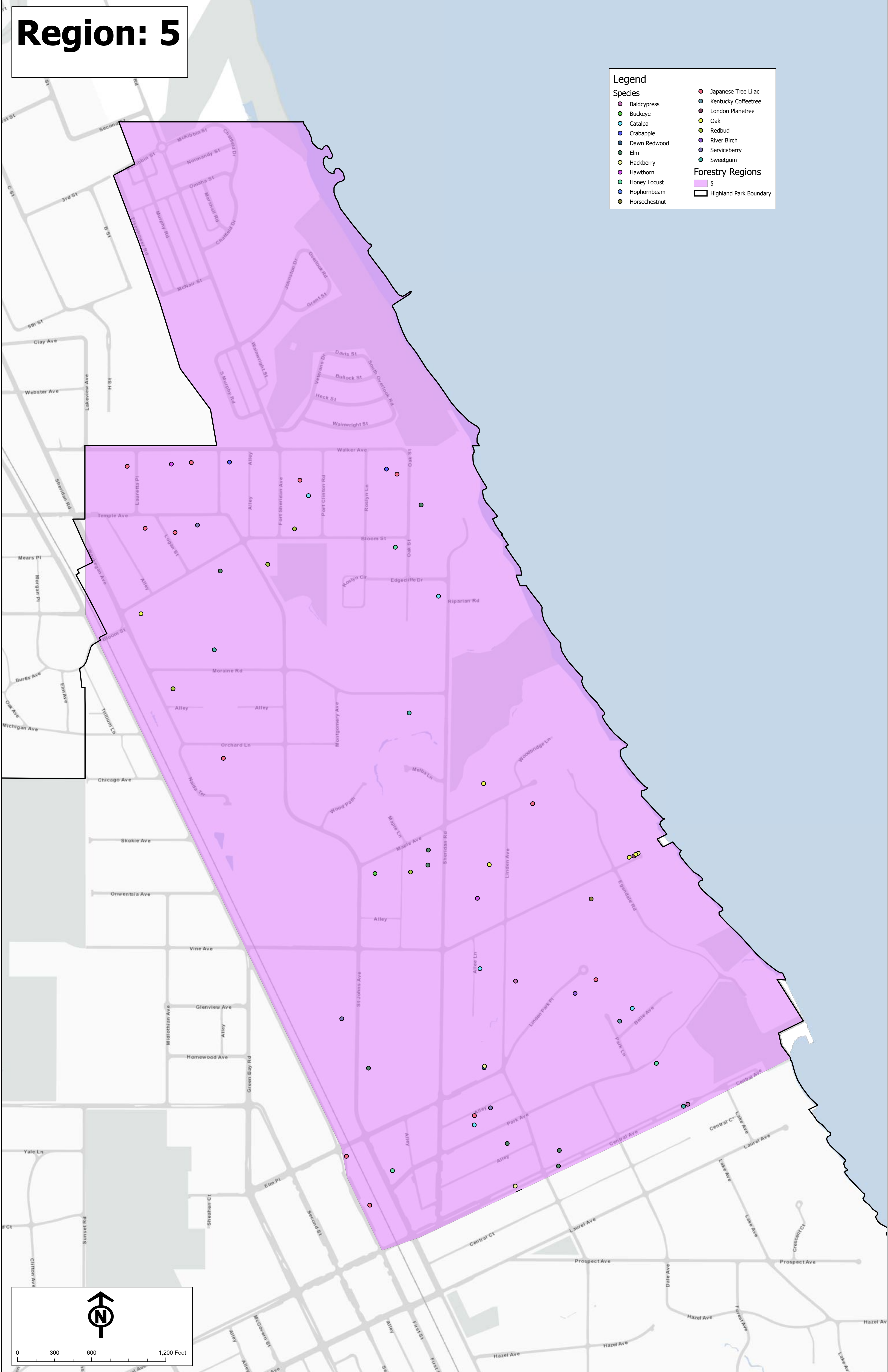
Serviceberry

Sweetgum

Forestry Regions

5

Highland Park Boundary



Region: 6

Legend

Species

Baldcypress

Buckeye

Catalpa

Crabapple

Dawn Redwood

Elm

Filbert

Hackberry

Hawthorn

Honey Locust

Hophornbeam

Hornbeam

Horsechestnut

Japanese Tree Lilac

Katsuratree

Kentucky Coffeetree

London Planetree

Magnolia

Oak

Redbud

Serviceberry

Smoketree

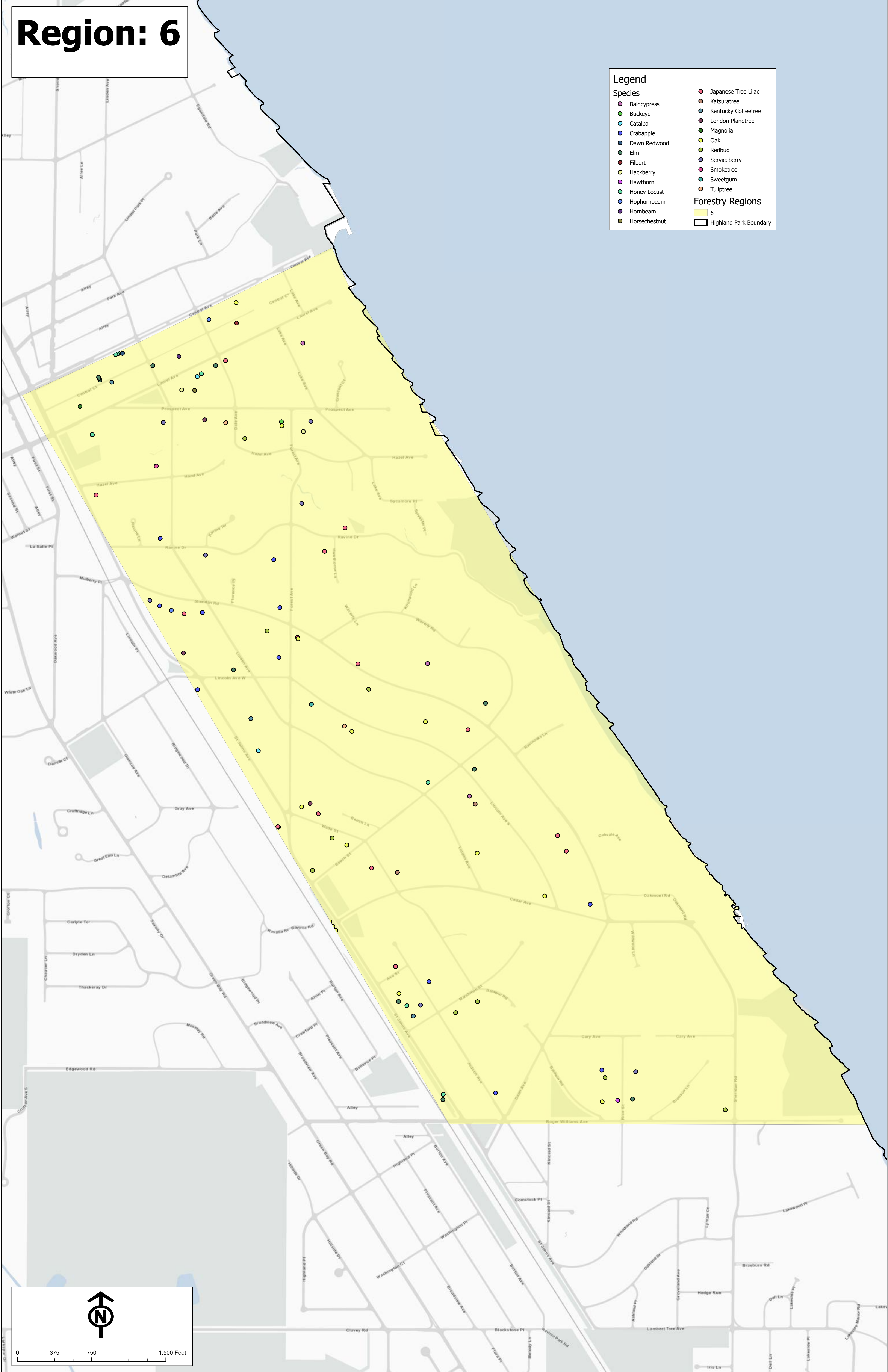
Sweetgum

Tuliptree

Forestry Regions

6

Highland Park Boundary



Region: 7

Legend

Species

Baldcypress

Buckeye

Catalpa

Crabapple

Dawn Redwood

Elm

Filbert

Hackberry

Hawthorn

Honey Locust

Hornbeam

Horsechestnut

Japanese Tree Lilac

Katsuratree

Kentucky Coffeetree

London Planetree

Magnolia

Oak

Redbud

River Birch

Serviceberry

Sweetgum

Tuliptree

Forestry Regions

7

Highland Park Boundary

This map displays the geographical distribution of various tree species within Region 7, which is highlighted in light green. The map includes a detailed street network, with major roads like I-41 and I-90 clearly marked. A legend in the top right corner identifies 20 tree species, each represented by a colored dot: Baldcypress (purple), Buckeye (green), Catalpa (blue), Crabapple (dark blue), Dawn Redwood (yellow), Elm (dark green), Filbert (red), Hackberry (orange), Hawthorn (pink), Honey Locust (light green), Hornbeam (light blue), Horsechestnut (brown), Japanese Tree Lilac (red), Katsuratree (brown), Kentucky Coffeetree (dark blue), London Planetree (dark purple), Magnolia (green), Oak (yellow), Redbud (yellow-green), River Birch (purple), Serviceberry (teal), Sweetgum (teal), and Tuliptree (orange). The map also shows the Highland Park Boundary as a black outline. A north arrow and a scale bar (0 to 2,000 feet) are located in the bottom left corner.

Region: 8

Legend

Species

Honey Locust

Forestry Regions

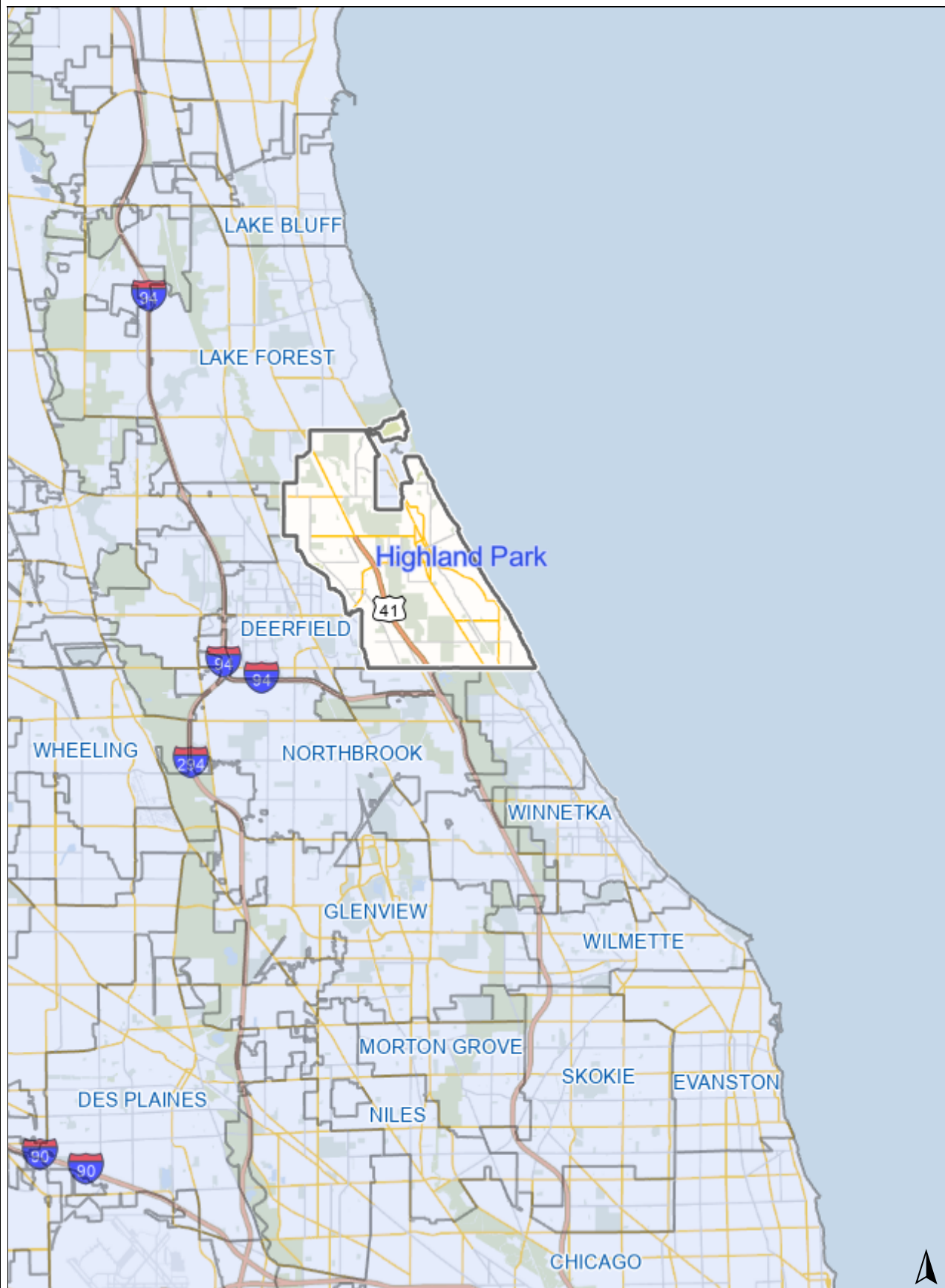
8

Highland Park Boundary



0 230 460 920 Feet

Regional Area Map

**Legend**

0 4 8 mi

Print Date: 9/8/2022**Notes**

Disclaimer: The GIS Consortium and MGP Inc. are not liable for any use, misuse, modification or disclosure of any map provided under applicable law. This map is for general information purposes only. Although the information is believed to be generally accurate, errors may exist and the user should independently confirm for accuracy. The map does not constitute a regulatory determination and is not a base for engineering design. A Registered Land Surveyor should be consulted to determine precise location boundaries on the ground.

Attestation of Planting



City of Highland Park-Urban Forest Rejuvenation Project Operator Attestation of Planting

I, the undersigned Project Operator for the Planting Project named City of Highland Park-Urban Forest Rejuvenation, located in the City of Highland Park, IL, and submitted to City Forest Credits by application dated June 9, 2022, attest to the following in order to confirm the planting of trees under this Project:

- Trees planted were not required by any law or ordinance to be planted;
- Trees were planted under this project on the following date (s): June 1, 2019 and June 23, 2022;
- The City of Highland Park, IL; in partnership with the Park District of Highland Park, local students at Highland Park High School & Northwood Middle School, and the local public service organization Northwood Gives Back participated in the planting event are listed in the attached documents;
- Planting events are shown in photos attached, which can include photos of tree stock and planting activities;
- The number of trees planted is 809

These planting numbers are confirmed by one or more of the following supporting and attached documents:

1. Invoices for trees planted, or
2. Invoices or a statement from the party who funded the tree purchase or supplied the trees attesting to the number of trees purchased, or
3. Any reporting to the owner or public body regarding the planting, invoices, costs, or other data re the planting, or
4. Any other reliable estimate of trees planted that is approved by the Registry

Signed on August 31 in 2022, by Benjamin Miller-City Forester, for the City of Highland Park, IL.

Signature

Benjamin R. Miller

Printed Name

847.926.1179

Phone

bmiller@cityhpil.com

Email

Exhibit A





Exhibit B – Invoices

The following documents represent the majority of invoices for trees planted as part of this project. All invoices are on file with the City of Highland Park, IL.

Chestnut Ridge Nursery, Inc.
225 Crescent Drive
Orchard Park, NY 14127 US
(716)725-8043
bob@chestnutridgenurseryinc.com
www.chestnutridgenursery.com



ACKNOWLEDGMENT

ADDRESS

Highland Park, IL
1707 St Johns Avenue
Highland Park, Illinois 60035

ACKNOWLEDGMENT 1102

#

DATE 04/16/2019

VARIETY	QTY	RATE	AMOUNT
Metasequoia glyptostroboides 2 1/2" B&B	5	175.00	875.00
Metasequoia glyptostroboides 3" B&B	7	190.00	1,330.00
Taxodium distichum 2 1/2" B&B	15	150.00	2,250.00
Aesculus hippocastanum 'Baumannii' 2" B&B	1	201.00	201.00
Aesculus 'Autumn Splendor' 2" B&B	6	201.00	1,206.00
Aesculus hippocastanum 'Baumannii' 2 1/2" B&B	7	260.00	1,820.00
Aesculus 'Autumn Splendor' 2 1/2" B&B	4	260.00	1,040.00
Aesculus x 'Fort McNair' 2" B&B	1	170.00	170.00
Aesculus 'Autumn Splendor' 2" B&B	6	170.00	1,020.00
Platanus x 'Exclamation' 2 1 1/2" B&B	10	175.00	1,750.00
Amelanchier 'Robin Hill' 2" B&B	10	180.00	1,800.00
FREIGHT	1	700.00	700.00

TOTAL

\$14,162.00

Accepted By

Accepted Date

08/28/19 8:36 AM

REPRINT

Kankakee Nursery Co.

P.O. Box 288 - Aroma Park, IL 60910

PHONE: (800) 344-7697 FAX: (815) 937-9389

www.kankakeenursery.com * sales@kankakeenursery.com

Page: 1

REPRINT

Order #

83091

Phone: 847-432-0807 Fax: 847-926-8885

Cell: 847-926-1604

KOHERRIN@CITYHPIL.COM

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

HIGHLAND PARK IL 60035-1740

Cont: BEN MILLER

Phone:

Cell: 847-309-6653

BMILLER@CITYHPIL.COM

EMAIL THE CONFIRMATION

TAGGED BLUE/WHITE QUOTED PRICE

YARD=1150 HALF DAY ROAD

HIGHLAND PARK IL

TF

Date Ordered Preferred Ship Date

08-27-19 FALL 2019

VIA

OUR TRUCK

Terms

NET 30

Date Shipped

Cust-No

12875

Special Instructions

Sales Tax

TAX EXEMPT

A credit application must be provided before shipment or terms will be CASH or COD.

All invoices due as terms state. A Finance charge of 1.0% per month, 12.0 % annual rate will be added to all past due accounts.

Ordered	Shipped	Description	Part No.	Price
3	N	CATALPA SPECIOSA (HESTER) 2"BB	216601181	116.00
2	N	CATALPA SPECIOSA (HESTER) 2.5"BB	216601211	142.00
3	Y	CELTIS OCCIDENTALIS HACKBE (SCOTT 1-2) 2"BB	217201181	149.00
10	N	CELTIS OCCIDENTALIS HACKBE (SCOTT 1-2) .5"BB	217201211	183.00
3	Y	GINKGO AUTUMN GOLD (SCOTT 1-2) 2"BB	234051181	231.00
2	Y	GINKGO PRINCETON SENTRY (SCOTT 1-2) 2"BB	234401181	231.00
10	N	MALUS SPRING SNOW CRAB (SCOTT 1-2) 2"BB	248651181	124.00
5	N	ULMUS TRIUMPH ELM (SCOTT 3) 3"BB	287751241	194.00
SUB TOTAL				6,274.00
TOTAL				6,274.00

We book all orders with the understanding that same shall be void should injury befall the stock from flood, drought, fire, frost or other causes beyond our control. We exercise the greatest care to keep our varieties pure and true to name and hold ourselves in readiness at all times to replace on proper proof all stock that may prove otherwise or refund the amount paid, but it is mutually agreed between the purchaser and ourselves that we shall not at any time be liable for any amount greater than the original purchase price.

BT: 17

ST: 21

SH: 0

BRT: 0

BRS: 0

CO: 0

BC: 0

All shipments travel at risk of purchaser, FOB, Aroma Park, Illinois. All claims must be filed within 10 days of receipt of shipment.

PRT DATE: 3/01/19 5/26/19 0021650 1

ATTN: BEN MILLER 847-432-0807

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

SPRING 2019

3/01/19

HIGHLAND PARK IL 60035

NET 30 DAYS

LAUREN ARNO

ATTN: BEN MILLER

847-432-0807

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

HIGHLAND PARK IL 60035

DELIVERED

MUST SHIP IN A DRY VAN

10 CERCIDIPHYLLUM JAPONICUM	1 3/4"	BB	135.00	1350.00
10 CORYLUS COLUMNA	2 1/2"	BB	160.00	1600.00
5 COTINUS OBOVATIS	2"	BB	135.00	675.00
5 COTINUS OBOVATIS	2 1/2"	BB	165.00	825.00
8 LIQUIDAMBAR STY 'MORAINES'	2"	BB	150.00	1200.00
8 LIRIODENDRON TULIPIFERA	2 1/2"	BB	170.00	1360.00
30 SYRINGA RET. 'IVORY SILK'	2"	BB	150.00	4500.00
			\$11,510.00	

Wilson Nurseries, Inc.

Sales Order

44W148 State Route 72 1555 North Highway 12 1050 Lily Cache Ln Ste B 26W200 Lake Street
Hampshire, IL 60140 Volo, IL 60041-9466 Bolingbrook, IL 60440 Hanover Park, IL 60133
(847) 683-3700 (815) 344-0944 (815) 439-7188 (847) 453-1240
(847) 683-3977 (fax) (815) 344-7087 (fax) (630) 226-1655 (fax) (630) 372-9400 (fax)

Order Number: 0453789
Loading Area: HDC
Order Date: 3/22/2019
Ship/Expire Date: 4/1/2019
Order Location: H
Salesperson: Candace
Customer Number: HIGHPC
Phone #: 847-926-1604
Fax #:

Sold To:

CITY OF HIGHLAND PARK
1150 HALF DAY ROAD
HIGHLAND PARK, IL 60035

Ship To:

CITY OF HIGHLAND PARK
1150 HALF DAY ROAD
HIGHLAND PARK, IL 60035

Ribbon Color: RDDT

Release Date:

Confirm To: BEN MILLER

Customer P.O.		Job Name: 2019 TREE PURCHASE			Terms: 2% Ten; Net 30 days			
Sales Order #:0453789					Regular	Disc. %	Price w/	
Item Number	Unit	Released	Shipped	Remaining	Price		Disc	Amount
CEC C20045		10	0	0	218.00	0.00	218.00	2,180.00
EASTERN REDBUD 2.00" #45 CNT			Whse:	H	Block:	HDC-8		
\$218.00								
COM 200		10	0	0	176.00	0.00	176.00	1,760.00
CORNELIAN CHERRY DGWD - 2.00"			Whse:	H	Block:	R-2 CTT		
\$176.00								
QUB 250		15	0	0	255.00	0.00	255.00	3,825.00
SWAMP WHITE OAK - 2.50"			Whse:	H	Block:	P-2		
\$255.00								
CAC S250		4	0	0	181.00	0.00	181.00	724.00
BLUE BEECH- 2.50" HDC			Whse:	V	Block:	VHDC1		
\$181.00								
CAC 225		3	0	0	181.00	0.00	181.00	543.00
BLUE BEECH - 2.25"			Whse:	H	Block:	P-10 W		
\$181.00 - SUB FOR BALANCE OF 2.5"								
CAC 225		3	0	0	181.00	0.00	181.00	543.00
BLUE BEECH - 2.25"			Whse:	H	Block:	P-10 E		
\$181.00								
PHYLD CP05		20	0	0	17.00	0.00	17.00	340.00
LITTLE DEVIL NINEBARK #05 CONT			Whse:	H	Block:	HDC-2N		
\$17.00								
VIDA CP05		19	0	0	15.40	0.00	15.40	292.60
AUTUMN JAZZ® VIBURNUM #05 CONT			Whse:	H	Block:	HDC-2N		
\$15.40								
VIDA CP05		1	0	0	16.20	0.00	16.20	16.20
AUTUMN JAZZ® VIBURNUM #05 CONT			Whse:	H	Block:	CNT-12		
TAMH SA48		8	0	0	74.15	0.00	74.15	593.20
HICKS ANGLOJAP YEW 4.0' HDC			Whse:	H	Block:	HDC-12		
QUME 250		10	0	0	255.00	0.00	255.00	2,550.00
CHINKAPIN OAK - 2.50"			Whse:	H	Block:	P-1		
\$255.00								
QUM 250		8	0	0	255.00	0.00	255.00	2,040.00
BUR OAK - 2.50"			Whse:	H	Block:	P-1		

Sales Order #:0453789

Item Number	Unit	Released	Shipped	Remaining	Regular Price	Disc. %	Price w/ Disc	Amount
\$255.00								
QUM 250		2	0	0	255.00	0.00	255.00	510.00
BUR OAK - 2.50"		Whse: H		Block: R-4				

\$255.00

**** NO NYLON TWINE & NON-TREATED BURLAP ****

Thank you for the opportunity to quote your plant needs. Please note that availability is subject to prior sales and prices are subject to change after the ship/expire date listed above. Prices are FOB Wilson Nurseries, Inc. Please give us a call to place this material on order. Thanks Again!

PLEASE REFER TO YOUR QUOTE NUMBER WHEN PLACING YOUR ORDER.



8920 Howe Road Wonder Lake, IL 60097
Phone: (815) 653-9293 Fax: (815) 728-0977

INVOICE

Date	Page	Number
10/14/20	1	25077

BILL TO:

CITY OF HIGHLAND PARK, PUBLIC WORKS
1150 HALF DAY ROAD
HIGHLAND PARK, IL 60035

SHIP TO:

CITY OF HIGHLAND PARK, PUBLIC WORKS
1150 HALF DAY ROAD
HIGHLAND PARK, IL 60035

Attention: KEITH O'HERRIN
Phone: 847-926-1604

Customer #	Ship Date	Ship Via	Customer PO #	Salesperson	Terms
CG100138	10/14/20	Goodmark	00085029	02 - Paul A.	Net 30 Days

Item #	Description	Qty	Ord	Qty Shp	Qty BO	Price	Amount
CORALT-G3	Dogwood, Pagoda 3 gal	5		5		11.75	58.75
OSTVIR-015	Hophornbeam, American or Ironwood 1.5	2		2		155.00	310.00
TILAME-025	Linden, American 2.5	2		2		229.00	458.00
QUERUB-CT25G1	Oak, Northern Red 25G Bag 1.5"	1		1		114.00	114.00
QUEALB-CT15G	Oak, White 15 Gal	6		6		80.00	480.00
2-DELIVERY	ZDelivery Charges	1		1		100.00	100.00
COMMENTS	ORANGE WHITE SQ - WHITE DOT BLUE					TOTAL	\$1,520.75

THANK YOU FOR YOUR BUSINESS!!!
Past due invoices are subject to interest at
1.5% per month (18% annual rate)

FRI, APR 10, 2020, 1:54 PM

DELIVERY TICKET

PG. 1

KANKAKEE NURSERY CO.

P.O. BOX 288 - AROMA PARK, IL 60910
PHONE: (800) 344-7697 / FAX: (815) 937-9389

ORDER NO.
83788

PHONE: 847-432-0807

FAX: 847-926-8885

CONT: BEN MILLER

CELL: 847-926-1604

PHONE:

CELL: 847-309-6653

KOHERRIN@CITYHPIL.COM

BMILLER@CITYHPIL.COM

CITY OF HIGHLAND PARK

QUOTED PRICESPO#00083974

1150 HALF DAY ROAD

QUOTED FREIGHT=\$450

HIGHLAND PARK

IL 60035-1740

HIGHLAND PARK

IL

SHIP DATE = 04/10/2020

VIA = SHIVES

NET 30

12875

TAX EXEMPT

SHIPPED	DESCRIPTION	PART NO.	PRICE
15	CERCIS EASTERN REDBUD	2"BB 22250118	158.00
10	GLEDITSIA SHADEMASTER LOCUST	2"BB 23768118	138.00
10	MALUS PRAIRIFIRE CRAB	2.5"BB 24806121	126.00
14	SYRINGA IVORY SILK JAP TREE LILAC	2"BB 27721118	160.00
11	SYRINGA IVORY SILK JAP TREE LILAC	2.5"BB 27721121	160.00
15	ULMUS ACCOLADE ELM	2"BB 28701118	136.00

FREIGHT= 450-

SUB TOTAL 11,050.00
TOTAL 11,050.00

Eugene A. de St Aubin & Bros., Inc.



35445 Irene Road
Kirkland, IL 60146

Confirmation

Date	Confirmation #
3/30/2020	PW101755-B

Name / Address
City of Highland Park 1150 Half Day Rd. Highland Park, IL 60035

Ship To
City of Highland Park 1150 Half Day Rd. Highland Park, IL 60035

Project	Terms	Date requested
Spring 2020	Net 30	

Item	Description	Ordered	Invoiced	Rate	Amount
B & B material	2.5" Hackberry	10	0	200.00	2,000.00
B & B material	2.25" Hawthorn	10	0	198.00	1,980.00
B & B material	2.5" Ohio Buckeye	10	0	215.00	2,150.00
B & B material	2.5" Serviceberry	10	0	215.00	2,150.00
DEL	Delivery to Highland Park	1	0	625.00	625.00
<div>Confirmation must be signed, dated and returned promptly. If signature is not received, we cannot reserve your material.</div>					

Thank you for your business!

Subtotal \$8,905.00

Sales Tax (0.0%) \$0.00

Total \$8,905.00

KANKAKEE NURSERY CO.
P.O. BX 288 - AROMA PARK, IL 60910
PH (800) 344-7697 FX (815) 937-9389
sales@kankakeenursery.com www.kankakeenursery.com

8/23/2021
 PETEW

Quote_Request #
 Q10180

QUOTE

8/20/21_0930

00012875

Fall 2021

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

HIGHLAND PARK IL 600351740

Ph: 847-432-0807 Fx: 847-926-8885 Email: BMILLER@CITYHPIL.COM

Preferred Ship Date: 10/4/2021

Date Quoted: 8/19/2021

Ship: **Delivery**

Contact: BEN MILLER

Qty Req	Qty Avail	Part Description	Comment	Item #	Unit Price
5	5	AMELANCHIER AUTUMN BRILLIANCE 1.5 in-#20 CT		21010143	\$135.00
10	10	GLEDITSIA SKYLINE LOCUST 2 in B&B		23770118	\$144.00
10	10	MALUS ADAMS CRAB 2.5 in B&B		24702121	\$150.00
10	10	MALUS SUGAR TYME CRAB 2.5 in B&B		24868121	\$110.00
5	5	QUERCUS SWAMP WHITE OAK #15RP CT	1-1.25" option 1	26975395	\$121.50
5	5	QUERCUS SWAMP WHITE OAK 1.75 in-#25 CT	option 2	26975156	\$145.00
5	5	ULMUS ACCOLADE ELM 2 in B&B		28701118	\$144.00

DISCLAIMER - Quoted prices are valid for 30 days. Nothing should be considered confirmed until a written confirmation is received. **Items on the original request not appearing are either not sold by Kankakee Nursery and lack an adequate substitute or are unavailable due to lack of inventory.** This is NOT a legal agreement and in no way guarantees availability, on time delivery, or salability of product. Kankakee Nursery Co. is not responsible for any errors &/or omissions. PLEASE NOTE, **FDR = FALL DIG RISK** (items may have higher mortality than usual if harvested in Fall)-090417plr



8920 Howe Road Wonder Lake, IL 60097
Phone: (815) 653-9293 Fax: (815) 728-0977

BILL TO:

CITY OF HIGHLAND PARK, PUBLIC WORKS
1150 HALF DAY ROAD
HIGHLAND PARK IL 60035

ACKNOWLEDGEMENT

Date	Page	Order #
3/29/21	1	26028

SHIP TO:

CITY OF HIGHLAND PARK, PUBLIC WORKS
1150 HALF DAY ROAD
HIGHLAND PARK IL 60035

847-926-1604 KEITH O'HERRIN

Customer #	Telephone	Due Date	Salesperson	Customer PO #	Release #	Terms
CG100138	847-926-1604	4/30/21	02 Paul A.	Spring 2021		Net 30 Days

Item #	Description	Quantity	Price	Amount
MACAMU-020	Maackia, Amur 2	5	165.00	825.00
QUEBIC-020	Oak, Swamp White 2"	29	175.00	5,075.00
LIRTUL-020	Tuliptree 2"	14	189.00	2,646.00
COMMENTS:	PINK WHITE SQ/PINK WHITE ST			
			AMOUNT	\$8,546.00

DRIVER'S PLEASE VERIFY ALL QUANTITIES!

02/25/21 9:33 AM

REPRINT

Kankakee Nursery Co.

P.O. Box 288 - Aroma Park, IL 60910

PHONE: (800) 344-7697 FAX: (815) 937-9389

www.kankakeenursery.com * sales@kankakeenursery.com

Page: 1

REPRINT

Order #

85035

Phone: 847-432-0807 Fax: 847-926-8885

Cell: 847-926-1604

KOHERRIN@CITYHPIL.COM

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

HIGHLAND PARK IL 60035-1740

Cont: BEN MILLER

Phone:

Cell: 847-309-6653

BMILLER@CITYHPIL.COM

QUOTED PRICES

WILL TAG 3/11/21

YARD=1150 HALF DAY ROAD

HIGHLAND PARK IL

TF

Date Ordered Preferred Ship Date

02-25-21 SPRING 2021

VIA

OUR TRUCK

Terms

NET 30

Date Shipped

Cust-No

12875

Special Instructions

Sales Tax

TAX EXEMPT

A credit application must be provided before shipment or terms will be CASH or COD.

All invoices due as terms state. A Finance charge of 1.0% per month, 12.0 % annual rate will be added to all past due accounts.

Ordered	Shipped	Description	Part No.	Price
5		NH BETULA RIVER BIRCH--TREE	2"BB 214601181	126.00
5		NH CARPINUS CAROLINIANA	2"BB 216051181	144.00
10		NH CERCIS EASTERN REDBUD	2"BB 222501181	153.00
10		NH GLEDITSIA SKYLINE LOCUST	2"BB 237701181	144.00
5		NH LIRIODENDRON TULIP TREE	1.75"BB 240951151	121.50
5		NH MACLURA WHITE SHIELD OSAGE ORANGE	2.5"BB 242031211	162.00
15		NH MALUS SUGAR TYME CRAB	2.5"BB 248681211	110.00
15		NH PLATANUS EXCLAMATION PLANETREE	2"BB 255451181	116.00
10		NH ULMUS ACCOLADE ELM	2"BB 287011181	144.00
10		NH ULMUS NEW HORIZON ELM	2.5"BB 287551211	148.00
4		NH AESCULUS HIPPI. BAUMANNII	1.5"-#25 205061553	126.00
6		NH AESCULUS HIPPI. BAUMANNII	1.75"-#25 205061563	126.00
SUB TOTAL				13,307.50
TOTAL				13,307.50

We book all orders with the understanding that same shall be void should injury befall the stock from flood, drought, fire, frost or other causes beyond our control. We exercise the greatest care to keep our varieties pure and true to name and hold ourselves in readiness at all times to replace on proper proof all stock that may prove otherwise or refund the amount paid, but it is mutually agreed between the purchaser and ourselves that we shall not at any time be liable for any amount greater than the original purchase price.

BT: 30

ST: 60

SH: 0

BRT: 0

BRS: 0

CO: 0

BC: 10

All shipments travel at risk of purchaser, FOB, Aroma Park, Illinois. All claims must be filed within 10 days of receipt of shipment.

PRT DATE: 3/02/21 0/00/00 0024057 1

ATTN: BEN MILLER 847-432-0807

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

SPRING 2021

3/02/21

HIGHLAND PARK IL 60035

NET 30 DAYS

LAUREN ARNO

ATTN: BEN MILLER

847-432-0807

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

HIGHLAND PARK IL 60035

DELIVERED

8 CATALPA SPECIOSA	2"	BB	140.00	1120.00
5 CATALPA SPECIOSA	2 1/2"	BB	155.00	775.00
5 CERCIDIPHYLLUM JAPONICUM	1 1/2"	BB	120.00	600.00
**** ADDITION ****				
10 GYMNOCLADUS DIOICUS	2"	BB	152.00	1520.00
10 LIQUIDAMBAR 'WORPLESDON'	2"	BB	145.00	1450.00
10 OSTRYA VIRGINIANA	1 1/2"	BB	140.00	1400.00
**** ADDITION ****				
10 QUERCUS RUBRA	2"	BB	148.00	1480.00
15 SYRINGA RET. 'SNOWCAP'	2"	BB	150.00	2250.00
10 TAXODIUM DISTICHUM	2"	BB	139.00	1390.00
			\$11,985.00	

03/11/22 4:09 PM

REPRINT

Kankakee Nursery Co.

P.O. Box 288 - Aroma Park, IL 60910

PHONE: (800) 344-7697 FAX: (815) 937-9389

www.kankakeenursery.com * sales@kankakeenursery.com

Page: 1

REPRINT

Order #

86145

Phone: 847-432-0807 Fax: 847-926-8885

Cell: 847-926-1604

BMILLER@CITYHPIL.COM

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

Cont: BEN MILLER

Phone:

Cell: 847-309-6653

BMILLER@CITYHPIL.COM

HIGHLAND PARK IL 60035-1740

PO #

Job Name

YARD=1180 HALF DAY ROAD

HIGHLAND PARK IL 60035

MP

Pricing Notes

Date Ordered Estimated Ship Date

03-11-22 SPR 4/25/2022

VIA

FREIGHT=\$700

Terms

NET 30

Date Shipped

Cust-No

12875

Special Instructions

Sales Tax

TAX EXEMPT

A credit application must be provided before shipment or terms will be CASH or COD.

All invoices due as terms state. A Finance charge of 1.0% per month, 12.0 % annual rate will be added to all past due accounts.

Ordered	Shipped	Description	Part No.	Price
15	N	CELTIS OCCIDENTALIS HACKBERRY	2"BB 217201181	166.00
10	N	GLEDITSIA SKYLINE LOCUST	2"BB 237701181	157.00
10	N	LIQUIDAMBAR WOPPLESDON SWEETGUM	2"BB 240901181	166.00
25	N	MALUS ADAMS CRAB	2"BB 247021181	126.00
10	N	TAXODIUM DISTICHUM BALD CYPRESS	2.5"BB 279401211	171.00
5	N	ULMUS ACCOLADE ELM	2"BB 287011181	144.00
10	N	QUERCUS SWAMP WHITE OAK	#15RP 269753953	94.00
SUB TOTAL				12,240.00
TOTAL				12,240.00

We book all orders with the understanding that same shall be void should injury befall the stock from flood, drought, fire, frost or other causes beyond our control. We exercise the greatest care to keep our varieties pure and true to name and hold ourselves in readiness at all times to replace on proper proof all stock that may prove otherwise or refund the amount paid, but it is mutually agreed between the purchaser and ourselves that we shall not at any time be liable for any amount greater than the original purchase price.

BT: 10

ST: 65

SH: 0

BRT: 0

BRS: 0

CO: 0

BC: 10

All shipments travel at risk of purchaser, FOB, Aroma Park, Illinois. All claims must be filed within 10 days of receipt of shipment.

PRT DATE: 2/24/22 0/00/00 0025233 1

ATTN: BEN MILLER 847-432-0807

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

SPRING 2022

3/11/22

HIGHLAND PARK IL 60035

NET 30 DAYS

LAUREN ARNO

ATTN: BEN MILLER

847-432-0807

CITY OF HIGHLAND PARK

1150 HALF DAY ROAD

HIGHLAND PARK IL 60035

DELIVERED

5 CATALPA SPECIOSA	2"	BB	160.00	800.00
15 GYMNOCLADUS DIOICUS	2"	BB	160.00	2400.00
10 PLATANUS ACER. 'EXCLAMATION'	2 1/2"	BB	165.00	1650.00
5 QUERCUS IMBRICARIA	2"	BB	150.00	750.00
5 QUERCUS MACROCARPA	2 1/2"	BB	175.00	875.00
5 QUERCUS MUEHLENBERGII	2 1/2"	BB	175.00	875.00
5 QUERCUS RUBRA	2 1/2"	BB	220.00	1100.00
30 SYRINGA RET. 'SNOWCAP'	2"	BB	173.00	5190.00
			\$13,640.00	



Design | Construction | Maintenance | Nursery

33553 N. Hunt Club Rd.
Libertyville, IL
60048-9787
T 847.816.7006
F 847.918.1207

1282 Old Skokie Rd., #1F
Highland Park, IL
60035-3019
T 847.432.0120
F 847.918.1207

www.guyscopelliti.com

Bill To:

City of Highland Park
1150 Half Day Road
Highland Park, IL 60035

Invoice

Invoice #: 36349

Invoice Date: 11/27/2019

Due Date: Upon Receipt

Balance Due \$6,164.00

Amount Remitted _____

Invoice Date: 11/27/2019

Invoice #: 36349

Serviced	Hours/Qty	Description	Rate-\$	Amount-\$
6/4/2018		Fall Tree Planting		
	60	1.5" - 2" Trees Installed	54.00	3,240.00
	43	2.5" - 3" Trees Installed	68.00	2,924.00
Total				\$6,164.00
			Payments/Credits	\$0.00

\$6,164.00

We Appreciate Your Business!

Balance Due



Design | Construction | Maintenance | Nursery

33553 N. Hunt Club Rd.
Libertyville, IL
60048-9787
T 847.816.7006
F 847.918.1207

1282 Old Skokie Rd., #1F
Highland Park, IL
60035-3019
T 847.432.0120
F 847.918.1207

www.guyscopelliti.com

Bill To:

City of Highland Park
1150 Half Day Road
Highland Park, IL 60035

Invoice

Invoice #: 39615

Invoice Date: 12/3/2021

Due Date: Upon Receipt

Balance Due \$5,220.00

Amount Remitted _____

Invoice Date: 12/3/2021

Invoice #: 39615

Serviced	Hours/Qty	Description	Rate-\$	Amount-\$
		Fall Tree Planting 2021		
5/3/2019	40	1.5" - 2" Trees Installed	54.00	2,160.00
	45	2.5" - 3" Trees Installed	68.00	3,060.00
Total				\$5,220.00
			Payments/Credits	\$0.00

\$5,220.00

We Appreciate Your Business!

Balance Due



Design | Construction | Maintenance | Nursery

33553 N. Hunt Club Rd.
Libertyville, IL
60048-9787

T 847.816.7006

F 847.918.1207

1282 Old Skokie Rd., #1F
Highland Park, IL
60035-3019

T 847.432.0120

F 847.918.1207

www.guyscopelliti.com

Bill To:

City of Highland Park
1150 Half Day Road
Highland Park, IL 60035

Invoice

Invoice #: 35387

Invoice Date: 6/4/2019

Due Date: Upon Receipt

Balance Due \$11,668.00

Amount Remitted _____

Invoice Date: 6/4/2019

Invoice #: 35387

Serviced	Hours/Qty	Description	Rate-\$	Amount-\$
5/3/2019		Spring Tree Planting Phase 1		
	104	1.5" - 2" Trees Installed	54.00	5,616.00
	89	2.5" - 3" Trees Installed	68.00	6,052.00
Total				\$11,668.00

Payments/Credits \$0.00

\$11,668.00

We Appreciate Your Business!

Balance Due



Design | Construction | Maintenance | Nursery

33553 N. Hunt Club Rd.
Libertyville, IL
60048-9787
T 847.816.7006
F 847.918.1207

1282 Old Skokie Rd., #1F
Highland Park, IL
60035-3019
T 847.432.0120
F 847.918.1207

www.guyscopelliti.com

Bill To:

City of Highland Park
1150 Half Day Road
Highland Park, IL 60035

Invoice

Invoice #: 35498
Invoice Date: 7/1/2019
Due Date: Upon Receipt
Balance Due \$2,226.00

Amount Remitted _____

Invoice Date: 7/1/2019

Invoice #: 35498

Serviced	Hours/Qty	Description	Rate-\$	Amount-\$
6/4/2018		Spring Tree Planting Phase 2		
	11	1.5" - 2" Trees Installed	54.00	594.00
	24	2.5" - 3" Trees Installed	68.00	1,632.00
Total				\$2,226.00

Payments/Credits \$0.00

\$2,226.00

We Appreciate Your Business!

Balance Due



Design | Construction | Maintenance | Nursery

33553 N. Hunt Club Rd.
Libertyville, IL
60048-9787
T 847.816.7006
F 847.918.1207

1282 Old Skokie Rd., #1F
Highland Park, IL
60035-3019
T 847.432.0120
F 847.918.1207

www.guyscopelliti.com

Bill To:

City of Highland Park
1150 Half Day Road
Highland Park, IL 60035

Invoice

Invoice #: 40591

Invoice Date: 7/27/2022

Due Date: Upon Receipt

Balance Due \$8,224.00

Amount Remitted _____

Invoice Date: 7/27/2022

Invoice #: 40591

Serviced	Hours/Qty	Description	Rate-\$	Amount-\$
5/4/2022		Spring Tree Planting 2022		
	112	1.5" - 2" Trees Installed	54.00	6,048.00
	32	2.5" - 3" Trees Installed	68.00	2,176.00
Total				\$8,224.00

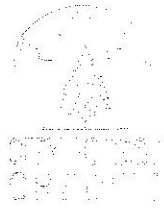
Payments/Credits \$0.00

\$8,224.00

We Appreciate Your Business!

Balance Due

Attestation of Planting Affirmation



City of Highland Park-Urban Forest Rejuvenation
Attestation of Planting Affirmation

I, the undersigned working on behalf of Guy Scopelliti Original Landscaping Co., Inc., attest and confirm that tree planting(s) occurred on the following dates under the project named in the City Forest Credits Registry City of Highland Park-Urban Forest Rejuvenation by the Project Operator, the City of Highland Park, IL.

Trees were planted under this project on the following date(s): June 2019 to June 2022;

The approximate number of trees planted is: 809

Signed on September 13 in 2022, by Joseph A. Scopelliti, President, for Guy Scopelliti Original Landscaping Co., Inc.

Joseph A. Scopelliti
Signature

JOSEPH A SCOPELLITI
Printed Name

847-432-0120
Phone

joe@guy Scopelliti.com
Email

Attestation of No Double Counting and No Net Harm



City of Highland Park-Urban Forest Rejuvenation Attestation of No Double Counting of Credits & No Net Harm

I am the City Forester of the City of Highland Park, IL and make this attestation regarding no double counting of credits and no net harm from this tree planting project, City of Highland Park-Urban Forest Rejuvenation

1. 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.

2. No Double Counting by Applying for Credits from another Registry

City of Highland Park has not and will not seek credits for CO₂ for the project trees or for this project from any other organization or registry issuing credits for CO₂ storage.

3. No Double Counting by Seeking Credits for the Same Trees or Same CO₂ Storage

City of Highland Park has not and will not apply for a project including the same trees as this project nor will it seek credits for CO₂ storage for the project trees or for this project in any other project or more than once.

4. No Net Harm

The trees planted in this project will produce many benefits, as described in our Application and PDD. Like almost all urban trees, the project trees are planted not for harvest but for the benefits they deliver to people, communities, and the environment as living trees in a metropolitan area.

The project trees will produce many benefits and will not cause net harm. Specifically, they will not:

- Displace native or indigenous populations
- Deprive any communities of food sources
- Degrade a landscape or cause environmental damage

Signed on August 31 in 2022, by Ben Miller-City Forester, for the City of Highland Park, IL.

Signature

847.926.1179

Phone

bmilller@cityhpil.com

Email

Attestation of Additionality



City of Highland Park-Urban Forest Rejuvenation Attestation of Additionality

I am the Ben Miller (City Forester) of the City of Highland Park, IL and make this attestation regarding additionality from this tree planting project, City of Highland Park-Urban Forest Rejuvenation.

- 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.
- The Project did not plant trees on sites that were forested and then cleared of trees within the prior ten years (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 Implementation Agreement for Project Duration
 - The City of Highland Park, IL 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 our organization makes to non-carbon project tree plantings.

Signed on August 31 in 2022, by Ben Miller-City Forester, for the City of Highland Park, IL.

Signature

Benjamin R. Miller

Printed Name

847.926.1179

Phone

bmiller@cityhpil.com

Email

Carbon Quantification Initial Credit Tool

Directions

1) In Table 1 record the number of sites planted for each tree

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
<i>Ulmus 'accolade'</i>	Accolade elm	BDL	60
<i>Alnus species</i>	alder	BDM	
<i>Tilia americana</i>	American basswood	BDL	
<i>Castanea dentata</i>	American chestnut	BDL	
<i>Ulmus americana</i>	American elm	BDL	
<i>Ilex opaca</i>	American holly	BES	
<i>Carpinus caroliniana</i>	American hornbeam	BDM	8
<i>Cotinus obovatus</i>	American smoketree	BDS	5
<i>Platanus occidentalis</i>	American sycamore	BDL	
<i>Phellodendron amurense</i>	Amur corktree	BDM	4
<i>Acer ginnala</i>	Amur maple	BDS	
<i>Malus species</i>	apple	BDS	
<i>Fraxinus species</i>	ash	BDM	
<i>Pinus nigra</i>	Austrian pine	CEM	
<i>Taxodium distichum</i>	bald cypress	BDL	23
<i>Tilia species</i>	basswood	BDL	
<i>Betula species</i>	birch	BDM	
<i>Fraxinus nigra</i>	black ash	BDM	
<i>Prunus serotina</i>	black cherry	BDL	
<i>Robinia pseudoacacia</i>	black locust	BDL	
<i>Acer nigrum</i>	black maple	BDL	
<i>Populus nigra</i>	black poplar	BDL	
<i>Picea mariana</i>	black spruce	CEM	
<i>Juglans nigra</i>	black walnut	BDL	
<i>Nyssa sylvatica</i>	blackgum	BDM	
<i>Picea pungens</i>	blue spruce	CEM	
<i>Pinus contorta</i>	Bolander beach pine	CES	
<i>Acer negundo</i>	boxelder	BDM	
<i>Broadleaf Deciduous Large</i>	broadleaf deciduous large	BDL	
<i>Broadleaf Deciduous Medium</i>	broadleaf deciduous med	BDM	
<i>Broadleaf Deciduous Small</i>	broadleaf deciduous sma	BDS	
<i>Broadleaf Evergreen Large</i>	broadleaf evergreen large	BEL	
<i>Broadleaf Evergreen Medium</i>	broadleaf evergreen med	BEM	
<i>Broadleaf Evergreen Small</i>	broadleaf evergreen sma	BES	
<i>Rhamnus species</i>	buckthorn	BDS	
<i>Quercus macrocarpa</i>	bur oak	BDL	7

<i>Pyrus calleryana</i>	Callery pear	BDM	
<i>Catalpa species</i>	catalpa	BDL	43
<i>Prunus cerasifera</i>	cherry plum	BDS	
<i>Ulmus parvifolia</i>	Chinese elm	BDL	
<i>Quercus muelenbergii</i>	Chinkapin oak	BDL	11
<i>Prunus virginiana</i>	common chokecherry	BDS	
<i>Conifer Evergreen Large</i>	conifer evergreen large	CEL	
<i>Conifer Evergreen Medium</i>	conifer evergreen medium	CEM	
<i>Conifer Evergreen Small</i>	conifer evergreen small	CES	
<i>Cornus mas</i>	Cornelian cherry dogwood	BDS	7
<i>Populus species</i>	cottonwood	BDL	
<i>Malus spp.</i>	crabapple, flowering	BDS	78
<i>Metasequoia Glyptostroboides</i>	Dawn redwood	BDL	14
<i>Cornus species</i>	dogwood	BDS	1
<i>Populus deltoides</i>	eastern cottonwood	BDL	
<i>Tsuga canadensis</i>	eastern hemlock	CEL	
<i>Ostrya virginiana</i>	eastern hophornbeam	BDM	15
<i>Juniperus virginiana</i>	eastern red cedar	CEM	
<i>Cercis canadensis</i>	eastern redbud	BDS	31
<i>Pinus strobus</i>	eastern white pine	CEL	
<i>Ulmus species</i>	elm	BDL	1
<i>Ulmus x</i>	elm, hybrid	BDL	
<i>Ulmus thomasi</i>	elm, rock	BDL	
<i>Cornus florida</i>	flowering dogwood	BDS	
<i>Ginkgo biloba</i>	ginkgo	BDM	2
<i>Fraxinus pennsylvanica</i>	green ash	BDL	
<i>Crataegus crusgalli</i>	hawthorn, cockspur	BDS	
<i>Crataegus viridis</i>	hawthorn, green	BDM	
<i>Crataegus spp.</i>	hawthorn, spp.	BDS	8
<i>Carya species</i>	hickory	BDL	
<i>Ilex species</i>	holly	BES	
<i>Gleditsia triacanthos</i>	honeylocust	BDM	43
<i>Gleditsia triacanthos inermis</i>	honeylocust, thornless	BDL	
<i>Acer palmatum</i>	Japanese maple	BDS	
<i>Syringa reticulata</i>	Japanese tree lilac	BDS	114
<i>Zelkova serrata</i>	Japanese zelkova	BDL	1
<i>Juniperus species</i>	juniper	CEM	
<i>Cercidiphyllum japonicum</i>	katsuratree	BDM	13
<i>Gymnocladus dioica</i>	Kentucky coffeetree	BDL	32
<i>Prunus serrulata</i>	Kwanzan cherry	BDS	
<i>Syringa species</i>	lilac	BDS	
<i>Tilia cordata</i>	littleleaf linden	BDM	
<i>magnolia spp</i>	magnolia spp	BDS	6
<i>Acer species</i>	maple	BDL	
<i>Albizia julibrissin</i>	mimosa	BDS	
<i>Sorbus species</i>	mountain ash	BDS	

<i>Morus species</i>	mulberry	BDM	
<i>Ulmus 'new horizon'</i>	New Horizon elm	BDL	10
<i>Catalpa speciosa</i>	northern catalpa	BDL	
<i>Celtis occidentalis</i>	northern hackberry	BDL	34
<i>Quercus ellipsoidalis</i>	northern pin oak	BDL	
<i>Quercus rubra</i>	northern red oak	BDL	11
<i>Thuja occidentalis</i>	northern white cedar	CEL	
<i>Acer platanoides</i>	Norway maple	BDL	
<i>Picea abies</i>	Norway spruce	CEL	
<i>Quercus species</i>	oak	BDL	
<i>Aesculus glabra</i>	Ohio buckeye	BDL	20
<i>Maclura pomifera</i>	Osage orange	BDS	2
<i>Styphnolobium japonica</i>	Pagoda tree	BDL	1
<i>Betula papyrifera</i>	paper birch	BDL	
<i>Pyrus species</i>	pear	BDM	
<i>Parrotia persica</i>	persian ironwood	BDS	
<i>Quercus palustris</i>	pin oak	BDL	
<i>Platanus x acerifolia</i>	planetree, London	BDL	36
<i>Prunus species</i>	plum	BDS	
<i>Pinus ponderosa</i>	ponderosa pine	CEL	
<i>Catalpa erubescens</i>	purple catalpa	BDL	1
<i>Salix discolor</i>	pussy willow	BDS	
<i>Populus tremuloides</i>	quaking aspen	BDL	
<i>Aesculus x carnea 'Ft. McNair'</i>	red horsechestnut	BDM	18
<i>Acer rubrum</i>	red maple	BDL	
<i>Pinus resinosa</i>	red pine	CEL	
<i>Betula nigra</i>	river birch	BDM	5
<i>Hibiscus syriacus</i>	rose-of-sharon	BDS	
<i>Quercus coccinea</i>	scarlet oak	BDL	
<i>Pinus sylvestris</i>	Scotch pine	CEM	
<i>Amelanchier laevis</i>	serviceberry, Allegheny	BDM	
<i>Amelanchier canadensis</i>	serviceberry, shadblow	BDS	
<i>Amelanchier spp.</i>	serviceberry, spp.	BDS	34
<i>Quercus imbricaria</i>	Shingle oak	BDL	4
<i>Ulmus pumila</i>	Siberian elm	BDM	
<i>Acer saccharinum</i>	silver maple	BDL	
<i>Magnolia grandiflora</i>	southern magnolia	BEM	
<i>Picea species</i>	spruce	CEL	
<i>Acer saccharum</i>	sugar maple	BDL	
<i>Rhus species</i>	sumac	BDS	2
<i>Quercus bicolor</i>	swamp white oak	BDL	51
<i>Magnolia virginiana</i>	sweetbay	BEM	
<i>Liquidambar styraciflua</i>	sweetgum	BDL	24
<i>Liriodendron tulipifera</i>	tulip tree	BDL	22
<i>Corylus colurna</i>	Turkish filbert	BDL	6
<i>Pinus virginiana</i>	Virginia pine	CEM	
<i>Quercus nigra</i>	water oak	BEL	

<i>Fraxinus americana</i>	white ash	BDL	
<i>Morus alba</i>	white mulberry	BDM	
<i>Quercus alba</i>	white oak	BDL	1
<i>Salix species</i>	willow	BDL	
<i>Cladrastis kentukea</i>	yellowwood	BDM	

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Table 2. Summary of Planting Sites

Tree-Type	Tree-Type Abbreviation	No. Sites Planted
Brdlf Decid Large (>50 ft)	BDL	413
Brdlf Decid Med (30-50 ft)	BDM	108
Brdlf Decid Small (<30 ft)	BDS	288
Brdlf Evgrn Large (>50 ft)	BEL	0
Brdlf Evgrn Med (30-50 ft)	BEM	0
Brdlf Evgrn Small (<30 ft)	BES	0
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		809

	A	B	C	D	E	F	G	H	I	J	K	L
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2												
3		Directions										
4		Using the information you provide and background data, the tool calculates the amount of Credits that could be issued after planting (10%), at Year 4 (30%), at Year 6 (30%), at Year 14 (10%), and at Year 26 (20%). A mortality deductions (% loss) is applied to account for anticipated tree losses (Cell D6). A 5% Reversal Pool Account 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 (Initial Crediting). A different tool is used for credit issuance in Years 4, 6, 14, and 26. The tool in those years requires calculation of a sample and collection of data on tree status in the sample sites.										
5												
6		Mortality Deduction (%):		20%								
7		Table 3. Credits are based on 10%, 30%, 30%, 10%, and 20% after planting, at Year 4, at Year 6, at Year 14, and at Year 26 after planting, respectively, of the projected CO₂ stored by live trees 26-years after planting. These values account for anticipated tree losses and the 5% Reversal Pool Account deduction.										
8												
9								10%	30%	30%	10%	20%
10			No. Sites Planted	No. Live Trees	Mortality Deduction (%)	26-yr CO ₂ stored (kg/tree)	Tot. 26-yr CO ₂ stored w/ losses and 5% deduction (t)	10% CO ₂ (t)	30% CO ₂ (t)	30% CO ₂ (t)	10% CO ₂ (t)	20% CO ₂ (t)
11		BDL	413	330	0.20	3,978.85	1248.9	124.89	374.66	374.66	124.89	249.78
12		BDM	108	86	0.20	2,451.33	201.2	20.12	60.36	60.36	20.12	40.24
13		BDS	288	230	0.20	700.27	153.3	15.33	45.98	45.98	15.33	30.66
14		BEL	0	0	0.20	0.00	0.0	0.00	0.00	0.00	0.00	0.00
15		BEM	0	0	0.20	0.00	0.0	0.00	0.00	0.00	0.00	0.00
16		BES	0	0	0.20	0.00	0.0	0.00	0.00	0.00	0.00	0.00
17		CEL	0	0	0.20	0.00	0.0	0.00	0.00	0.00	0.00	0.00
18		CEM	0	0	0.20	0.00	0.0	0.00	0.00	0.00	0.00	0.00
19		CES	0	0	0.20	0.00	0.0	0.00	0.00	0.00	0.00	0.00
20			809	647	0.20	7,130.5	1603.4	160.34	481.01	481.01	160.34	320.67

	A	B	C	D	E	F	G	H
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2								
3		In Table 4 the tool infers the amount of CO ₂ stored after 26 years from the sample to the population of live trees. Values in column H account for anticipated tree losses and the 5% Reversal Pool Account deduction.						
4								
5		Table 4. Grand Total CO₂ Stored after 26 years (all live trees, includes tree losses and Reversal Pool Account deduction)						
6		Tree-Type	No. Sites Planted	Mortality Deduction (%)	Total Live Trees After Mortality	26-yr CO₂ stored (kg/tree)	CO₂ Tot. - No Deductions (t)	Grand Total CO₂ w/ Deductions (t)
7		Brdlf Decid Large (>50 ft)	413	0.20	330	3,978.85	1,643.3	1,248.9
8		Brdlf Decid Med (30-50 ft)	108	0.20	86	2,451.33	264.7	201.2
9		Brdlf Decid Small (<30 ft)	288	0.20	230	700.27	201.7	153.3
10		Brdlf Evgrn Large (>50 ft)	0	0.20	0	0.00	0.0	0.0
11		Brdlf Evgrn Med (30-50 ft)	0	0.20	0	0.00	0.0	0.0
12		Brdlf Evgrn Small (<30 ft)	0	0.20	0	0.00	0.0	0.0
13		Conif Evgrn Large (>50 ft)	0	0.20	0	0.00	0.0	0.0
14		Conif Evgrn Med (30-50 ft)	0	0.20	0	0.00	0.0	0.0
15		Conif Evgrn Small (<30 ft)	0	0.20	0	0.00	0.0	0.0
16			809		647	7130	2,109.7	1,603.4

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2									
3		Directions							
4		In Table 5, enter the low and high price of CO ₂ in \$ per tonne (t).							
5									
6		This table incorporates error estimates of ±15% to the high and low estimates of the total CO ₂ (t) stored by the live tree population after 26 years. For planning purposes only, it calculates dollar values.							
7									
8		Table 5. CO₂ value			Table 6. Summary of CO₂ stored after 26 years (all live trees, includes tree losses)				
9			CO₂ \$ per tonne		Tree-Type	Total CO₂ (t) at 26 years	Low \$ value	High \$ value	
10		Low	\$30.00		Brdlf Decid	1603.4	\$48,100.86	\$54,514.30	
11		High	\$34.00		Brdlf Evgrn	0.0	\$0.00	\$0.00	
12					Conif Evgrn	0.0	\$0.00	\$0.00	
13					Total	1603.4	\$48,100.86	\$54,514.30	
14						CO₂ (t)	Total \$	Total \$	
15					Grand Total CO₂ (t) at 26 years:	1603.4	\$48,100.86	\$54,514.30	
16					High Est. with Error:	1843.9	\$55,315.98	\$62,691.45	
17					Low Est. with Error:	1362.9	\$40,885.73	\$40,885.73	
18					± 15% error = ± 10% formulaic ± 3% sampling				
19					± 2% measurement				

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2									
3		Using the information you provide and background data, the tool provides estimates of co-benefits after 25 years.							
4									
5		Table 7. Co-Benefits <u>per year</u> after 25 years (all live trees, includes tree losses)							
6		Ecosystem Services	Resource Units Totals	Total \$					
7		Rainfall Interception (m3/yr)	3,931.70	\$28,147.30					
8		Air Quality (t/yr)							
9		O3	0.0532	\$177.52					
10		NOx	0.0086	\$28.78					
11		PM10	0.0279	\$79.30					
12		Net VOCs	0.0353	\$292.16					
13		Air Quality Total	0.1250	\$577.76					
14		Energy (kWh/yr & kBtu/yr)							
15		Cooling - Electricity	124,341.50	\$9,437.52					
16		Heating - Natural Gas	1,809,643.62	\$17,616.40					
17		Energy Total (\$/yr)		\$27,053.92					
18		Grand Total (\$/yr)		\$55,778.97					
19									
20				\$1,394,474.32					

Tree Planting Data

	Common Name	Scientific Name	Planting Date	Address	Street	Location Description	Latitude	Longitude
1	Magnolia	Magnolia sp.	Planting Spring 2019	1535	ARBOR AV	30' N OF DR	42.18066842	-87.82458749
2	Sweetgum	Liquidambar styraciflua	Planting Spring 2019	1580	BERKELEY RD	50' W OF DR	42.18146984	-87.82487018
3	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2022	1682	BERKELEY RD	68' S OF BERKELEY ON CAVELL	42.18150317	-87.82800551
4	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	1771	CAVELL AV	29' S OF DR	42.18479988	-87.8273118
5	Ginkgo	Ginkgo biloba	Planting Fall 2019	1560	CLOVERDALE AV	40' N of Dr	42.18101148	-87.83188706
6	Catalpa, Northern	Catalpa speciosa	Planting Fall 2021	1849	CLOVERDALE AV	20' N OF DR	42.18622563	-87.83121206
7	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	1874	CLOVERDALE AV	10' N OF DR	42.18662643	-87.8319817
8	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	1985	CLOVERDALE AV	40' E OF CLOVERDALE ON PARK AV W 130' W OF CLOVERDALE ON PARK AV W - ADJACENT TO UTILITY POLE	42.18865841	-87.83135123
9	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1986	CLOVERDALE AV		42.18874329	-87.83192263
10	Honey Locust	Gleditsia triacanthos	Planting Fall 2019	1816	EASTWOOD AV	15' N OF S DR	42.18561701	-87.83047832
11	Catalpa, Northern	Catalpa speciosa	Planting Spring 2022	1877	EASTWOOD AV	50' S OF EASTWOOD	42.18677584	-87.82999095
12	Hackberry	Celtis occidentalis	Planting Spring 2022	1877	EASTWOOD AV	70' S OF EASTWOOD ON FRIAR TRUCK	42.18677421	-87.82999182
13	London Planetree	Plantanus x Acerifolia	Planting Spring 2022	1877	EASTWOOD AV	12' N OF DR	42.18677366	-87.82999182
14	Buckeye	Aesculus glabra	Planting Spring 2020	2463	HIGHMOOR RD	50' S OF DR AT 2487 HIGHMOOR	42.19759833	-87.83488985
15	Catalpa, Northern	Catalpa speciosa	Planting Fall 2021	1953	KEATS CT	15' S OF DR	42.19557299	-87.84525464
16	Crabapple	Malus sp.	Planting Spring 2022	2735	KELLY LN	WEST SIDE OF ISLAND	42.20327211	-87.84976405
17	Crabapple	Malus sp.	Planting Spring 2022	2735	KELLY LN	NORTH SIDE OF ISLAND	42.20327183	-87.84976405
18	London Planetree	Plantanus x Acerifolia	Planting Spring 2019	2166	KIPLING LN	40' E of Dr	42.19206954	-87.84415037
19	Buckeye	Aesculus glabra	Planting Spring 2019	2166	KIPLING LN	30' W of Dr	42.19206954	-87.84417183
20	Buckeye	Aesculus glabra	Planting Spring 2019	2166	KIPLING LN	60' W of Dr	42.19206159	-87.8441611
21	Oak, Bur	Quercus macrocarpa	Planting Spring 2019	2166	KIPLING LN	10' S of Parking Pad on Kipling Ln	42.19205983	-87.84415842
22	Elm, Morton	Ulmus "Accolade"	Planting Spring 2020	1562	LANCELOT AV	40' S OF LANCELOT ON MCCRAREN RD	42.18370558	-87.82592732
23	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	2626	MAVOR LN	10' S OF N DR	42.20045248	-87.84126664
24	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	2626	MAVOR LN	35' S OF N DR	42.20045138	-87.84126665
25	Dawn Redwood	Metasequoia Glyptostrobooides	Planting Spring 2019	2666	MAVOR LN	5' N OF N DR	42.20125488	-87.84125571
26	London Planetree	Plantanus x Acerifolia	Planting Spring 2019	2666	MAVOR LN	35' N OF S DR	42.20125405	-87.84125571
27	Buckeye	Aesculus glabra	Planting Spring 2019	2666	MAVOR LN	5' S OF N DR	42.20125378	-87.84125571
28	Tuliptree	Liriodendron tulipifera	Planting Spring 2019	2707	MAVOR LN	75' N OF S DR	42.20174632	-87.84038241
29	Sweetgum	Liquidambar styraciflua	Planting Spring 2019	2707	MAVOR LN	50' N OF S DR	42.2017455	-87.84038242
30	Buckeye	Aesculus glabra	Planting Spring 2019	2744	MAVOR LN	5' S OF N DR	42.20265444	-87.84002698
31	Hackberry	Celtis occidentalis	Planting Spring 2020	1704	MCCRAREN RD	20' S OF DR	42.18354187	-87.82581009
32	Oak, Swamp White	Quercus bicolor	Planting Spring 2020	1715	MCCRAREN RD	5' N OF DR	42.18386694	-87.82514531
33	Baldcypress	Taxodium distichum	Planting Spring 2019	1670	NORTHLAND AV	20' W OF DR	42.17945732	-87.82605245
34	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2019	1677	NORTHLAND AV	40' W of dr	42.18007276	-87.82631314
35	Hackberry	Celtis occidentalis	Planting Fall 2019	1745	NORTHLAND AV	5' E OF DR	42.18003628	-87.82828877
36	Elm, Morton Elm	Ulmus "Accolade"	Planting Fall 2021	1822	NORTHLAND AV	30' W OF DR	42.17964203	-87.83047529
37	Elm, Morton Elm	Ulmus "Accolade"	Planting Fall 2021	1844	NORTHLAND AV	20' E OF DR	42.17969633	-87.83087918

38	Crabapple	Malus sp.	Planting Fall 2021	1844	NORTHLAND AV	20' E OF DR	42.17968332	-87.83099878
39	Elm, Morton Elm	Ulmus "Accolade"	Planting Fall 2021	1844	NORTHLAND AV	20' E OF DR	42.17968222	-87.83099878
40	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	1975	NORTHLAND AV	48' E OF DR	42.17895875	-87.83412371
41	Elm, Accolade	Ulmus "Accolade"	Planting Spring 2020	1450	RIDGE RD	10' S OF 1456 Ridge Rd MAILBOX	42.17878752	-87.83500164
42	Hackberry	Celtis occidentalis	Planting Spring 2022	2380	RIDGE RD	15' N OF S DR	42.19583928	-87.84250195
43	Crabapple	Malus sp.	Planting Spring 2022	2747	RIDGE RD	60' S OF DR	42.20226264	-87.84638795
44	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	2747	RIDGE RD	30' S OF DR	42.20240172	-87.84630212
45	Hackberry	Celtis occidentalis	Planting Fall 2019	1620	RYDERS LN	50' N OF DR	42.18226009	-87.84297308
46	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	1640	RYDERS LN	10' S OF DR	42.18251672	-87.84298482
47	Baldcypress	Taxodium distichum	Planting Spring 2019	1640	RYDERS LN	30' S OF DR	42.18252069	-87.84297946
48	Crabapple	Malus sp.	Planting Spring 2022	1756	RYDERS LN	Private Rd. Between driveways	42.18478674	-87.84411567
49	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	1561	SHERWOOD RD	15' S OF DR	42.18097101	-87.828464
50	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	1619	SHERWOOD RD	80' E OF SHERWOOD ON BERKELEY	42.18204058	-87.82863312
51	Crabapple	Malus sp.	Planting Fall 2021	1619	SHERWOOD RD	60' E OF SHERWOOD ON BERKELEY	42.1820414	-87.82863312
52	Serviceberry	Amelanchier canadensis	Planting Fall 2019	1770	SPRUCE AV	20' N of S DR	42.18482777	-87.83686829
53	Crabapple	Malus sp.	Planting Fall 2019	1850	SPRUCE AV	15' S OF DR	42.18626624	-87.83663804
54	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1887	SPRUCE AV	60' S OF DR	42.18693312	-87.83567704
55	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1946	SPRUCE AV	25' S OF DR	42.18800632	-87.83670322
56	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	1770	SUNNYSIDE AV	40' S OF DR	42.18492927	-87.83473135
57	Oak, Bur	Quercus macrocarpa	Planting Spring 2022	1938	SUNNYSIDE AV	10' N OF DR	42.18792663	-87.83413665
58	Elm, Morton Elm	Ulmus "Accolade"	Planting Fall 2021	2220	TENNYSON LN	15' N OF DR	42.19342082	-87.84998258
59	Magnolia	Magnolia sp.	Planting Spring 2019	1964	YORK LN	10' W of Dr (In planting bed)	42.18034674	-87.83454009
60	Elm, Accolade	Ulmus "Accolade"	Planting Fall 2019	1760	BALSAM RD	60' E OF DR	42.15807081	-87.81246156
61	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	214	BARBERRY RD	15' N OF DR	42.15647551	-87.80852477
62	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	214	BARBERRY RD	20' S OF DR	42.15642838	-87.80830606
63	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	285	BARBERRY RD	20' N OF DR	42.15784529	-87.80813651
64	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	291	BARBERRY RD	20' S OF DR	42.15797587	-87.80825825
65	Elm, Accolade	Ulmus "Accolade"	Planting Spring 2021	545	BARBERRY RD	5' N OF DR	42.16269126	-87.81098058
66	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	233	BRIAR LN	15' S OF DR	42.15695074	-87.81633068
67	Hackberry	Celtis occidentalis	Planting Spring 2022	1149	BRIARGATE DR	On corner of property	42.17360721	-87.83125715
68	Crabapple	Malus sp.	Planting Fall 2019	1999	CASTLEWOOD RD	25' W OF DR	42.1738658	-87.83039803
69	Elm, Accolade	Ulmus "Accolade"	Planting Spring 2020	2002	CASTLEWOOD RD	10' W OF DR	42.17327661	-87.83060242
70	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	1173	CAVELL AV	25' S OF DR	42.17399954	-87.82580759
71	River Birch	Betula Nigra	Planting Spring 2021	1222	CAVELL AV	5' S OF DR	42.17487273	-87.82671362
72	Redbud	Cercis canadensis	Planting Spring 2021	1222	CAVELL AV	25' S OF DR	42.174873	-87.82671362
73	Dawn Redwood	Metasequoia Glyptostrobooides	Planting Spring 2019	1236	CAVELL AV	10' N OF DR	42.17518484	-87.82669517
74	Honey Locust	Gleditsia triacanthos	Planting Fall 2019	1274	CAVELL AV	10' N OF DR	42.17597198	-87.8266591
75	Baldcypress	Taxodium distichum	Planting Spring 2021	1277	CAVELL AV	30' N OF DR	42.17587408	-87.82600916
76	Elm, Accolade	Ulmus "Accolade"	Planting Fall 2019	1288	CAVELL AV	30' S OF DR	42.17609747	-87.8267092
77	Buckeye	Aesculus glabra	Planting Spring 2020	1429	CAVELL AV	10' N OF DR	42.17869565	-87.82588382
78	Redbud	Cercis canadensis	Planting Spring 2021	1625	CLAVEY RD	45' S OF DR ON BARBERRY	42.16023579	-87.8095462

79	Cornelian Cherry	Cornus mas	Planting Spring 2019	1659	CLAVEY RD	10' E OF DR	42.1602602	-87.8110507
80	Crabapple	Malus sp.	Planting Spring 2021	1695	CLAVEY RD	20' E OF DR	42.16014272	-87.81199995
81	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	1791	CLAVEY RD	110' W OF ELLRIDGE CIR	42.16017734	-87.81473396
82	Hophornbeam	Ostrya virginiana	Planting Spring 2021	2040	CLAVEY RD	30' W OF DR	42.15918682	-87.82182762
83	Crabapple	Malus sp.	Planting Spring 2020	2098	CLAVEY RD	10' S OF DR	42.16043123	-87.82280697
84	Sweetgum	Liquidambar styraciflua	Planting Spring 2022	1016	DEVONSHIRE CT	7' E OF DR	42.17098919	-87.82032227
85	Sweetgum	Liquidambar styraciflua	Planting Spring 2022	1024	DEVONSHIRE CT	15' W OF DR	42.17100902	-87.82070871
86	Honey Locust	Gleditsia triacanthos	Planting Fall 2019	1034	DEVONSHIRE CT	15' E OF DR	42.17100273	-87.82105256
87	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	1245	EASTWOOD AV	15' N OF DR	42.17530062	-87.82860885
88	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	1360	EASTWOOD AV	60' S OF DR	42.177346	-87.82924463
89	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1476	EASTWOOD AV	10' N OF DR	42.17940588	-87.8302726
90	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	813	EDGEWOOD CT	20' S of Dr	42.16743773	-87.82186737
91	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1650	EDGEWOOD RD	50' S OF Edgewood on Sumac	42.16690638	-87.81608461
92	Dawn Redwood	Metasequoia Glyptostrobooides	Planting Spring 2019	1660	EDGEWOOD RD	20' E OF DR	42.16689835	-87.81653906
93	Oak, Red	Quercus rubra	Planting Spring 2022	1775	EDGEWOOD RD	140' W OF DR	42.16730638	-87.81944612
94	London Planetree	Plantanus x Acerifolia	Planting Spring 2022	1775	EDGEWOOD RD	110' W OF DR	42.16730439	-87.81944478
95	London Planetree	Plantanus x Acerifolia	Planting Spring 2022	1775	EDGEWOOD RD	110' W OF DR	42.16730439	-87.81944478
96	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	1775	EDGEWOOD RD	80' W OF DR	42.16730538	-87.81944612
97	London Planetree	Plantanus x Acerifolia	Planting Spring 2022	1775	EDGEWOOD RD	110' W OF DR	42.16730439	-87.81944478
98	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	1775	EDGEWOOD RD	50' W OF DR	42.16730737	-87.81944612
99	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1795	EDGEWOOD RD	25' E OF DR	42.16743369	-87.81990453
100	Cornelian Cherry	Cornus mas	Planting Spring 2019	415	ELLRIDGE CI	20' S of Dr	42.16016079	-87.8141163
101	Hophornbeam	Ostrya virginiana	Planting Spring 2021	1231	FERNDAL AV	10' N OF DR	42.1750078	-87.82473057
102	Elm, Accolade	Ulmus "Accolade"	Planting Fall 2019	1271	FERNDAL AV	10' N OF DR	42.17583247	-87.82474407
103	Oak, Red	Quercus rubra	Planting Spring 2022	1378	FERNDAL AV	15' S OF DR	42.17777913	-87.82561181
104	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1934	GARLAND AV	25' N OF DR AT 1398 SUNNYSIDE	42.17804077	-87.83203098
105	Serviceberry	Amelanchier canadensis	Planting Spring 2019	1575	GROVE AV	15' E OF DR	42.1704432	-87.81628186
106	London Planetree	Plantanus x Acerifolia	Planting Spring 2021	1579	GROVE AV	20ft e of dr	42.17040814	-87.81650802
107	Redbud	Cercis canadensis	Planting Spring 2019	1620	GROVE AV	20' E of Dr	42.16987776	-87.81757605
108	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2019	1640	GROVE AV	50' W of Dr	42.16985844	-87.81817083
109	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	10	HEMLOCK LN	ISLAND AT END OF HEMLOCK - SOUTHWEST TREE	42.15289295	-87.81317188
110	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	110	HEMLOCK LN	15' N OF N DR	42.1545866	-87.8131606
111	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	110	HEMLOCK LN	15' S OF S DR	42.15458687	-87.81316059
112	Elm, Accolade	Ulmus "Accolade"	Planting Spring 2021	1041	HILLCREST AV	55' S OF DR	42.17184912	-87.82803866
113	London Planetree	Plantanus x Acerifolia	Planting Spring 2021	1050	HILLCREST AV	30' S OF WALK	42.1716605	-87.82858409
114	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1068	HILLCREST AV	20' N OF S DR	42.17195329	-87.82887946
115	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1075	HILLCREST AV	10' S OF N DR	42.17234169	-87.82822361
116	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1075	HILLCREST AV	10' N OF S DR	42.17234196	-87.82822361
117	Elm, Morton Elm	Ulmus "Accolade"	Planting Fall 2021	1106	HILLCREST AV	60' S OF DR	42.17273742	-87.82955135
118	Hornbeam	Carpinus caroliniana	Planting Spring 2019	1830	LAWRENCE LN	45' E OF DR	42.15464583	-87.8124323
119	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	1871	LAWRENCE LN	IN ISLAND, EAST TREE	42.15529374	-87.81338623
120	Honey Locust	Gleditsia triacanthos	Planting Fall 2021	2082	MAGNOLIA LN	20' W OF DR	42.15458502	-87.819313

121	London Planetree	Plantanus x Acerifolia	Planting Fall 2021	1661	MIDLAND AV	5' W OF DR	42.17825055	-87.8245797
122	Elm, Accolade	Ulmus "Accolade"	Planting Spring 2020	1685	MIDLAND AV	70' E OF DR	42.1782429	-87.82543218
123	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	1685	MIDLAND AV	30' N OF MIDLAND ON FERNDALE	42.1782442	-87.82542258
124	Crabapple	Malus sp.	Planting Fall 2021	1710	MIDLAND AV	30' E OF DR	42.177893	-87.8259376
125	Baldcypress	Taxodium distichum	Planting Spring 2021	1710	MIDLAND AV	10' E OF DR	42.17789333	-87.82594317
126	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1740	MIDLAND AV	40' E OF DR	42.17786753	-87.82671324
127	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	1644	OLD BRIAR RD	30' E OF WALK TO FRONT DOOR	42.15827982	-87.80955124
128	Crabapple	Malus sp.	Planting Fall 2021	1644	OLD BRIAR RD	5' W of Front Walk on Old Briar	42.15828065	-87.80955123
129	Hophornbeam	Ostrya virginiana	Planting Spring 2021	1701	OLD BRIAR RD	60' E OF DR	42.15798994	-87.81085667
130	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	1725	OLD BRIAR RD	10' S OF DR ON RIDGE	42.15775047	-87.81135241
131	London Planetree	Platanus x Acerifolia	Planting Spring 2019	1765	OLD BRIAR RD	10' S of Dr ON RIDGE RD	42.15750279	-87.81215071
132	Cornelian Cherry	Cornus mas	Planting Spring 2019	1801	OLD BRIAR RD	120' N OF OLD BRIAR ON POPLAR RD	42.1571631	-87.81289811
133	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	1860	OLD BRIAR RD	10' E OF DR	42.15592674	-87.81401022
134	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	1915	OLD BRIAR RD	60' W OF DR	42.15664325	-87.81558358
135	River Birch	Betula nigra	Planting Spring 2021	875	PICCADILLY RD	10' E of Front Walk	42.16877487	-87.82510544
136	River Birch	Betula nigra	Planting Spring 2021	875	PICCADILLY RD	10' W of Front walk	42.16877515	-87.82510544
137	Hawthorn	Cretaeus sp.	Planting Spring 2020	876	PICCADILLY RD	20' N of Dr	42.16845167	-87.82549972
138	Crabapple	Malus sp.	Planting Spring 2020	876	PICCADILLY RD	5' N of Dr	42.16845167	-87.82549838
139	Buckeye	Aesculus glabra	Planting Spring 2020	111	RED OAK LN	5' S OF N DR	42.15459177	-87.81828677
140	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2019	117	RED OAK LN	5' S OF S DR	42.15492935	-87.81832866
141	London Planetree	Platanus x Acerifolia	Planting Fall 2021	180	RED OAK LN	100' S OF OLD BRIAR RD	42.15591002	-87.8190049
142	Elm, New Horizon	Ulm	Planting Spring 2021	243	RED OAK LN	10' S OF DR	42.15710257	-87.81822806
143	Buckeye	Aesculus glabra	Planting Spring 2020	255	RED OAK LN	20' S OF N DR	42.15737063	-87.81826701
144	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	275	RED OAK LN	20' N OF DR	42.15765063	-87.81824279
145	Hornbeam	Ostrya virginiana	Planting Spring 2019	290	RED OAK LN	20' E of Dr on Windy Hill Ln	42.15789261	-87.81899653
146	Oak, Red	Quercus rubra	Planting Spring 2022	475	RED OAK LN	At corner of Rosemary & Red Oak Ln	42.16142308	-87.81820494
147	Oak, Red	Quercus rubra	Planting Spring 2022	475	RED OAK LN	25' N OF DR	42.16141722	-87.81819933
148	Buckeye	Aesculus glabra	Planting Spring 2019	490	RED OAK LN	25' E OF DR ON BURR OAKS	42.16140511	-87.81890132
149	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	655	RED OAK TR	In Red Oak Tr Island	42.16461828	-87.8182608
150	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	655	RED OAK TR	In Red Oak Tr Island	42.16453265	-87.8181845
151	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	655	RED OAK TR	In Red Oak Tr Island	42.16461828	-87.8182608
152	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1796	RICHFIELD AV	15' E OF DR	42.1741699	-87.82563124
153	Sweetgum	Liquidambar styraciflua	Planting Spring 2022	1834	RICHFIELD AV	10' S OF WALK ON CAVELL AV	42.17429587	-87.82654995
154	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	110	RIDGE RD	15' S OF DR	42.1545212	-87.81049039
155	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	110	RIDGE RD	15' N OF DR	42.1545186	-87.81048888
156	Baldcypress	Taxodium distichum	Planting Spring 2019	170	RIDGE RD	15' N OF S DR	42.15555568	-87.81153142
157	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	296	RIDGE RD	40' N OF DR	42.15788309	-87.81235172
158	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	299	RIDGE RD	15' S OF DR	42.15816167	-87.81126592

159	Hackberry	Celtis occidentalis	Planting Spring 2020	346	RIDGE RD	15' S OF DR	42.15882393	-87.81282881
160	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	413	RIDGE RD	70' E OF RIDGE ON CLAVEY RD	42.16014343	-87.81282132
161	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	463	RIDGE RD	15' N OF DR	42.16112931	-87.81318928
162	Smoketree	Cotinus obovatus	Planting Spring 2019	519	RIDGE RD	90' W OF DR ON ROSEMARY RD	42.16226169	-87.81363195
163	Pagoda Tree	Styphnolobium japonicum	Planting Spring 2020	577	RIDGE RD	20' S OF DR	42.16331987	-87.81424059
164	Serviceberry	Amelanchier canadensis	Planting Spring 2019	577	RIDGE RD	40' S OF DR	42.16332042	-87.81424059
165	Hornbeam	Carpinus caroliniana	Planting Spring 2019	686	RIDGE RD	20' N OF DR	42.16486288	-87.81676193
166	Honey Locust	Gleditsia triacanthos	Planting Fall 2021	711	RIDGE RD	125' E OF DR ON STRATH ERIN	42.16564482	-87.81683586
167	Serviceberry	Amelanchier canadensis	Planting Spring 2019	711	RIDGE RD	50' S OF STRATH ERIN	42.16564454	-87.81683586
168	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	711	RIDGE RD	75' S OF STRATH ERIN	42.16564564	-87.81683586
169	Honey Locust	Gleditsia triacanthos	Planting Fall 2021	734	RIDGE RD	10' N of N Dr	42.16577663	-87.81793195
170	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	734	RIDGE RD	245' S OF Ridge ON RED OAK LN	42.16577855	-87.81793194
171	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	734	RIDGE RD	65' S OF MANHOLE ON RED OAK LN	42.16577827	-87.81793194
172	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	734	RIDGE RD	245' S OF MANHOLE ON RED OAK LN	42.16577553	-87.81793196
173	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	734	RIDGE RD	180' S OF MANHOLE ON RED OAK LN	42.1657791	-87.81793193
174	Serviceberry	Amelanchier canadensis	Planting Spring 2020	887	RIDGE RD	50' N OF DR AT 877 RIDGE RD	42.16873813	-87.81820348
175	Honey Locust	Gleditsia triacanthos	Planting Spring 2020	900	RIDGE RD	25' S OF DR	42.16889263	-87.81895888
176	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2019	960	RIDGE RD	15' N OF DR	42.17004092	-87.81942691
177	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2019	972	RIDGE RD	20' S OF DR	42.17021325	-87.81945558
178	Crabapple	Malus sp.	Planting Spring 2022	1050	RIDGE RD	5' S OF N DR	42.17267863	-87.82183542
179	Crabapple	Malus sp.	Planting Fall 2019	1260	RIDGE RD	45' S OF DR	42.17541557	-87.83051814
180	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1831	ROSEMARY RD	5' E OF W DR	42.162004	-87.81717401
181	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1831	ROSEMARY RD	5' W OF E DR	42.16200427	-87.81717401
182	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1849	ROSEMARY RD	10' W OF W DR	42.16226133	-87.81775021
183	Hornbeam	Carpinus caroliniana	Planting Spring 2021	1173	SHERWOOD RD	15' S OF DR	42.17397818	-87.82731249
184	Catalpa, Northern	Catalpa speciosa	Planting Fall 2021	1180	SHERWOOD RD	40' N OF DR	42.17414764	-87.82802036
185	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	1335	SHERWOOD RD	20' N OF DR	42.17691423	-87.82724887
186	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1690	SOUTHLAND AV	10' E OF DR	42.17608323	-87.82408885
187	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1808	SOUTHLAND AV	20' W OF DR	42.17625383	-87.82705689
188	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2019	1894	SOUTHLAND AV	20' E OF DR	42.17591447	-87.8294209
189	Hackberry	Celtis occidentalis	Planting Fall 2019	1894	SOUTHLAND AV	60' E OF DR	42.17592002	-87.82941151
190	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2019	1895	SOUTHLAND AV	65' E OF DR	42.17626936	-87.82962782
191	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2019	1895	SOUTHLAND AV	45' E OF DR	42.17626913	-87.82962412
192	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	542	SUMAC RD	90' E OF DR ON ROSEMARY RD	42.16239126	-87.81329917
193	Crabapple	Malus sp.	Planting Spring 2022	542	SUMAC RD	60' E OF DR ON ROSEMARY RD	42.16239071	-87.81329917
194	Serviceberry	Amelanchier canadensis	Planting Fall 2021	542	SUMAC RD	30' E OF DR ON ROSEMARY RD	42.16239098	-87.81329917

195	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	597	SUMAC RD	40' S OF DR	42.16358146	-87.81322782
196	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	626	SUMAC RD	30' S OF DR	42.16390246	-87.81413864
197	Smoketree	Cotinus obovatus	Planting Spring 2019	639	SUMAC RD	25' N OF DR	42.16430432	-87.81371136
198	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	650	SUMAC RD	40' S OF DR	42.16436817	-87.81439838
199	Baldcypress	Taxodium distichum	Planting Spring 2022	770	SUMAC RD	15' N OF DR	42.16650785	-87.8157372
200	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	905	VILLAS CT	15' S OF DR	42.1690921	-87.8283083
201	Honey Locust	Gleditsia triacanthos	Planting Fall 2021	836	VIRGINIA RD	55' S OF DR	42.16772641	-87.81760547
202	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2022	872	VIRGINIA RD	20' N OF DR	42.16841069	-87.81776284
203	London Planetree	Platanus x Acerifolia	Planting Spring 2021	979	WINDSOR RD	15ft s of dr	42.17047228	-87.82328386
204	Crabapple	Malus sp.	Planting Fall 2021	980	WINDSOR RD	15' N OF DR	42.17048014	-87.82413511
205	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	1	WINDY HILL ISLAND 2	In front of 2063 Windy Hill Ln	42.15768872	-87.82007968
206	Hackberry	Celtis occidentalis	Planting Spring 2020	2055	WINDY HILL LN	10' E OF DR	42.15797858	-87.82059039
207	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	2090	WINDY HILL LN	25' S OF N DR	42.15783064	-87.82190218
208	Baldcypress	Taxodium distichum	Planting Spring 2019	1701	WINTHROP RD	55' E OF DR	42.16972423	-87.81932527
209	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	1766	WINTHROP RD	10' E OF DR	42.16912673	-87.82222524
210	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2021	1778	WINTHROP RD	5' S OF DR	42.16933216	-87.82298786
211	Serviceberry	Amelanchier canadensis	Planting Fall 2019	1801	WINTHROP RD	75' E OF WINTHROP ON HEATHER	42.17064463	-87.82220077
212	Hawthorn	Cretaegus sp.	Planting Spring 2020	847	WOODBINE RD	10' S OF N DR	42.16790772	-87.82030535
213	Serviceberry	Amelanchier canadensis	Planting Spring 2020	847	WOODBINE RD	10' N OF S DR	42.16790872	-87.82031876
214	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	820	APPLE TREE LN	55' S OF APPLE TREE ON SUMMIT	42.20912965	-87.82479688
215	Baldcypress	Taxodium distichum	Planting Spring 2019	821	APPLE TREE LN	70' E OF SUMMIT ON APPLE TREE LN	42.20965795	-87.82489784
216	Baldcypress	Taxodium distichum	Planting Spring 2019	821	APPLE TREE LN	80' E OF SUMMIT ON APPLE TREE LN	42.20966663	-87.82488648
217	Elm, Morton Elm	Ulmus 'Accolade'	Planting Spring 2021	881	APPLE TREE LN	25' N OF APPLE TREE LN	42.20948275	-87.82640356
218	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	2754	ARLINGTON AV	30' N OF DR	42.20261533	-87.82694141
219	Hophornbeam	Ostrya virginiana	Planting Spring 2021	2766	ARLINGTON AV	12' S OF DR	42.20285876	-87.82701216
220	Sweetgum	Liquidambar styraciflua	Planting Spring 2021	2767	ARLINGTON AV	45' S OF DR	42.2028518	-87.82626884
221	Serviceberry	Amelanchier canadensis	Planting Fall 2019	940	AUBURN AV	15' E OF W DR	42.20634158	-87.82623545
222	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	940	AUBURN AV	15' W OF E DR	42.20634213	-87.82623545
223	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	854	AUBURN CT	10' W OF DR	42.20626729	-87.82380132
224	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	530	AUDUBON PL	45' E OF DR	42.2142178	-87.8206324
225	Hackberry	Celtis occidentalis	Planting Fall 2019	530	AUDUBON PL	20' E OF DR	42.21421703	-87.82062773
226	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	540	AUDUBON PL	20' E OF DR	42.21423031	-87.82095585
227	Redbud	Cercis canadensis	Planting Spring 2020	3277	BROOK RD	35' N OF DR	42.21214092	-87.81970018
228	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	3455	BUENA RD	15' N OF DR	42.2154157	-87.84160132
229	Honey Locust	Gleditsia triacanthos	Planting Fall 2019	820	BURCHELL AV	25' W OF POWERPOLE	42.20519781	-87.82195542
230	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	820	BURCHELL AV	138' W OF POWERPOLE	42.20519185	-87.82195408
231	Hornbeam	Carpinus caroliniana	Planting Spring 2019	1227	CAMBRIDGE CT	10' E OF DR	42.20371809	-87.83175498
232	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2019	1227	CAMBRIDGE CT	40' E OF DR	42.20372206	-87.83175498
233	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	4	CB 21	55' S OF ELM PL SIDEWALK on First St	42.18766869	-87.80062886
234	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	3109	CENTENNIAL LN	50' W OF DR	42.20917973	-87.83496325
235	Buckeye	Aesculus glabra	Planting Spring 2019	1034	CENTERFIELD CT	25' E OF DR	42.18659051	-87.81364728

236	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2019	1034	CENTERFIELD CT	5' E OF DR	42.18659078	-87.81364728
237	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	1682	CLIFTON AV	40' S OF DR	42.18322277	-87.81064803
238	Osage Orange	Maclura pomifera	Planting Spring 2021	1682	CLIFTON AV	OPPOSITE DR AT 1682 ON SILAND	42.18322167	-87.81064804
239	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2022	1722	CLIFTON AV	25' N OF DR	42.18382219	-87.81043205
240	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2022	1761	CLIFTON AV	10' S OF DR	42.18444799	-87.80932036
241	London Planetree	Platanus x Acerifolia	Planting Fall 2021	1929	CLIFTON AV	5' N OF DR	42.18743614	-87.8096162
242	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	3118	DATO AV	10' S OF DR	42.20926154	-87.82393487
243	Redbud	Cercis canadensis	Planting Spring 2020	3295	DATO AV	5' N OF S DR	42.21222451	-87.82191666
244	Crabapple	Malus sp.	Planting Fall 2019	3328	DATO AV	45' N OF DR	42.2131677	-87.82246819
245	Hophornbeam	Ostrya virginiana	Planting Spring 2021	3360	DATO AV	18' N OF DR	42.2136189	-87.82194196
246	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2021	3434	DATO AV	12' S OF DR	42.21504152	-87.82204399
247	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	1212	EATON CT	10' W OF W DR	42.20144606	-87.82977345
248	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	1616	ELMWOOD DR	45' N OF DR	42.18191113	-87.81108152
249	Ginkgo	Ginkgo biloba	Planting Fall 2019	1669	ELMWOOD DR	10' S OF DR	42.18331494	-87.81091255
250	Baldcypress	Taxodium distichum	Planting Spring 2019	1688	ELMWOOD DR	15' S OF DR	42.18324538	-87.81212136
251	Oak, Bur	Quercus macrocarpa	Planting Spring 2019	1725	ELMWOOD DR	10' S OF DR	42.18389164	-87.81151586
252	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1746	ELMWOOD DR	15' N OF DR	42.18431229	-87.81230975
253	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	1805	ELMWOOD DR	5' N OF DR	42.1853364	-87.81145638
254	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2019	1821	ELMWOOD DR	25' S OF DR	42.18564034	-87.81113914
255	Buckeye	Aesculus glabra	Planting Spring 2019	1836	ELMWOOD DR	15' S OF DR	42.1859748	-87.81253936
256	Serviceberry	Amelanchier canadensis	Planting Spring 2019	1846	ELMWOOD DR	60' S OF HARVARD Ct on Elmwood Dr	42.18609263	-87.81193069
257	London Planetree	Platanus x Acerifolia	Planting Fall 2021	1924	ELMWOOD DR	15' S OF DR	42.18744508	-87.81193742
258	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1940	ELMWOOD DR	45' N OF DR	42.18762423	-87.81208636
259	Hophornbeam	Ostrya virginiana	Planting Spring 2021	1943	ELMWOOD DR	10' N OF WALK	42.18823925	-87.81173939
260	Sweetgum	Liquidambar styraciflua	Planting Spring 2022	1956	ELMWOOD DR	10' N OF DR	42.18770449	-87.81229112
261	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1835	FIRST ST	120' N OF CENTRAL AV	42.18658149	-87.7999416
262	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1835	FIRST ST	40' N OF CENTRAL AV	42.18658039	-87.79994161
263	Crabapple	Malus sp.	Planting Spring 2021	2070	GREEN BAY RD	20' S OF DR	42.19010614	-87.80377554
264	Amur Corktree	Phellodendron amurense	Planting Spring 2021	2300	GREEN BAY RD	8' N OF DR	42.19414695	-87.80519899
265	Crabapple	Malus sp.	Planting Spring 2022	2382	GREEN BAY RD	30' N OF DR	42.19575266	-87.80619636
266	Hackberry	Celtis occidentalis	Planting Spring 2022	2740	GREENWOOD AV	200' W OF GREENWOOD ON WOODLEIGH AV	42.20230726	-87.82118547
267	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	2775	GREENWOOD AV	20' N OF DR	42.20276639	-87.8204803
268	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2020 (Morton Test Trees)	2780	GREENWOOD AV	140' N OF DR AT 875 WOODLEIGH AV	42.20305281	-87.82105411
269	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2019	2780	GREENWOOD AV	150' N OF DR AT 875 WOODLEIGH AV	42.20305422	-87.82103821
270	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	2785	GREENWOOD AV	60' N OF DR	42.20317296	-87.82048993
271	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	2800	GREENWOOD AV	BERM at intersection of Greenwood and North Ave, 30' West of Greenwood	42.20363881	-87.82116007
272	Baldcypress	Taxodium distichum	Planting Spring 2019	2818	GREENWOOD AV	35' S OF DR	42.20386035	-87.82119559

273	Redbud	Cercis canadensis	Planting Spring 2019	2865	GREENWOOD AV	40' E OF DR ON LLEWELLYN AV	42.20460797	-87.82047334
274	Redbud	Cercis canadensis	Planting Spring 2019	2887	GREENWOOD AV	40' E OF HYDRANT ON BURCHELL AV	42.205011	-87.82044056
275	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	3035	GREENWOOD AV	10' S OF DR	42.20761302	-87.82029868
276	Oak, Red	Quercus rubra	Planting Spring 2021	3035	GREENWOOD AV	20' S OF DR	42.20774699	-87.82012739
277	Buckeye	Aesculus glabra	Planting Spring 2019	3143	GREENWOOD AV	80' N OF DR	42.20968354	-87.82047326
278	Filbert	Corylus colurna	Planting Spring 2019	3143	GREENWOOD AV	10' N OF DR	42.20968382	-87.82047326
279	Serviceberry	Amelanchier canadensis	Planting Spring 2019	895	HALF DAY RD	45' W OF DR	42.20046574	-87.81964489
280	Crabapple	Malus sp.	Planting Fall 2019	955	HALF DAY RD	125' N OF HALF DAY ON GREENWOOD	42.20026397	-87.82137818
281	Serviceberry	Amelanchier canadensis	Planting Fall 2019	1069	HALF DAY RD	25' W OF DR	42.20032269	-87.82450415
282	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2020 (Morton Test Trees)	1150	HALF DAY RD	ALONG THE SKOKIE RIVER WEST OF THE PARKING LOT	42.19853444	-87.82539929
283	Hackberry	Celtis occidentalis	Planting Spring 2022	983	HARVARD CT	45' E OF DR	42.18671458	-87.81188955
284	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	983	HARVARD CT	120' N OF HARVARD ON ELMWOOD DR	42.18671595	-87.81188954
285	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	1270	HILARY LN	15' W OF DR	42.1837056	-87.81762732
286	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	558	HILL ST	10' E of W Dr	42.21093154	-87.81870467
287	Crabapple	Malus sp.	Planting Spring 2020	751	HILL ST	20' E OF E DR	42.21174675	-87.8243442
288	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	815	HILL ST	80' E OF DR	42.21191633	-87.82646623
289	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	818	HILL ST	80' E of DR	42.2114476	-87.82642672
290	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	618	HYACINTH PL	10' E OF DR	42.21662106	-87.82489257
291	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	618	HYACINTH PL	10' W OF DR	42.21662205	-87.82488855
292	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	2859	IDLEWOOD LN	40' N OF DR	42.20450836	-87.82767681
293	Catalpa, Purple	Catalpa erubescens 'Purpurea'	Planting Fall 2019	2945	IDLEWOOD LN	40' S OF DR	42.20615464	-87.8276777
294	Elm, New Horizon	Ulmus 'New Horizon'	Planting Spring 2021	1104	KENT AV	10' E OF W DR	42.20089182	-87.82679207
295	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	3303	KRENN AV	10' S OF DR	42.21236286	-87.82375787
296	Catalpa, Northern	Catalpa speciosa	Planting Spring 2022	3550	KRENN AV	44' S OF DR	42.21712362	-87.82324505
297	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	2978	LEXINGTON LN	70' S OF S DR	42.20674457	-87.83558568
298	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	3005	LEXINGTON LN	20' N OF DR	42.20745318	-87.83545882
299	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	730	LLEWELLYN AV	25' E OF DR	42.20405821	-87.81844213
300	Elm, Morton Elm	Ulmus 'Accolade'	Planting Spring 2021	745	LLEWELLYN AV	25' W OF DR	42.20454957	-87.81890281
301	Oak, Shingle	Quercus imbricaria	Planting Spring 2022	1242	LYNN TR	30' E OF DR	42.20026442	-87.83072065
302	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	2720	MARL OAK DR	10' N OF DR	42.20203756	-87.82385362
303	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	2730	MARL OAK DR	8' S OF DR	42.20224158	-87.82408324
304	Serviceberry	Amelanchier canadensis	Planting Fall 2021	2730	MARL OAK DR	5' S OF DR	42.20225261	-87.82388247
305	Hackberry	Celtis occidentalis	Planting Fall 2019	769	NORTH AV	15' E OF DR	42.20369295	-87.81866136
306	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2021	785	NORTH AV	15' W OF DR	42.20374055	-87.8191061
307	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2021	815	NORTH AV	10' W OF DR	42.20368325	-87.81976009
308	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2022	825	NORTH AV	45' S OF DR	42.20362933	-87.82038965
309	London Planetree	Platanus x Acerifolia	Planting Spring 2022	825	NORTH AV	30' S OF DR	42.20362933	-87.82038965
310	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2022	825	NORTH AV	15' S OF DR	42.20363033	-87.82038965
311	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	945	NORTH AV	40' W OF PARKING LOT E OF SCHOOL	42.20388969	-87.8235461
312	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	954	NORTH AV	40' W OF DR	42.20323881	-87.82389599

313	Crabapple	Malus sp.	Planting Fall 2021	1029	NORTH AV	25' E OF DR	42.20367477	-87.82627271
314	Buckeye	Aesculus glabra	Planting Spring 2019	1055	NORTH AV	18' S OF DR AT 2824 ON ARLINGTON AV	42.20370651	-87.82698011
315	London Planetree	Platanus x Acerifolia	Planting Spring 2019	1075	NORTH AV	25' E OF WALK	42.20368116	-87.8276393
316	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2021	1210	NORTH AV	110' S OF NORTH ON TRAIL WAY	42.20237741	-87.8304578
317	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2020 (Morton Test Trees)	4	OE 1	ACROSS FROM S DR AT 3556 WESTERN AV, 30' S of Dr	42.21618385	-87.82046946
318	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	690	OLD TRAIL	50' S of Old Trail on Warbler Pl	42.20637788	-87.81905091
319	Tuliptree	Liriodendron tulipifera	Planting Spring 2019	807	OLD TRAIL	10' W OF E DR	42.20783284	-87.82320501
320	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	852	OLD TRAIL	10' W OF DR	42.20737271	-87.82443043
321	Crabapple	Malus sp.	Planting Spring 2022	533	ONWENTSIA AV	35' N OF ONWENTSIA AVE ON GREEN BAY	42.19373145	-87.80474685
322	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	533	ONWENTSIA AV	80' N OF ONWENTSIA AVE ON GREEN BAY RD	42.19373063	-87.80474686
323	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	892	PARK AV	20' W OF DR	42.18857673	-87.81123527
324	Elm, New Horizon	Ulmus 'New Horizon'	Planting Spring 2021	1220	PARK AV	285' W OF ENTRANCE TO BROOK ESTATES	42.18845777	-87.81957234
325	Amur Corktree	Phellodendron amurense	Planting Spring 2021	1220	PARK AV	90' W OF ENTRANCE TO BROOK ESTATES	42.18853438	-87.81942563
326	London Planetree	Platanus x Acerifolia	Planting Spring 2021	2907	PARKSIDE DR	35' E OF DR	42.20583296	-87.83316994
327	Serviceberry	Amelanchier canadensis	Planting Spring 2020	2908	PARKSIDE DR	15' S OF DR	42.20536477	-87.83390037
328	Sweetgum	Liquidambar styraciflua	Planting Spring 2021	2990	PARKSIDE DR	80' N OF DR	42.20708295	-87.83448403
329	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	3025	PARKSIDE DR	45' W OF DR	42.20813971	-87.83462818
330	Oak, Red	Quercus rubra	Planting Spring 2021	3087	PARKSIDE DR	10' E OF DR	42.20872218	-87.83642076
331	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	3090	PARKSIDE DR	35' E OF DR	42.20818786	-87.83740751
332	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2021	977	PRINCETON AV	10' W OF DR FOR 973 PRINCETON AV	42.18376672	-87.80982063
333	London Planetree	Platanus x Acerifolia	Planting Spring 2022	977	PRINCETON AV	20' E OF DR AT 999 PRINCETON	42.18376083	-87.80982327
334	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	994	PRINCETON AV	10' E OF DR	42.18296061	-87.80971344
335	Magnolia	Magnolia sp.	Planting Spring 2019	1010	PRINCETON AV	20' E OF DR	42.1827925	-87.81003542
336	Buckeye	Aesculus glabra	Planting Spring 2019	1026	PRINCETON AV	15' E OF DR	42.18259737	-87.81033022
337	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1054	PRINCETON AV	25' E OF DR	42.18249159	-87.81112779
338	Tuliptree	Liriodendron tulipifera	Planting Spring 2019	2670	PRISCILLA AV	10' N OF DR	42.20132575	-87.82254323
339	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2019	2715	PRISCILLA AV	50' N OF DR	42.20174549	-87.8217531
340	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2019	2740	PRISCILLA AV	50' S OF DR	42.20233688	-87.8224591
341	Sweetgum	Liquidambar styraciflua	Planting Spring 2022	2765	PRISCILLA AV	40' N OF DR	42.2026649	-87.82174337
342	Hophornbeam	Ostrya virginiana	Planting Spring 2021	3088	PRISCILLA AV	40' S OF DR	42.20852076	-87.82245019
343	Crabapple	Malus sp.	Planting Fall 2021	1960	SECOND ST	40' S OF DR	42.18796376	-87.80306212
344	Serviceberry	Amelanchier canadensis	Planting Spring 2020	1992	SECOND ST	60' N of Parking Lot Entrance	42.18844095	-87.80319285
345	Crabapple	Malus sp.	Planting Spring 2021	1863	SHEAHEN CT	10' S OF DR	42.18636071	-87.80419607
346	Crabapple	Malus sp.	Planting Spring 2021	1863	SHEAHEN CT	20' S OF DR	42.18636043	-87.80419607
347	Crabapple	Malus sp.	Planting Spring 2021	591	SKOKIE AV	10' E OF DR	42.19499611	-87.80720594

348	Hophornbeam	Ostrya virginiana	Planting Spring 2021	591	SKOKIE AV	30' E OF DR	42.19499809	-87.80720594
349	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	604	SKOKIE AV	10' W OF DR	42.19447807	-87.80758183
350	Honey Locust	Gleditsia triacanthos	Planting Spring 2020	2617	SUMMIT AV	15' N OF DR ON SUMMIT	42.200204	-87.82490594
351	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2021	2881	SUMMIT AV	8' S OF DR	42.20489964	-87.8248917
352	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	3083	SUMMIT AV	20' N OF S DR	42.20857887	-87.82479945
353	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	3170	SUMMIT AV	35' S OF DR	42.21019054	-87.82559803
354	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	3233	SUMMIT AV	15' N OF DR	42.21125951	-87.82477887
355	Redbud	Cercis canadensis	Planting Spring 2019	3244	SUMMIT AV	20' N OF DR	42.21131493	-87.82597291
356	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	3333	SUMMIT AV	10' S OF N DR	42.21327728	-87.82477708
357	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	3490	SUMMIT AV	5' N OF DR	42.21606814	-87.82506377
358	Crabapple	Malus sp.	Planting Fall 2021	1475	SUNSET RD	10' S OF N DR	42.17940205	-87.80818119
359	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	1818	SUNSET RD	5' S of Dr	42.18549855	-87.80882551
360	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2019	1968	SUNSET RD	40' S OF DR	42.18829004	-87.8089491
361	London Planetree	Platanus x Acerifolia	Planting Spring 2022	2800	TRAILWAY	60' W OF SIDEWALK ON NORTH AV	42.20297791	-87.83080233
362	Oak, Bur	Quercus macrocarpa	Planting Spring 2022	2829	TWIN OAKS DR	15' W OF E DR	42.20451824	-87.82837195
363	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2021	2919	TWIN OAKS DR	40' N OF DR	42.20572844	-87.82909546
364	Crabapple	Malus sp.	Planting Spring 2021	3279	UNIVERSITY AV	30' N OF DR	42.21212877	-87.82644718
365	Buckeye	Aesculus glabra	Planting Spring 2020	3335	UNIVERSITY AV	10' N OF DR	42.21318406	-87.82648064
366	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	3035	WARBLER PL	55' N OF DR	42.20770646	-87.81900417
367	Hackberry	Celtis occidentalis	Planting Fall 2019	3328	WESTERN AV	50' S OF DR	42.2130035	-87.81937444
368	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2019	502	WESTERN PL	25' S OF DR	42.21527687	-87.8203503
369	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	875	WOODLEIGH AV	10' N OF DR ON GREENWOOD	42.20271743	-87.82110833
370	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2021	835	YALE LN	10' W OF DR	42.18804985	-87.80870155
371	Oak, Shingle	Quercus imbricaria	Planting Spring 2022	859	YALE LN	12' E OF DR	42.18827182	-87.80962382
372	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	779	BOB-O-LINK RD	5' E OF W DR	42.17668595	-87.79915439
373	Crabapple	Malus sp.	Planting Spring 2022	839	BOB-O-LINK RD	30' E OF Dr	42.17669703	-87.80007337
374	Crabapple	Malus sp.	Planting Spring 2022	887	BOB-O-LINK RD	25' W OF FAIRVIEW ON BOB-O-LINK	42.17656605	-87.80153051
375	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	921	BOB-O-LINK RD	25' E OF DR	42.17677648	-87.80231049
376	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2019	946	BOB-O-LINK RD	10' E OF DR	42.17597835	-87.80296646
377	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	1040	BOB-O-LINK RD	50' W OF DR	42.17614729	-87.80558317
378	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	1040	BOB-O-LINK RD	10' W OF Dr	42.17614763	-87.80557502
379	Catalpa, Northern	Catalpa speciosa	Planting Fall 2021	1055	BOB-O-LINK RD	75' N OF BOB-O-LINK ON MCDANIELS AV	42.17649459	-87.80580486
380	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1100	BOB-O-LINK RD	10' W OF DR	42.17593157	-87.80716015
381	Hophornbeam	Ostrya virginiana	Planting Spring 2021	1126	BOB-O-LINK RD	5' E OF DR	42.17591909	-87.80791764
382	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	444	BROADVIEW AV	15' S OF DR	42.16041257	-87.78328588
383	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2019	454	BROADVIEW AV	15' N OF DR	42.16059094	-87.78347041
384	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	577	BROADVIEW AV	10' S OF DR	42.16313055	-87.78473052
385	Hornbeam	Carpinus caroliniana	Planting Spring 2019	661	BROADVIEW AV	10' N OF DR	42.16463347	-87.78599173
386	Baldcypress	Taxodium distichum	Planting Spring 2019	667	BROADVIEW AV	6' S OF DR	42.16482331	-87.78594583
387	Crabapple	Malus sp.	Planting Spring 2021	667	BROADVIEW AV	30' S OF DR	42.16482304	-87.78594583
388	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	673	BROADVIEW AV	10' S OF DR	42.1648777	-87.78598815
389	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	807	BROADVIEW AV	20' N OF DR	42.16730646	-87.78804541

390	Hackberry	Celtis occidentalis	Planting Spring 2020	866	BROADVIEW AV	20' E OF DR	42.168059	-87.78985063
391	Horsechestnut	Aesculus × carnea 'Ft. McNair'	Planting Spring 2019	427	BURTON AV	20' N OF DR	42.16024849	-87.77952215
392	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	454	BURTON AV	20' S OF DR	42.16061513	-87.78062783
393	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2019	568	BURTON AV	80' E OF DR ON WASHINGTON PL	42.16266933	-87.78233612
394	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2019	568	BURTON AV	10' E OF DR ON WASHINGTON PL	42.16266906	-87.78233613
395	Horsechestnut	Aesculus × carnea 'Ft. McNair'	Planting Spring 2019	910	BURTON AV	15' S OF DR	42.16885485	-87.78755792
396	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	929	BURTON AV	10' S of Dr	42.16940609	-87.78707657
397	Hackberry	Celtis occidentalis	Planting Fall 2019	1006	CHAUCER LN	8' N OF S DR	42.17077437	-87.79869766
398	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	1033	CHAUCER LN	45' N OF WALK TO HOUSE	42.17139468	-87.79796332
399	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2021	1117	CROFTON AV	60' S OF DR	42.1727488	-87.79984888
400	Amur Corktree	Phellodendron amurense	Planting Spring 2021	1310	DEERFIELD PL	125' W OF DEERFIELD ON BOB-O-LINK RD	42.17660658	-87.815858
401	Hackberry	Celtis occidentalis	Planting Spring 2020	1435	DEERFIELD PL	30' N OF N DR (PS)	42.17866662	-87.81570169
402	Redbud	Cercis canadensis	Planting Spring 2020	1462	DEERFIELD PL	10' N OF N DR	42.17956018	-87.81598697
403	Magnolia	Magnolia sp.	Planting Spring 2019	681	DETAMBLE AV	5' E OF W DR	42.17266662	-87.79333828
404	Baldcypress	Taxodium distichum	Planting Spring 2019	1373	DIVISION ST	25' E OF DR	42.17840811	-87.81654939
405	Hophornbeam	Ostrya virginiana	Planting Spring 2019	1373	DIVISION ST	10' E OF DR	42.17840921	-87.81654938
406	Horsechestnut	Aesculus × carnea 'Ft. McNair'	Planting Spring 2019	835	EDGEWOOD RD	30' W OF DR	42.16746413	-87.79319014
407	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	1660	FIRST ST	200' S OF LAUREL	42.18300605	-87.79773296
408	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2019	1660	FIRST ST	65' N of "Public Parking" Sign (Parking Lot Main Entrance)	42.18300207	-87.79771419
409	Redbud	Cercis canadensis	Planting Spring 2019	1157	GLENCOE AV	40' E OF DR	42.1733082	-87.79460788
410	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	1173	GLENCOE AV	30' W OF DR	42.17345884	-87.79399387
411	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	1218	GLENCOE AV	25' S of Dr at 1222 Glencoe	42.17442921	-87.79452053
412	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	1243	GLENCOE AV	35' N OF DR	42.17520188	-87.79432306
413	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1463	GLENCOE AV	5' S OF WALK	42.17903625	-87.79580645
414	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2021	1499	GLENCOE AV	15' N OF DR ON LINCOLN PL	42.1796748	-87.79583886
415	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1499	GLENCOE AV	15' N OF DR ON LINCOLN PL	42.17970721	-87.79580379
416	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	1514	GLENCOE AV	15' S OF DR	42.18002972	-87.79660884
417	Crabapple	Malus sp.	Planting Spring 2022	740	GREAT ELM LN	115' S OF GREAT ELM, ON GREEN BAY RD	42.17262867	-87.79503072
418	Sweetgum	Liquidambar styraciflua	Planting Spring 2019	421	GREEN BAY RD	25' S OF DR	42.16020895	-87.78372489
419	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	759	GREEN BAY RD	15' N OF DR	42.16642998	-87.78871227
420	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	845	GREEN BAY RD	10' N OF S DR	42.16786993	-87.79011973
421	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2019	885	GREEN BAY RD	10' N OF S DR	42.16870369	-87.79084571
422	Horsechestnut	Aesculus × carnea 'Ft. McNair'	Planting Spring 2019	885	GREEN BAY RD	40' N OF S DR	42.16870829	-87.79084927
423	Crabapple	Malus sp.	Planting Fall 2021	1417	GREEN BAY RD	15' S OF WALK	42.17802363	-87.79827376
424	Horsechestnut	Aesculus × carnea 'Ft. McNair'	Planting Spring 2019	1477	GREEN BAY RD	75' S OF DR	42.17938853	-87.79884111
425	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	1549	GREEN BAY RD	10' S OF DR	42.18064615	-87.79907494
426	Zelkova	Zelkova serata	Planting Spring 2019	765	KIMBALL RD	10' E OF DR	42.18041234	-87.80063529

427	Cornelian Cherry	Cornus mas	Planting Spring 2019	765	KIMBALL RD	20' W OF DR	42.18041207	-87.80063529
428	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	940	KIMBALL RD	5' W OF DR	42.17971206	-87.80565416
429	Hophornbeam	Ostrya virginiana	Planting Spring 2021	642	LINCOLN AV W	15' W OF DR	42.17681568	-87.79503189
430	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2021	658	LINCOLN AV W	15' W OF DR	42.17668149	-87.79538129
431	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	1400	LINCOLN PL	40' N OF LINCOLN AV W	42.17769489	-87.79435225
432	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1420	LINCOLN PL	15' N OF DR	42.17803305	-87.79500884
433	Serviceberry	Amelanchier canadensis	Planting Fall 2019	1446	LINCOLN PL	ACROSS ST	42.17862495	-87.79514106
434	London Planetree	Platanus x Acerifolia	Planting Spring 2019	1009	MARVELL LN	45' W OF DR	42.17787435	-87.80580871
435	Sweetgum	Liquiambar styraciflua	Planting Spring 2022	1363	MCDANIELS AV	10' N OF DR	42.17734295	-87.80545324
436	Redbud	Cercis canadensis	Planting Spring 2020	1368	MCDANIELS AV	30' S OF DR	42.17730224	-87.80638419
437	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	1408	MCDANIELS AV	10' S OF WALK	42.17816509	-87.80637647
438	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	1524	MCDANIELS AV	15' N OF DR	42.1802575	-87.80684038
439	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	1572	MCDANIELS AV	10' S OF DR	42.18120539	-87.80648958
440	Serviceberry	Amelanchier canadensis	Planting Fall 2019	1572	MCDANIELS AV	10' N OF DR	42.18120713	-87.80648708
441	Elm	Ulmus sp.	Planting Spring 2019	804	MOSELEY RD	30' N OF S DR	42.16765576	-87.7926132
442	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	816	MOSELEY RD	10' S OF S DR	42.16787308	-87.79273791
443	Crabapple	Malus sp.	Planting Spring 2022	600	MULBERRY PL	10' E OF DR ON MULBERRY	42.18037003	-87.79648137
444	Crabapple	Malus sp.	Planting Spring 2022	612	MULBERRY PL	20' E OF DR	42.18038226	-87.79704411
445	Crabapple	Malus sp.	Planting Spring 2022	622	MULBERRY PL	3' E OF FRONT WALK	42.18044086	-87.79749852
446	Honey Locust	Gleditsia triacanthos	Planting Fall 2021	1448	OAKWOOD AV	25' S OF DR	42.17877765	-87.79823327
447	Oak, Red	Quercus rubra	Planting Spring 2021	1488	OLD BARN LN	65' W OF OLD BARN LN ON KIMBALL RD	42.17973879	-87.80484887
448	Redbud	Cercis canadensis	Planting Spring 2021	435	PLEASANT AV	10' S OF DR	42.16052325	-87.78111106
449	Buckeye	Aesculus glabra	Planting Spring 2020	485	PLEASANT AV	15' S OF DR	42.1614463	-87.78170731
450	Tuliptree	Liriodendron tulipifera	Planting Spring 2019	525	PLEASANT AV	10' S OF DR	42.16209745	-87.78245598
451	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	584	PLEASANT AV	30' N OF DR	42.16300892	-87.78403372
452	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	584	PLEASANT AV	10' N OF DR	42.16300864	-87.78403372
453	Oak, Red	Quercus rubra	Planting Fall 2021	666	PLEASANT AV	50' N OF HIGHLAND PL	42.16444511	-87.78528682
454	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2022	750	PLEASANT AV	20' S OF DR	42.16603641	-87.78660795
455	Serviceberry	Amelanchier canadensis	Planting Fall 2021	805	PLEASANT AV	15' N OF WALK	42.1672594	-87.78658049
456	Hawthorn	Cretaegus sp.	Planting Spring 2020	851	PLEASANT AV	20' N OF DR	42.16800473	-87.78746747
457	Serviceberry	Amelanchier canadensis	Planting Fall 2019	560	RAVINIA RD	20' S OF RAVINIA ON BURTON AV	42.17071291	-87.78838393
458	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	560	RAVINIA RD	45' S OF RAVINIA ON BURTON AV	42.17071264	-87.78838393
459	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2019	595	RAVINIA RD	40' E OF DR	42.17099175	-87.78949737
460	Honey Locust	Gleditsia triacanthos	Planting Fall 2021	933	RIDGEWOOD DR	50' E OF DR	42.1693114	-87.79113763
461	Dogwood	Cornus sp.	Planting Spring 2019	945	RIDGEWOOD DR	25' N OF DR	42.16939749	-87.78995817
462	London Planetree	Platanus x Acerifolia	Planting Spring 2021	985	RIDGEWOOD DR	5' N OF DR	42.17024455	-87.78952374
463	Crabapple	Malus sp.	Planting Spring 2021	997	RIDGEWOOD DR	10' E OF RIDGEWOD ON RAVINIA RD	42.17051845	-87.78976836
464	Sumac, Spp.	Rhus sp.	Planting Spring 2019	1030	RIDGEWOOD DR	15' N OF DR	42.17118929	-87.79066086
465	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	1030	RIDGEWOOD DR	35' N OF DR	42.1711972	-87.79065326
466	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2019	1205	RIDGEWOOD DR	5' S OF Hydrant	42.17457958	-87.79155065
467	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1234	RIDGEWOOD DR	25' S OF DR	42.17473922	-87.79283913
468	Crabapple	Malus sp.	Planting Fall 2021	1288	RIDGEWOOD DR	25' S OF DR	42.17564734	-87.79377053

469	Redbud	Cercis canadensis	Planting Spring 2021	1338	RIDGEWOOD DR	5' N OF DR	42.17666233	-87.79435678
470	Crabapple	Malus sp.	Planting Fall 2019	1364	RIDGEWOOD DR	20' W OF DR ON LINCOLN AV W	42.17713638	-87.79474178
471	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1364	RIDGEWOOD DR	10' E OF DR ON LINCOLN AV W	42.17713611	-87.79474178
472	Cornelian Cherry	Cornus mas	Planting Spring 2019	919	RIDGEWOOD PL	60' N OF WALKWAY	42.1691949	-87.79038465
473	Cornelian Cherry	Cornus mas	Planting Spring 2019	919	RIDGEWOOD PL	15' N OF DRIVEWAY	42.16919572	-87.79038465
474	Cornelian Cherry	Cornus mas	Planting Spring 2019	919	RIDGEWOOD PL	10' N WALKWAY	42.169196	-87.79038464
475	Redbud	Cercis canadensis	Planting Spring 2019	920	RIDGEWOOD PL	5' N OF DR	42.16916109	-87.79101996
476	Tuliptree	Liriodendron tulipifera	Planting Spring 2020	1047	SAXONY DR	5' E OF W DR	42.17229426	-87.79555351
477	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	1047	SAXONY DR	10' W of E Dr	42.17230368	-87.79555673
478	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1048	SAXONY DR	BETWEEN DRIVEWAYS	42.1717172	-87.79568509
479	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1070	SAXONY DR	80' E OF DR	42.17168989	-87.79786787
480	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1087	SAXONY DR	10' W OF DR	42.17225789	-87.79903247
481	London Planetree	Platanus x Acerifolia	Planting Spring 2021	1633	SECOND ST	100' N OF WALNUT ST (D)	42.1825117	-87.79878666
482	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2020	1700	SECOND ST	40' S of Walk	42.18330318	-87.80007453
483	Buckeye	Aesculus glabra	Planting Spring 2020	1700	SECOND ST	20' S OF Walk	42.18332809	-87.80083794
484	Honey Locust	Gleditsia triacanthos	Planting Fall 2019	1866	SECOND ST	10' S of suite 162	42.18667698	-87.80221624
485	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	771	THACKERAY DR	15' N OF THACKERAY ON SAXONY	42.16953978	-87.79298919
486	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2021	1152	THORN TREE LN	10' W OF DR	42.17495825	-87.80514013
487	Elm, New Horizon		Planting Spring 2021	563	WASHINGTON PL	50' E OF DR	42.16290559	-87.78259466
488	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2020	581	WASHINGTON PL	30' E of Pleasant Ave	42.16281626	-87.78280696
489	London Planetree	Platanus x Acerifolia	Planting Spring 2021	634	WASHINGTON PL	35' S OF WASHINGTON ON BROADVIEW	42.16200349	-87.78374947
490	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	151	BELLE AV	15' E OF DR	42.19091342	-87.79206644
491	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	175	BELLE AV	20' E OF DR	42.19063179	-87.79244489
492	Redbud	Cercis canadensis	Planting Spring 2019	229	BLOOM ST	10' W OF DR	42.20160996	-87.80206126
493	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2019	328	BLOOM ST	40' W of Dr	42.20068529	-87.80428883
494	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2021	5	CB 9	Trinity Parking Lot: Island on east end	42.18612136	-87.79611432
495	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2021	5	CB 9	Trinity Parking Lot: Island on east end	42.18616707	-87.79613846
496	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2021	5	CB 9	Trinity Parking Lot: Island on east end	42.18620086	-87.79615991
497	Baldcypress	Taxodium distichum	Planting Spring 2021	147	CENTRAL AV	20' W OF DR	42.18969006	-87.7913565
498	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	147	CENTRAL AV	160' W OF DR	42.18969116	-87.79135649
499	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	180	CENTRAL AV	15' W OF E DR	42.18824814	-87.79101361
500	Hophornbeam	Ostrya virginiana	Planting Spring 2021	228	CENTRAL AV	16' N of alley ON DALE AV	42.18778055	-87.79203125
501	Elm, New Horizon	Ulmus 'New Horizon'	Planting Spring 2021	309	CENTRAL AV	15' E OF WALK	42.1877696	-87.79427075
502	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2022	400	CENTRAL AV	NE CORNER OF NEW LOT	42.18685889	-87.79526757
503	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	400	CENTRAL AV	96' E OF NEW LOT	42.18686088	-87.79540572
504	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	400	CENTRAL AV	66' E OF NEW LOT	42.18684299	-87.79546205
505	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	400	CENTRAL AV	36' E OF NEW LOT	42.18682511	-87.79551569

506	Baldcypress	Taxodium distichum	Planting Spring 2019	100	CENTRAL MEDIAN	OPPOSITE 180 CENTRAL AV: Across from W Driveway	42.18877767	-87.79042379
507	Sweetgum	Liquiambar styraciflua	Planting Spring 2019	100	CENTRAL MEDIAN	OPPOSITE 180 CENTRAL AV: 20' E of Driveway	42.18873221	-87.79055429
508	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2019	100	CENTRAL MEDIAN	OPPOSITE 180 CENTRAL AV: Across from E Driveway	42.18873457	-87.79055608
509	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2020 (Morton Test Trees)	300	CENTRAL MEDIAN	OPPOSITE 3210 Central Ave	42.18742235	-87.79430287
510	Hackberry	Celtis occidentalis	Planting Spring 2022	357	CENTRAL MEDIAN	OPPOSITE 367 CENTRAL AV IN CENTRAL MEDIAN	42.18698403	-87.79559678
511	Amur Corktree	Phellodendron amurense	Planting Spring 2021	1765	DALE AV	30' E OF DALE on Hazel	42.18447569	-87.79072375
512	Redbud	Cercis canadensis	Planting Spring 2020	1765	DALE AV	45' S OF DR	42.18447459	-87.79072376
513	Oak, Shingle	Quercus imbricaria	Planting Spring 2022	1800	FOREST AV	10' N OF DR	42.18481996	-87.78933313
514	Buckeye	Aesculus glabra	Planting Spring 2020	1800	FOREST AV	10' S OF S DR	42.18493231	-87.78934806
515	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	2765	FT SHERIDAN AV	10' S OF DR	42.20269041	-87.8018913
516	Hackberry	Celtis occidentalis	Planting Fall 2019	207	HAZEL AV	10' E of Walk	42.18465653	-87.78853374
517	Sumac	Rhus sp.	Planting Spring 2019	423	HAZEL AV	200' N OF HAZEL ON LINDEN AV	42.18371339	-87.79403345
518	Smoketree	Cotinus obovatus	Planting Spring 2019	423	HAZEL AV	100' N OF HAZEL ON LINDEN AV	42.18372183	-87.79403498
519	Smoketree	Cotinus obovatus	Planting Spring 2019	423	HAZEL AV	80' N OF HAZEL ON LINDEN AV	42.18372129	-87.79403499
520	Smoketree	Cotinus obovatus	Planting Spring 2019	423	HAZEL AV	60' N OF HAZEL ON LINDEN AV	42.18372211	-87.79403498
521	Baldcypress	Taxodium distichum	Planting Spring 2021	1895	LAKE AV	205' S OF DR	42.18711161	-87.78853344
522	Filbert	Corylus columna	Planting Spring 2019	191	LAUREL AV	30' E OF WALK	42.18768024	-87.79100042
523	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	218	LAUREL AV	40' E OF DALE ON LAUREL	42.18663937	-87.79142188
524	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2020	256	LAUREL AV	65' W OF DALE AV	42.18650379	-87.79179304
525	Honey Locust	Gleditsia triacanthos	Planting Spring 2020	280	LAUREL AV	10' W OF DR	42.18628057	-87.79232487
526	Catalpa, Northern	Catalpa speciosa	Planting Fall 2021	290	LAUREL AV	15' W OF DR	42.18620238	-87.79247883
527	Hornbeam	Carpinus caroliniana	Planting Spring 2019	311	LAUREL AV	40' E OF DR	42.18676596	-87.79316022
528	Hackberry	Celtis occidentalis	Planting Spring 2022	330	LAUREL AV	40' E OF E WALK	42.18583159	-87.79306268
529	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2020 (Morton Test Trees)	330	LAUREL AV	Across from 1864 Linden Ave	42.18651172	-87.79413814
530	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	411	LAUREL AV	5' E OF WALK	42.18606204	-87.79566932
531	Magnolia	Magnolia sp.	Planting Spring 2019	475	LAUREL AV	25' E OF CENTER WALK	42.18539492	-87.79686274
532	Osage Orange	Maclura pomifera	Planting Spring 2021	494	LAUREL AV	BETWEEN DRIVES	42.18460941	-87.7964099
533	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	494	LAUREL AV	60' W OF DR IN FRONT LAWN	42.18459938	-87.79641224
534	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	2780	LAURETTA PL	30' W OF LAURETTA ON WALKER	42.20302294	-87.80704775
535	Serviceberry	Amelanchier canadensis	Planting Spring 2020	1784	LINDEN AV	120' S OF DR	42.18493461	-87.79375718
536	Baldcypress	Taxodium distichum	Planting Spring 2019	2153	LINDEN AV	50' S OF DR	42.19153515	-87.7955446

537	Catalpa, Northern	Catalpa speciosa	Planting Fall 2021	2160	LINDEN AV	15' N OF WALK	42.19181627	-87.79660618
538	Hawthorn	Cretaegus sp.	Planting Spring 2020	2248	LINDEN AV	15' S OF DR	42.19338057	-87.79667007
539	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	2290	LINDEN AV	10' S OF N DR	42.19412686	-87.79630868
540	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	180	LINDEN PARK PL	5' E OF DR	42.19155562	-87.79314649
541	River Birch	Betula nigra	Planting Spring 2021	210	LINDEN PARK PL	45' W OF DR	42.19125524	-87.79377198
542	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	132	MAPLE AV	10' E OF DR	42.19547426	-87.79500273
543	Oak, Bur	Quercus macrocarpa	Planting Spring 2019	185	MAPLE AV	30' E OF DR	42.19592727	-87.79646395
544	Buckeye	Aesculus glabra	Planting Spring 2020	332	MAPLE AV	60' W OF FRONT WALK ON MAPLE	42.19394514	-87.79972346
545	Sweetgum	Liquiambar styraciflua	Planting Spring 2021	192	MORaine RD	25' E OF DR AT 220 MORaine RD	42.19750611	-87.79867314
546	Sweetgum	Liquiambar styraciflua	Planting Spring 2019	387	MORaine RD	15' W OF E DR	42.19893498	-87.80448158
547	Hophornbeam	Ostrya virginiana	Planting Spring 2021	387	MORaine RD	15' E OF W DR	42.19893443	-87.80448158
548	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	440	MORaine RD	30' W OF DR	42.19807323	-87.80572184
549	Redbud	Cercis canadensis	Planting Spring 2021	440	MORaine RD	ON CORNER OF WAUKEGAN AND MORaine	42.19807484	-87.80571917
550	Honey Locust	Gleditsia triacanthos	Planting Fall 2021	2680	OAK ST	25' W OF DR ON BLOOM	42.20118832	-87.79905453
551	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2020	2735	OAK ST	45' N OF DR	42.20212415	-87.79827843
552	Crabapple	Malus sp.	Planting Spring 2020	2735	OAK ST	15' N OF DR	42.20212388	-87.79827843
553	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	2776	OAK ST	15' S OF N DR	42.20281126	-87.79899085
554	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	428	ORCHARD LN	10' E OF DR	42.19652457	-87.80422933
555	Serviceberry	Amelanchier canadensis	Planting Spring 2020	357	PARK AV	10' W OF WALK	42.18872398	-87.79631809
556	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	357	PARK AV	10' E OF WALK	42.18872425	-87.79631809
557	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2021	366	PARK AV	10' W OF WALK	42.18793031	-87.79582499
558	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	385	PARK AV	10' E OF FRONT WALK	42.18855359	-87.79679983
559	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	391	PARK AV	65' E OF DR AT 401 PARK AV	42.18834748	-87.79680667
560	Catalpa, Northern	Catalpa speciosa	Planting Spring 2022	2746	PORT CLINTON RD	10' S OF DR	42.20234619	-87.80163868
561	Serviceberry	Amelanchier canadensis	Planting Fall 2021	162	PROSPECT AV	15' S OF DR ON LAKE AV	42.18493719	-87.78825274
562	Tuliptree	Liriodendron tulipifera	Planting Spring 2019	284	PROSPECT AV	40' W OF DALE AV	42.18491509	-87.79142942
563	Filbert	Corylus colurna	Planting Spring 2019	284	PROSPECT AV	15' W OF WALK	42.18491454	-87.79142942
564	London Planetree	Platanus x Acerifolia	Planting Fall 2021	306	PROSPECT AV	50' E OF DR	42.18499995	-87.79221235
565	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2019	325	PROSPECT AV	15' W OF E DR	42.185818	-87.79258223
566	Crabapple	Malus sp.	Planting Fall 2019	2773	ROSLYN LN	60' N OF DR	42.20292496	-87.79930563
567	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2022	2031	SHERIDAN RD	ON SHERIDAN RD ENTRANCE DOOR B9	42.18961609	-87.79650237
568	Hackberry	Celtis occidentalis	Planting Spring 2022	2031	SHERIDAN RD	ON SHERIDAN RD ENTRANCE DOOR B9	42.18965187	-87.79648627
569	Redbud	Cercis canadensis	Planting Spring 2020	2278	SHERIDAN RD	20' N OF DR	42.19397354	-87.79866146
570	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2021	2292	SHERIDAN RD	5' S OF DR	42.19412588	-87.7981417
571	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2020	2300	SHERIDAN RD	20' N OF DR	42.19445865	-87.79812782
572	Catalpa, Northern	Catalpa speciosa	Planting Spring 2022	2622	SHERIDAN RD	52' W OF SHERIDAN ON EDGECLIFF DR	42.20009491	-87.79777534
573	Honey Locust	Gleditsia triacanthos	Planting Fall 2019	1921	ST JOHNS AV	60' E OF ST JOHNS ON PARK AV	42.18734399	-87.79925702

574	Elm, New Horizon	Ulmus 'New Horizon'	Planting Spring 2019	2045	ST JOHNS AV	50 S OF EXIT	42.18962342	-87.79995488
575	Serviceberry	Amelanchier canadensis	Planting Spring 2019	2098	ST JOHNS AV	25' N OF DR	42.19072345	-87.80074203
576	Redbud	Cercis canadensis	Planting Spring 2020	2655	ST JOHNS AV	20' S OF DR	42.20082759	-87.80286813
577	Crabapple	Malus sp.	Planting Fall 2021	2787	ST JOHNS AV	80' S OF WALKER AV	42.20310104	-87.80399232
578	Serviceberry	Amelanchier canadensis	Planting Spring 2019	318	TEMPLE AV	25' E OF DR	42.20170683	-87.80496076
579	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	340	TEMPLE AV	60' E OF LOGAN ST	42.20154805	-87.80562931
580	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	340	TEMPLE AV	105' E OF LOGAN ST	42.20154507	-87.80563199
581	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	370	TEMPLE AV	10' W OF DR	42.20164384	-87.80652281
582	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2022	65	VINE AV	165' E OF WALK W/EGANDALE	42.19433371	-87.79193068
583	Oak, Shingle	Quercus imbricaria	Planting Spring 2022	65	VINE AV	80' E OF WALK W/EGANDALE	42.19427012	-87.79212916
584	London Planetree	Platanus x Acerifolia	Planting Spring 2022	65	VINE AV	125' E OF WALK W/EGANDALE	42.19429794	-87.79198969
585	Hackberry	Celtis occidentalis	Planting Spring 2022	65	VINE AV	200' E OF WALK W/EGANDALE	42.19435755	-87.79186094
586	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2021	128	VINE AV	101' W OF DR	42.19335015	-87.79327341
587	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	288	WALKER AV	40' E OF DR	42.20309701	-87.80513279
588	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	288	WALKER AV	8' E OF DR	42.20309729	-87.80513279
589	Hawthorn	Cretaeus sp.	Planting Spring 2020	308	WALKER AV	35' W OF DR	42.20306526	-87.80572865
590	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	2595	WAUKEGAN AV	15' W OF DR ON BLOOM	42.19974522	-87.80666332
591	Oak, Red	Quercus rubra	Planting Spring 2022	727	BALDWIN RD	60' W OF DR	42.16599738	-87.77754454
592	Redbud	Cercis canadensis	Planting Spring 2020	920	BALDWIN RD	20' N OF DR	42.16879779	-87.78217444
593	Elm, New Horizon	Ulmus 'New Horizon'	Planting Spring 2021	220	BEECH ST	25' S OF WALK ON LINCOLN AV S	42.1752541	-87.78223261
594	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	275	BEECH ST	15' W OF DR	42.17489416	-87.78396556
595	Redbud	Cercis canadensis	Planting Spring 2020	515	BEECH ST	20' W of Dr	42.17247078	-87.78829707
596	Hackberry	Celtis occidentalis	Planting Spring 2020	4	CB 7	130' S OF HAZEL ON W SIDE OF LOT	42.1829353	-87.79628165
597	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	4	CB 7	110' S OF HAZEL ON W SIDE OF LOT	42.18293331	-87.79628702
598	Hackberry	Celtis occidentalis	Planting Spring 2020	4	CB 7	90' S OF HAZEL ON W SIDE OF LOT	42.18293132	-87.79628702
599	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	4	CB 7	70' S OF HAZEL ON W SIDE OF LOT	42.18293132	-87.79628433
600	Hackberry	Celtis occidentalis	Planting Spring 2020	4	CB 7	50' S OF HAZEL ON W SIDE OF LOT	42.18293132	-87.79628702
601	Crabapple	Malus sp.	Planting Fall 2021	1424	FOREST AV	10' S OF DR	42.17839009	-87.78950228
602	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1470	FOREST AV	150' E OF FOREST AV ON SHERIDAN	42.17894323	-87.78880143
603	Oak, Bur	Quercus macrocarpa	Planting Spring 2022	1470	FOREST AV	10' N OF S DR ON FOREST AV	42.1789032	-87.78878232
604	Crabapple	Malus sp.	Planting Spring 2020	1506	FOREST AV	15' south of driveway at 1495 sheridan rd	42.17977361	-87.78945317
605	Serviceberry	Amelanchier canadensis	Planting Spring 2020	1665	FOREST AV	15' N OF DR	42.18266339	-87.78861105
606	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1590	HAWTHORNE LN	5' N OF S DR	42.18132614	-87.78777054

607	Crabapple	Malus sp.	Planting Spring 2022	757	JUDSON AV	30' N OF DR	42.16626123	-87.78152186
608	Serviceberry	Amelanchier canadensis	Planting Spring 2019	904	JUDSON AV	23' N OF DR	42.16871424	-87.78430325
609	Crabapple	Malus sp.	Planting Fall 2021	925	JUDSON AV	15' S OF DR	42.16936225	-87.78397728
610	Crabapple	Malus sp.	Planting Fall 2021	962	JUDSON AV	45' W OF JUDSON AV ON AVA ST	42.1697918	-87.78522038
611	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	962	JUDSON AV	70' W OF JUDSON AV ON AVA ST	42.16979098	-87.78522039
612	Oak, Red	Quercus rubra	Planting Spring 2021	1070	LINCOLN AV S	40' W OF LINCOLN AV S ON CEDAR AV	42.17172143	-87.77963677
613	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2021	1212	LINCOLN AV S	5' N of Dwy at 1202 Lincoln Ave S	42.17428465	-87.78221135
614	Baldcypress	Taxodium distichum	Planting Spring 2019	1232	LINCOLN AV S	5' N of Dr	42.17450611	-87.78242116
615	Oak, White	Quercus alba	Planting Fall 2021	1303	LINCOLN AV S	50' S OF DR	42.17657988	-87.7840471
616	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1332	LINCOLN AV S	15' N OF DR (PS)	42.17632488	-87.7867968
617	Tuliptree	Liriodendron tulipifera	Planting Spring 2019	1340	LINCOLN AV S	40' N OF DR	42.17647152	-87.7870721
618	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	1340	LINCOLN AV S	15' N OF DR	42.17647207	-87.7870721
619	Sweetgum	Liquidambar styraciflua	Planting Spring 2019	1370	LINCOLN AV S	25' S OF DR	42.17708283	-87.7882986
620	Elm, New Horizon	Ulmus 'New Horizon'	Planting Spring 2021	465	LINCOLN AV W	80' E OF DR	42.17805308	-87.79119597
621	Oak, Chinkapin	Quercus muehlenbergii	Planting Spring 2022	1125	LINDEN AV	37' S OF DR	42.17292229	-87.78215047
622	Crabapple	Malus sp.	Planting Fall 2021	1610	LINDEN AV	85' N OF RAVINE ON LINDEN AV	42.18171756	-87.79390125
623	Redbud	Cercis canadensis	Planting Spring 2021	434	MARSHMAN ST	65' S OF MARSHMAN ON JUDSON AV	42.16849865	-87.78299211
624	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	219	RAVINE DR	40' W OF DR	42.18197351	-87.78700123
625	Crabapple	Malus sp.	Planting Spring 2020	344	RAVINE DR	45' W OF DR	42.18110636	-87.78966994
626	Serviceberry	Amelanchier canadensis	Planting Spring 2019	416	RAVINE DR	15 W OF WALK	42.18124376	-87.79221756
627	Elm, New Horizon	Ulmus 'New Horizon'	Planting Spring 2021	751	RICE ST	15' N OF DR	42.16606813	-87.7764079
628	Redbud	Cercis canadensis	Planting Spring 2021	770	RICE ST	5' S OF FRONT WALK	42.16666654	-87.77743204
629	Serviceberry	Amelanchier canadensis	Planting Fall 2021	793	RICE ST	15' S OF DR	42.16682594	-87.77628684
630	Crabapple	Malus sp.	Planting Spring 2022	794	RICE ST	5' S OF DR	42.16687696	-87.77754868
631	Hawthorn	Crataegus sp.	Planting Spring 2020	281	ROGER WILLIAMS AV	20' S OF DR ON RICE ST	42.16603481	-87.77696418
632	Crabapple	Malus sp.	Planting Spring 2021	346	ROGER WILLIAMS AV	25' E OF DR	42.16516181	-87.77853946
633	Honey Locust	Gleditsia triacanthos	Planting Spring 2020	2	RV 1	25' N OF SWX PARKING LOT	42.16623136	-87.78347456
634	Honey Locust	Gleditsia triacanthos	Planting Spring 2020	2	RV 1	100' S OF NWX OF PARKING LOT	42.1662337	-87.78347355
635	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2020 (Morton Test Trees)	4	RV 1	40' N of Entrance, East side of Parking lot	42.16608455	-87.78348697
636	London Planetree	Platanus x Acerifolia	Planting Spring 2021	730	SHERIDAN RD	20' W OF DR ON ROGER WILLIAMS	42.16575213	-87.77295755
637	Redbud	Cercis canadensis	Planting Spring 2019	730	SHERIDAN RD	15' S OF S DR AT 750 SHERIDAN	42.16575268	-87.77295754
638	Crabapple	Malus sp.	Planting Spring 2020	1044	SHERIDAN RD	100' west of Sheridan on Cedar	42.17148305	-87.77794361
639	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1142	SHERIDAN RD	15' S OF DR	42.17295974	-87.77882251
640	Crabapple	Malus sp.	Planting Spring 2021	1166	SHERIDAN RD	10' N OF DR (D)	42.17339466	-87.77914174
641	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	1166	SHERIDAN RD	50' S OF DR	42.17339521	-87.77914173

642	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1330	SHERIDAN RD	35' N OF DR	42.1763468	-87.78246292
643	Baldcypress	Taxodium distichum	Planting Spring 2021	1375	SHERIDAN RD	25' S OF N DR	42.17819503	-87.78395359
644	Redbud	Cercis canadensis	Planting Spring 2019	1402	SHERIDAN RD	40' N OF DR	42.17749186	-87.78615652
645	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	1402	SHERIDAN RD	10' N OF DR	42.17749159	-87.78615652
646	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1415	SHERIDAN RD	10' S of Dr	42.17819712	-87.78655288
647	Redbud	Cercis canadensis	Planting Spring 2021	1492	SHERIDAN RD	15' N OF DR	42.17912763	-87.78993406
648	Crabapple	Malus sp.	Planting Spring 2021	1520	SHERIDAN RD	55' N OF LINDEN AV	42.17964923	-87.79234394
649	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	1528	SHERIDAN RD	20' N OF DR	42.17961736	-87.79302859
650	Hophornbeam	Ostrya virginiana	Planting Spring 2021	1532	SHERIDAN RD	8' S OF DR	42.17971406	-87.79350158
651	Crabapple	Malus sp.	Planting Fall 2021	1534	SHERIDAN RD	25' S OF DR	42.17984163	-87.79393759
652	Serviceberry	Amelanchier canadensis	Planting Spring 2019	1538	SHERIDAN RD	25' N OF DR FOR 1534 SHERIDAN RD	42.17999647	-87.79430079
653	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	861	ST JOHNS AV	15' S OF NEIGHBORS DR	42.16840989	-87.78457258
654	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	881	ST JOHNS AV	30' N OF DR	42.16869763	-87.78480869
655	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2021	893	ST JOHNS AV	20' N OF DR	42.16881635	-87.78511795
656	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	905	ST JOHNS AV	10' N OF DR	42.16903927	-87.78510082
657	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1055	ST JOHNS AV	Across Moroney Park along bike trail	42.1710382	-87.78766097
658	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1055	ST JOHNS AV	Across Moroney Park along bike trail	42.17091893	-87.78754831
659	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1055	ST JOHNS AV	Across Moroney Park along bike trail	42.17080363	-87.78744103
660	Hornbeam	Carpinus caroliniana	Planting Spring 2021	1170	ST JOHNS AV	70' S OF DR	42.17368035	-87.78955368
661	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2021	1170	ST JOHNS AV	60' S OF DR	42.17369356	-87.78958107
662	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	1277	ST JOHNS AV	20' S OF DR	42.17579975	-87.79029219
663	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	1319	ST JOHNS AV	35' S OF DR	42.17669515	-87.79056251
664	Crabapple	Malus sp.	Planting Spring 2021	1384	ST JOHNS AV	10' S OF DR	42.17751223	-87.79254256
665	London Planetree	Platanus x Acerifolia	Planting Spring 2021	1427	ST JOHNS AV	20' S OF DR	42.17852913	-87.79305861
666	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2021	1105	WADE ST	5' N OF DR	42.17240232	-87.78513142
667	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1116	WADE ST	10' S OF N DR	42.17252676	-87.78609245
668	Oak, Bur	Quercus macrocarpa	Planting Spring 2022	1160	WADE ST	120' W OF WADE ON BEECH ST	42.1731712	-87.78701005
669	Oak, Red	Quercus rubra	Planting Spring 2021	1160	WADE ST	160' W OF WADE ON BEECH ST	42.17317038	-87.78701006
670	Redbud	Cercis canadensis	Planting Spring 2021	1164	WADE ST	10' S OF FRONT WALK	42.1733672	-87.78755731
671	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	1177	WADE ST	10' S OF DR	42.17404324	-87.78806667
672	London Planetree	Platanus x Acerifolia	Planting Fall 2021	1181	WADE ST	40' W of Dr	42.17432966	-87.78837008
673	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	1187	WADE ST	55' S OF DR	42.17423476	-87.78868497
674	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2021	1346	WAVERLY RD	75' S OF DR @ 1355 SHERIDAN RD	42.17708025	-87.78180211
675	London Planetree	Platanus x Acerifolia	Planting Spring 2021	540	BELLEVUE PL	10' W OF THE DR	42.16744404	-87.78542066
676	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	605	BLACKSTONE PL	60' E OF DR	42.15988723	-87.78143451
677	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2021	374	BRAESIDE RD	10' W OF DR	42.15400741	-87.77091813
678	Honey Locust	Gleditsia triacanthos	Planting Spring 2020	403	CAROL CT	35' E OF DR	42.15694783	-87.77352316
679	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	406	CAROL CT	40' W OF DR	42.15640064	-87.77351618
680	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	406	CAROL CT	10' W OF DR	42.15640218	-87.77351149
681	Baldcypress	Taxodium distichum	Planting Spring 2021	507	CHEROKEE RD	25' E OF WALK	42.15501963	-87.77506199

682	Baldcypress	Taxodium distichum	Planting Spring 2021	600	CHEROKEE RD	15' N of Dr at 71 Indian Tree	42.15412684	-87.77709908
683	Serviceberry	Amelanchier canadensis	Planting Fall 2019	562	CLAVEY CT	5' S OF DR	42.16277637	-87.80540099
684	Crabapple	Malus sp.	Planting Fall 2019	562	CLAVEY CT	60' S OF DR	42.16277664	-87.80540098
685	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2020	576	CLAVEY CT	10' N OF DR	42.16306579	-87.80548212
686	Hackberry	Celtis occidentalis	Planting Spring 2020	551	CLAVEY LN	45' S OF DR	42.16285303	-87.80664094
687	Crabapple	Malus sp.	Planting Spring 2022	593	COUNTY LINE RD	40' E OF DR	42.152683	-87.77568673
688	Crabapple	Malus sp.	Planting Spring 2022	633	COUNTY LINE RD	10' E OF DR	42.15271522	-87.77678656
689	Crabapple	Malus sp.	Planting Spring 2022	633	COUNTY LINE RD	15' W OF DR	42.15271549	-87.77678656
690	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	355	DELL LN	40' S OF DR	42.15885805	-87.77096333
691	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	337	DELTA RD	10' S OF DR ON LINCOLNWOOD RD	42.15790057	-87.77233235
692	Catalpa, Northern	Catalpa speciosa	Planting Fall 2021	340	FLORA PL	15' E OF DR	42.15855033	-87.78151824
693	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2021	358	FLORA PL	20' N OF DR	42.15880334	-87.78178601
694	Honey Locust	Gleditsia triacanthos	Planting Spring 2020	372	FLORA PL	35' S OF DR	42.15911153	-87.78199651
695	Buckeye	Aesculus glabra	Planting Spring 2020	124	GREEN BAY RD	100' W of Hydrant on Marion Ave	42.15481124	-87.78019374
696	Honey Locust	Gleditsia triacanthos	Planting Spring 2020	251	GREEN BAY RD	40' E of Green Bay on Leslee Ln	42.15721501	-87.78123072
697	London Planetree	Platanus x Acerifolia	Planting Spring 2019	251	GREEN BAY RD	70' S OF DR	42.15720822	-87.78123629
698	Crabapple	Malus sp.	Planting Fall 2021	252	GREEN BAY RD	100' N OF DR	42.15687586	-87.78179634
699	River Birch	Betula nigra	Planting Spring 2021	277	GREEN BAY RD	20' S OF DR	42.15762935	-87.78150448
700	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	550	GROVELAND AV	10' S OF DR	42.16246411	-87.77510867
701	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	61	HASTINGS AV	5' S OF S DR	42.15353661	-87.78918235
702	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	321	HEDGE RUN	65' E OF DR	42.16093246	-87.77409576
703	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	332	HEDGE RUN	20' W OF walk	42.16047317	-87.77435494
704	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2019	332	HEDGE RUN	25' E OF GROVELAND AV	42.16047289	-87.77435494
705	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2021	332	HEDGE RUN	40' S OF HEDGE RUN ON GROVELAND	42.16047344	-87.77435494
706	Crabapple	Malus sp.	Planting Spring 2021	1330	HIAWATHA CT	15' S OF DR	42.15527541	-87.79875935
707	Redbud	Cercis canadensis	Planting Spring 2020	55	HIAWATHA TL	70' S OF DR AT 61	42.15356784	-87.79808335
708	Hackberry	Celtis occidentalis	Planting Fall 2019	55	HIAWATHA TL	20' S of firehydrant	42.1535761	-87.79808354
709	Sweetgum	Liquidambar styraciflua	Planting Spring 2022	67	HIAWATHA TL	7' N OF DR	42.1538968	-87.79810584
710	Filbert	Corylus colurna	Planting Spring 2019	830	HIGHLAND PL	15' E OF WALK	42.16054572	-87.7884485
711	Tuliptree	Liriodendron tulipifera	Planting Spring 2021	849	HIGHLAND PL	5' E OF DR	42.16007138	-87.78720391
712	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	849	HIGHLAND PL	15' E OF DR FOR 845	42.16007166	-87.78720391
713	London Planetree	Platanus x Acerifolia	Planting Spring 2021	857	HIGHLAND PL	10' W OF DR	42.16001059	-87.78663405
714	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2022	443	HILLSIDE DR	10' N OF DR (D)	42.16041814	-87.78588389
715	Crabapple	Malus sp.	Planting Spring 2022	475	HILLSIDE DR	10' N OF DR	42.16119383	-87.78637176
716	Crabapple	Malus sp.	Planting Fall 2019	525	HILLSIDE DR	10' N OF DR	42.16212053	-87.78716158
717	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2021	42	INDIAN TREE DR	25' N OF DR	42.15334857	-87.77727683
718	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	42	INDIAN TREE DR	30' N OF DR	42.15331712	-87.77727783
719	London Planetree	Platanus x Acerifolia	Planting Spring 2022	43	INDIAN TREE DR	10' E OF DR	42.15307769	-87.77673698
720	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	66	INDIAN TREE DR	15' N OF DR	42.15346574	-87.77736544
721	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	71	INDIAN TREE DR	35' S OF DR	42.15371164	-87.77674003
722	Catalpa, Northern	Catalpa speciosa	Planting Spring 2021	122	INDIAN TREE DR	15' S OF DR	42.15448305	-87.77814462

723	Hornbeam	Carpinus caroliniana	Planting Spring 2019	176	INDIAN TREE DR	40' E OF DR	42.15575465	-87.77698072
724	Katsuratree	Cercidiphyllum japonicum	Planting Spring 2021	266	IVY LN	20' W OF DR	42.15348596	-87.76782882
725	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	288	IVY LN	15' E OF DR	42.15362029	-87.7682084
726	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	523	KINCAID ST	15' S OF DR	42.16192662	-87.77925228
727	Hawthorn	Cretaegus sp.	Planting Spring 2020	580	KINCAID ST	5' S OF DR	42.16303617	-87.78024788
728	Crabapple	Malus sp.	Planting Spring 2021	605	KINCAID ST	40' N OF DR	42.16346373	-87.77922236
729	Catalpa, Northern	Catalpa speciosa	Planting Spring 2022	150	LAKESIDE PL	10' N OF DR	42.15510765	-87.77042177
730	Sweetgum	Liquiambar styraciflua	Planting Spring 2021	194	LAKESIDE PL	55' W OF LAKESIDE PL ON BROWNVILLE	42.15581949	-87.77038208
731	Oak, Swamp White	Quercus bicolor	Planting Spring 2021	372	LAKESIDE PL	15' N OF DR	42.15917405	-87.77031036
732	Redbud	Cercis canadensis	Planting Spring 2021	46	LAKEVIEW TR	130'E OF DR	42.15995861	-87.76632981
733	Redbud	Cercis canadensis	Planting Spring 2020	389	LAMBERT TREE AV	20' E OF DR	42.16024536	-87.77542553
734	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2019	445	LAMBERT TREE AV	15' W of Dr	42.15992068	-87.77700695
735	London Planetree	Platanus x Acerifolia	Planting Spring 2021	310	LARKSPUR DR	10' N OF DR	42.15824192	-87.80018218
736	Sweetgum	Liquiambar styraciflua	Planting Spring 2021	310	LARKSPUR DR	10' S OF DR	42.1582324	-87.80017579
737	Sweetgum	Liquiambar styraciflua	Planting Spring 2021	310	LARKSPUR DR	40' S OF DR	42.15823396	-87.80018486
738	Sweetgum	Liquiambar styraciflua	Planting Spring 2021	386	LARKSPUR DR	Between Drives	42.15952499	-87.80027239
739	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	386	LARKSPUR DR	TBD	42.15952611	-87.80027772
740	Sweetgum	Liquiambar styraciflua	Planting Spring 2021	283	LESLEE LN	BETWEEN DRIVES	42.15757854	-87.77992752
741	Oak, Swamp White	Quercus bicolor	Planting Spring 2022	128	LINCOLNWOOD RD	IN POLLINATOR GARDEN ALONG BIKE TRAIL	42.15436304	-87.77350121
742	Oak, Swamp White	Quercus bicolor	Planting Spring 2022	128	LINCOLNWOOD RD	IN POLLINATOR GARDEN ALONG BIKE TRAIL	42.15442667	-87.77357095
743	Oak, Swamp White	Quercus bicolor	Planting Spring 2022	128	LINCOLNWOOD RD	IN POLLINATOR GARDEN ALONG BIKE TRAIL	42.15464937	-87.77382844
744	Oak, Swamp White	Quercus bicolor	Planting Spring 2022	128	LINCOLNWOOD RD	IN POLLINATOR GARDEN ALONG BIKE TRAIL	42.15474481	-87.77392232
745	Oak, Swamp White	Quercus bicolor	Planting Spring 2022	128	LINCOLNWOOD RD	IN POLLINATOR GARDEN ALONG BIKE TRAIL	42.15454598	-87.7736702
746	Oak, Swamp White	Quercus bicolor	Planting Spring 2022	128	LINCOLNWOOD RD	IN POLLINATOR GARDEN ALONG BIKE TRAIL	42.15446644	-87.77352
747	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2019	160	LINCOLNWOOD RD	70' S OF HAVENWOOD AV	42.15534712	-87.77344893
748	Hackberry	Celtis occidentalis	Planting Spring 2019	160	LINCOLNWOOD RD	100' S OF HAVENWOOD AV	42.15534608	-87.77344158
749	Sweetgum	Liquiambar styraciflua	Planting Spring 2021	300	LINCOLNWOOD RD	35' N OF DELTA RD	42.15789467	-87.77300456
750	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2020	560	LYMAN CT	30' N OF DR	42.16258348	-87.77401033
751	Magnolia	Magnolia sp.	Planting Spring 2019	711	MARION AV	40' W OF DR	42.15452981	-87.78035242
752	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2022	711	MARION AV	10' E OF DR	42.15452921	-87.78035626
753	London Planetree	Platanus x Acerifolia	Planting Spring 2021	726	MARION AV	18' E OF DR	42.15390611	-87.78062905
754	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Fall 2019	726	MARION AV	10' E OF DR	42.15390639	-87.78062905

755	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2022	796	MARION AV	30' W OF DR (D)	42.15394101	-87.78271941
756	Crabapple	Malus sp.	Planting Spring 2019	894	MARION AV	5' W OF DR	42.1540117	-87.78543733
757	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	909	MARION AV	10' W OF DR	42.15454713	-87.7858015
758	Hackberry	Celtis occidentalis	Planting Fall 2019	1032	MARION AV	20' N OF WALK	42.15392939	-87.78921204
759	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2022	1032	MARION AV	30' S OF DR ON HASTINGS	42.15393641	-87.78921986
760	Japanese Tree Lilac	Syringa reticulata	Planting Fall 2019	1152	MARION AV	40' E OF MARQUETTE on Marion Ave	42.15403296	-87.79171342
761	Hackberry	Celtis occidentalis	Planting Spring 2022	1152	MARION AV	10' N OF FRONT WALK ON MARQUETTE LN	42.1540246	-87.79171253
762	Kentucky Coffeetree	Gymnocladus dioicus	Planting Fall 2019	665	MELODY LN	15' W OF DR	42.15835329	-87.78180504
763	Hackberry	Celtis occidentalis	Planting Spring 2020	1155	MELVIN DR	50 N OF MELVIN ON MARQUETTE	42.15370093	-87.79160171
764	Hawthorn	Cretaeus sp.	Planting Spring 2020	366	N DEERE PARK DR E	110' S OF N DEERE PK DR E ON N DEERE PK DR W	42.15890015	-87.76619816
765	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2020	374	N DEERE PARK DR E	5' S of Walk	42.15899116	-87.76723229
766	Elm, Accolade	Ulmus 'Accolade'	Planting Fall 2019	374	N DEERE PARK DR E	15' N OF DR	42.15899143	-87.76723229
767	Crabapple	Malus sp.	Planting Fall 2021	166	OAK KNOLL TR	40' S OF DR	42.1554576	-87.76754518
768	Serviceberry	Amelanchier canadensis	Planting Fall 2019	256	OAK KNOLL TR	95' W OF DR	42.15680422	-87.7679437
769	Sweetgum	Liquidambar styraciflua	Planting Spring 2021	440	OAKLAND DR	25' E OF DR	42.16021316	-87.77732629
770	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	41	PIERCE RD	ACROSS FROM DR	42.15307772	-87.77124214
771	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	149	PIERCE RD	10' S OF DR	42.15511629	-87.7710326
772	London Planetree	Platanus x Acerifolia	Planting Spring 2019	150	PIERCE RD	40' N OF FRONT WALK ON PIERCE RD	42.15493456	-87.77197189
773	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2019	150	PIERCE RD	100' S OF FRONT WALK ON PIERCE RD	42.15493863	-87.77197407
774	Filbert	Corylus colurna	Planting Spring 2019	150	PIERCE RD	125' S OF FRONT WALK ON PIERCE RD	42.15493371	-87.77198101
775	Filbert	Corylus colurna	Planting Spring 2019	143	PINE POINT DR	5' E OF DR	42.15469392	-87.766923
776	Elm, Morton Elm	Ulmus 'Accolade'	Planting Fall 2021	147	PINE POINT DR	30' E OF DR	42.1546933	-87.76656325
777	Crabapple	Malus sp.	Planting Spring 2022	190	PINE POINT DR	70' S OF DR	42.15573552	-87.76629487
778	Redbud	Cercis canadensis	Planting Spring 2020	627	RICE ST	10' S OF DR	42.16384243	-87.77653616
779	Serviceberry	Amelanchier canadensis	Planting Spring 2019	154	ROGER WILLIAMS AV	5' W OF E DR	42.16514614	-87.77321606
780	Dawn Redwood	Metasequoia glyptostroboides	Planting Spring 2022	510	ROGER WILLIAMS AV	BEHIND PARKING METER #0631	42.1647446	-87.78220789
781	Hackberry	Celtis occidentalis	Planting Spring 2022	510	ROGER WILLIAMS AV	60' S OF BIKE TRAIL ENTRANCE	42.16447224	-87.78197455
782	Hackberry	Celtis occidentalis	Planting Spring 2022	510	ROGER WILLIAMS AV	ACROSS FROM JENSEN PARK	42.16465912	-87.78215694
783	Oak, Chinkapin	Quercus muelenbergii	Planting Spring 2022	510	ROGER WILLIAMS AV	IN CENTER OF TRAIN STATION	42.16518597	-87.78260488
784	Honey Locust	Gleditsia triacanthos	Planting Spring 2022	510	ROGER WILLIAMS AV	SOUTH END OF LOT IN TURF	42.16485594	-87.7823152
785	Elm, Accolade	Ulmus 'Accolade'	Planting Spring 2021	189	S DEERE PARK DR	10' W OF DR	42.15258045	-87.76322651
786	Serviceberry	Amelanchier canadensis	Planting Fall 2019	189	S DEERE PARK DR	45' W OF DR	42.15258446	-87.76322212
787	London Planetree	Platanus x Acerifolia	Planting Spring 2021	325	SEVEN PINES CI	20' N OF DR	42.15850068	-87.80226435

788	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2021	325	SEVEN PINES CI	45' N OF DR	42.15849386	-87.80226165
789	Catalpa, Northern	Catalpa speciosa	Planting Fall 2019	366	SEVEN PINES CI	60' N OF DR	42.15928846	-87.80354686
790	Crabapple	Malus sp.	Planting Spring 2022	320	SHERIDAN RD	86' N OF ELDER LN	42.15816084	-87.76857438
791	Kentucky Coffeetree	Gymnocladus dioicus	Planting Spring 2022	401	SHERIDAN RD	50' S OF DR	42.15986669	-87.76843274
792	Sweetgum	Liquiambar styraciflua	Planting Spring 2022	406	SHERIDAN RD	10' N OF DR ON LAKESIDE PL	42.15945741	-87.7703609
793	Oak, Swamp White	Quercus bicolor	Planting Spring 2019	419	SHERIDAN RD	75' E OF LAMBERTREE AV	42.16002338	-87.77231157
794	Serviceberry	Amelanchier canadensis	Planting Spring 2019	700	SHERIDAN RD	40' S OF DR	42.16503668	-87.77295551
795	Baldcypress	Taxodium distichum	Planting Spring 2021	888	STONE GATE DR	25' W OF DR	42.15523183	-87.78613544
796	Elm, New Horizon	Ulmus 'New Horizon'	Planting Spring 2021	888	STONE GATE DR	50' W OF DR	42.15523155	-87.78613545
797	Hackberry	Celtis occidentalis	Planting Fall 2019	875	TIMBER HILL RD	25' E OF CUL-DE-SAC	42.15689006	-87.78537562
798	Honey Locust	Gleditsia triacanthos	Planting Fall 2019	887	TIMBER HILL RD	20' S OF DR	42.15684036	-87.78620697
799	Horsechestnut	Aesculus x carnea 'Ft. McNair'	Planting Spring 2021	11	TURNBULL WOODS CT	10' W OF W DR ON COUNTY LINE RD	42.15275937	-87.78585895
800	Baldcypress	Taxodium distichum	Planting Spring 2021	55	WINONA RD	10' N OF N DR	42.15286547	-87.7957297
801	Japanese Tree Lilac	Syringa reticulata	Planting Spring 2019	251	WOODLAND RD	20' E OF DR	42.1635423	-87.77430341
802	Crabapple	Malus sp.	Planting Spring 2021	265	WOODLAND RD	40' E OF DR	42.16362866	-87.77488377
803	Crabapple	Malus sp.	Planting Spring 2022	389	WOODLAND RD	10' E OF W DR	42.16235818	-87.77751443
804	Crabapple	Malus sp.	Planting Spring 2022	411	WOODLAND RD	50' W OF DR	42.16201298	-87.77775891
805	Crabapple	Malus sp.	Planting Spring 2022	481	WOODLAND RD	10' S OF N DR ON ST JOHNS AV	42.16174396	-87.77904548
806	Crabapple	Malus sp.	Planting Spring 2022	481	WOODLAND RD	25' S OF N DR ON ST JOHNS AV	42.16174314	-87.77904549
807	Crabapple	Malus sp.	Planting Spring 2022	481	WOODLAND RD	40' S OF N DR ON ST JOHNS AV	42.16174369	-87.77904549
808	Crabapple	Malus sp.	Planting Spring 2022	481	WOODLAND RD	50' S OF N DR ON ST JOHNS AV	42.16174341	-87.77904549
809	Honey Locust	Gleditsia triacanthos	Planting Spring 2021	94	LEONARD WOOD S	25' W OF WALK	42.21744627	-87.80910618

Social Impacts

City Forest Carbon Project

Social Impacts



UN Sustainable Development Goals

The 17 United Nations Sustainable Development Goals (SDGs) are an urgent call for action and global partnership among all countries, representing key benchmarks for creating a better world and environment for everyone. Well-designed and managed urban forests make significant contributions to the environmental sustainability, economic viability and livability of cities. They help mitigate climate change and natural disasters, reduce energy costs, poverty and malnutrition, and provide ecosystem services and public benefits. See more details in the CFC Carbon Project Social Impact Reference Guide.

Instructions

This template sets out all relevant SDGs and lists various urban forest project activities that fall within each SDG. Evaluate the SDGs to determine how your carbon project provides social impacts that may contribute towards achievement of the global goals. Check the box(es) that contain one of your project activities and describe in no fewer than two sentences how your project activities align with the corresponding SDG. On page 12, select the icon for three to five of the most relevant SDGs to your project and provide any additional information.

SDG 3 - Good Health and Well Being

Goal: Ensure healthy lives and promote well-being for all at all ages.

Examples of project activities include, but are not limited to:

- ☒ Plant or protect trees to reduce or remove air pollutants
- ☐ If planting trees, select trees for reduced pollen counts and irritant production
- ☒ Plant or protect trees to create shade, provide UV exposure protection, reduce extreme heat negative effects, and/or reduce temperatures to relieve urban heat effects
- ☒ Design project to buffer sounds, optimize biodiversity, or create nature experiences
- ☐ Locate project near vulnerable populations, such as children or elderly
- ☐ Locate project near high volume roads to screen pollutants
- ☒ Locate project near people to encourage recreation, provide new parks or green space, or otherwise promote an active lifestyle
- ☐ Locate project near schools, elderly facilities, or mental health services to promote nature-based wellness, attention restoration, or other mental well-being
- ☐ Locate project in area with conditions of project-defined high inequity to trees, such as at schools, affordable or subsidized housing, formerly redlined neighborhoods, areas with high property vacancy rates, or area with high proportion of renters
- ☒ Reduce stormwater runoff or improve infiltration rates
- ☐ Design project to reduce human exposure to specific pollutants or toxins
- ☐ Other

Trees planted as part of the City of Highland Park-Urban Forest Rejuvenation initiative were installed within ~200 rights-of-way within the municipal boundaries of Highland Park, IL. These street trees provide substantial value to the community in terms of financial, ecological, and aesthetic benefits. On a broad scale, the urban forest serves to reduce air pollution and heat island effects as well as tempers the impacts of climate change and escalating meteorological extremes. Furthermore, in addition to sequestering carbon within the tissues of the tree itself, street tree planting makes pedestrian travel throughout the community a more viable alternative to motor vehicle traffic. Facilitating options such as walking or biking, rather than fossil-fuel dependent locomotion.

Oak trees were planted along Highland Park's McClory Bike Trail as part of a native restoration and invasive species removal initiative. This is a popular recreational bike path that transects the Highland Park; connecting the surrounding lake front municipalities on the North Shore of Chicago.

SDG 6 - Clean Water and Sanitation

Goal: Ensure availability and sustainable management of water and sanitation for all

Examples of project activities include, but are not limited to:

- ☐ Research and assess environmental injustices related to water in project area
- ☒ Locate project near high-traffic roads or to otherwise improve, mitigate, or remediate toxic landscapes near water
- ☐ Protect or plant trees to improve historically or culturally important sites related to water that have been degraded and/or neglected
- ☒ Reduce stormwater by planting or protecting trees
- ☐ Plant forested buffers adjacent to streams, rivers, wetlands, or floodplains
- ☒ Prevent soil erosion by protect steep slopes
- ☐ Improve infiltration rates
- ☐ Improve, mitigate, or remediate toxic landscapes and human exposure to risk
- ☐ Drought resistance, such as selecting appropriate water-efficient trees for project climate zone
- ☐ Other

Trees were planted on parkways and served to mitigate undesirable impacts of roadways. This includes softening the landscape as well as improving storm water runoff and soil infiltration rates. Trees along the McClory Bike Trail were planted to rehabilitate the landscape, replacing invasive species, and stabilize soils with significant topography.

SDG 8 - Decent Work and Economic Growth

Goal: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all

Examples of project activities include, but are not limited to:

- ☐ Community participation in project implementation, including such things as providing access to financial resources for ongoing community-based care
- ☐ Emphasize local hiring and support small businesses
- ☐ Promote local economic opportunities through workforce training, career pathway development, or other employment
- ☐ Other

SDG 10 - Reduced Inequalities

Goal: Reduce inequalities within and among countries

Examples of project activities include, but are not limited to:

- ☐ Provide connections and cohesion for social health, such as create or reinforce places that promote informal interactions, engage local residents and users in tree management, include symbolic or cultural elements, or other events
- ☐ Research, understand, and design to address understand historic and current sociocultural inequities, community health conditions, environmental injustices, or prior local greening efforts in community
- ☐ Locate project near vulnerable populations, such as children or elderly, to provide air quality improvements or buffer against extreme heat effects
- ☒ Locate project in high-density residential areas or where there is a lack of trees to improve access and promote an active lifestyle
- ☐ Locate project near schools, elderly facilities, or mental health services to promote nature-based wellness, attention restoration, or other mental well-being
- ☐ Locate project in area with conditions of project-defined high inequity to trees, such as at schools, affordable or subsidized housing, formerly redlined neighborhoods, areas with high property vacancy rates, or area with high proportion of renters
- ☒ Locate project near high-traffic roads or to otherwise improve, mitigate, or remediate toxic landscapes
- ☐ Protect or plant trees to improve historically or culturally important sites that have been degraded and/or neglected
- ☐ Community engagement in project design, including such things as engaging and respecting existing relationships and social networks, community cultural traditions, and public participation methods that are empowering and inclusive
- ☒ Community participation in project implementation, including such things as addressing and removing barriers to participation, promote ongoing community-based care and access to financial resources
- ☐ Emphasize local hiring and support small businesses
- ☐ Research and consider potential for gentrification and displacements
- ☐ Promote local economic opportunities through workforce training, career pathway development, or other employment
- ☐ Other

Trees planted, as part of this initiative, served to repopulate the urban forest in the wake of mature tree canopy loss. Primarily in the wake of exotic disease and pest infestations such as Emerald Ash Borer and Dutch Elm Disease. Additional mortality in parkway trees has been realized by climate change-driven weather and environmental effects; such as extreme storm water events and temperature fluctuations.

In response, the City of Highland Park sought to restore trees within parkways. These trees will serve to promote active recreation and reduce the reliance on motor vehicles as well as mitigating conditions endemic to urban life; such as air pollution, noise, and heat island effects.

The City also partnered with local middle school and high school students to plant oaks along the McClory Bike path. Staff used the opportunity to teach on the importance of native species to the ecosystem as well as proper tree planting practices.

SDG 11 - Sustainable Cities and Communities

Overall: Make cities inclusive, safe, resilient, and sustainable.

Examples of project activities include, but are not limited to:

- ☒ Plant or protect trees to reduce or remove air pollutants
- ☐ If planting trees, select trees for reduced pollen counts and irritant production
- ☒ Locate project near high volume roads to screen pollutants
- ☐ Locate project near vulnerable populations, such as children or elderly
- ☒ Plant or protect trees to create shade, provide UV exposure protection, reduce extreme heat negative effects, and/or reduce temperatures to relieve urban heat effects
- ☒ Locate project near people to encourage recreation, provide new parks or green space, or otherwise promote an active lifestyle
- ☐ Design project to improve wellness and mental health, such as planting trees to buffer sounds, optimize biodiversity, optimize views from buildings, or create nature experiences
- ☐ Locate project near schools, elderly facilities, or mental health services to promote nature-based wellness, attention restoration, or other mental well-being
- ☐ Provide connections and cohesion for social health, such as create or reinforce places that promote informal interactions, engage local residents and users in tree management, include symbolic or cultural elements, or other events
- ☐ Research, understand, and design to address understand historic and current sociocultural inequities, community health conditions, environmental injustices, or prior local greening efforts in community
- ☐ Locate project in area with conditions of project-defined high inequity to trees, such as at schools, affordable or subsidized housing, formerly redlined neighborhoods, areas with high property vacancy rates, or area with high proportion of renters
- ☐ Community engagement in project design, including such things as engaging and respecting existing relationships and social networks, community cultural traditions, and public participation methods that are empowering and inclusive
- ☒ Community participation in project implementation, including such things as addressing and removing barriers to participation, promote ongoing community-based care and access to financial resources
- ☐ Other

Trees planted, as part of this initiative, served to repopulate the urban forest in the wake of mature tree canopy loss. Primarily in the wake of exotic disease and pest infestations such as Emerald Ash Borer and Dutch Elm Disease. Additional mortality in parkway trees has been realized by climate change-driven weather and environmental effects; such as extreme storm water events and temperature fluctuations.

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The City also partnered with local middle school and high school students to plant oaks along the McClory Bike path. Staff used the opportunity to teach on the importance of native species to the ecosystem as well as proper tree planting practices.

SDG 12 - Responsible Production and Consumption

Goal: Ensure sustainable consumption and production patterns

Examples of project activities include, but are not limited to:

- ☒ Plant or protect trees to create shade or reduce temperatures to relieve urban heat effects
- ☒ Provide cooling benefits and energy savings by shading impervious surfaces such as streets or parking lots, or planting trees on south and west sides of buildings
- ☐ Other

Beyond carbon sequestration, the City of Highland Park-Urban Forest Rejuvenation program will restore over story canopy to the City; helping to mitigate urban heat island effects.

SDG 13 - Climate Action

Goal: Take urgent action to combat climate change and its impacts.

Examples of project activities include, but are not limited to:

- ☒ Plant or protect trees to reduce or remove air pollutants
- ☒ Plant or protect trees to create shade or reduce temperatures to relieve urban heat effects
- ☒ Promote community capacity for social and climate resilience by engaging local residents or users in tree management, or other events to connect people to the project
- ☐ Reflect cultural traditions and inclusive engagement for climate resilience
- ☐ Design project to improve soil health
- ☐ Provide cooling benefits and energy savings by shading impervious surfaces such as streets or parking lots, or planting trees on south and west sides of buildings
- ☒ Plant or protect trees to reduce stormwater runoff
- ☐ Select water-efficient trees for climate zone and drought resistance
- ☐ Create and/or enhance wildlife habitat
- ☐ Other

Trees planted as part of the City of Highland Park-Urban Forest Rejuvenation initiative were installed within ~200 rights-of-way within the municipal boundaries of Highland Park, IL. These street trees provide substantial value to the community in terms of financial, ecological, and aesthetic benefits. On a broad scale, the urban forest serves to reduce air pollution and heat island effects as well as tempers the impacts of climate change and escalating meteorological extremes. Furthermore, in addition to sequestering carbon within the tissues of the tree itself, street tree planting makes pedestrian travel throughout the community a more viable alternative to motor vehicle traffic. Facilitating options such as walking or biking, rather than fossil-fuel dependent locomotion.

In addition to serving as habitat and forage for wildlife, parkway trees also serve to intercept storm water; slowing decent rates and overland flow and allowing for great soil infiltration. Greater infiltration means less runoff to carry pollutants into Lake Michigan and its tributaries. By increasing diversity in our urban forest, we are making it more resilient to novel insect and pest introductions, but also facilitating habitat for a wide variety of native fauna.

SDG 14 - Life Below Water

Goal: Conserve and sustainably use the oceans, seas and marine resources for sustainable development.

Examples of project activities located in areas with marine ecosystems include, but are not limited to:

- ☒ Locate project near high-traffic roads or to otherwise improve, mitigate, or remediate toxic landscapes near water
- ☒ Plant or protect trees in project areas to reduce stormwater runoff
- ☐ Plant forested buffers adjacent to streams, rivers, wetlands, or floodplains
- ☐ Prevent soil erosion into by protecting steep slopes
- ☐ Improve infiltration rates
- ☒ Improve, mitigate, or remediate toxic landscapes and human exposure to risk
- ☐ Drought resistance, such as selecting appropriate water-efficient trees for project climate zone
- ☒ Enhance wildlife habitat, such as riparian habitat for fish, birds, and other animals
- ☐ Other

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SDG 15 - Life on Land

Goal: Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss.

Examples of project activities include, but are not limited to the following with increased functionality of green infrastructure:

- ☒ Plant or protect trees to reduce stormwater runoff
- ☐ Select water-efficient trees for climate zone and drought resistance
- ☒ Create and/or enhance wildlife habitat to improve local biodiversity
- ☐ Plant forested buffers adjacent to streams, rivers, wetlands, or floodplains
- ☐ Prevent soil erosion by protect steep slopes
- ☐ Improve infiltration rates
- ☐ Other

Trees planted as part of the City of Highland Park-Urban Forest Rejuvenation initiative were installed within ~200 rights-of-way within the municipal boundaries of Highland Park, IL. These street trees provide substantial value to the community in terms of financial, ecological, and aesthetic benefits. On a broad scale, the urban forest serves to reduce air pollution and heat island effects as well as tempers the impacts of climate change and escalating meteorological extremes. Furthermore, in addition to sequestering carbon within the tissues of the tree itself, street tree planting makes pedestrian travel throughout the community a more viable alternative to motor vehicle traffic. Facilitating options such as walking or biking, rather than fossil-fuel dependent locomotion.

In addition to serving as habitat and forage for wildlife, parkway trees also serve to intercept storm water; slowing decent rates and overland flow and allowing for great soil infiltration. Greater infiltration means less runoff to carry pollutants into Lake Michigan and its tributaries. By increasing diversity in our urban forest, we are making it more resilient to novel insect and pest introductions, but also facilitating habitat for a wide variety of native fauna.

SDG 17 - Partnerships for the Goals

Overall: Strengthen the means of implementation and revitalize the global partnership for sustainable development.

Examples of project activities include, but are not limited to:

- ☒ Promote community connections and capacity for social resilience by engaging local residents or users in tree management, or other events to connect people to the project
- ☐ Community engagement in project design, including such things as engaging and respecting existing relationships and social networks, community cultural traditions, and public participation methods that are empowering and inclusive
- ☐ Community participation in project implementation, including such things as addressing and removing barriers to participation, promote ongoing community-based care and access to financial resources
- ☐ Other

Part of the City of Highland Park-Urban Forest Rejuvenation project included trees planted with the help of local volunteer groups affiliated with Highland Park High School, Northwood Middle School, Rotary Club, and the Boy Scouts of America.

Summary of Project Social Impacts



Trees planted as part of the City of Highland Park - Urban Forest Rejuvenation Initiative were installed within 200 rights-of-way within the municipal boundaries of Highland Park, IL. These street trees provide substantial value to the community in terms of financial, ecological, and aesthetic benefits. On a broad scale, the urban forest serves to reduce air pollution and heat island effects as well as tempers the impacts of climate change and escalating meteorological extremes. Furthermore, in addition to sequestering carbon within the tissues of the tree itself, street tree planting makes pedestrian travel throughout the community a more viable alternative to motor vehicle traffic. Facilitating options such as walking or biking, rather than fossil-fuel dependent locomotion.

Oak trees were planted along Highland Park's McClory Bike Trail as part of a native restoration and invasive species removal initiative. This is a popular recreational bike path that transects the Highland Park; connecting the surrounding lake front municipalities on the North Shore of Chicago.



Trees planted within parkways will repopulate the urban forest in the wake of mature tree canopy loss due to exotic disease and pest infestations such as Emerald Ash Borer and Dutch Elm Disease. Additional mortality in parkway trees has been realized by climate change-driven weather and environmental effects; such as extreme storm water events and temperature fluctuations. These trees will serve to promote active recreation and reduce the reliance on motor vehicles as well as mitigating conditions endemic to urban life; such as air pollution, noise, and heat island effects.

The City also partnered with local middle school and high school students to plant oaks along the McClory Bike path. Staff used the opportunity to teach on the importance of native species to the ecosystem as well as proper tree planting practices.



Street trees provide substantial value to the community in terms of financial, ecological, and aesthetic benefits. In addition to serving as habitat and forage for wildlife, parkway trees also serve to intercept storm water; slowing decent rates and overland flow and allowing for great soil infiltration. Greater infiltration means less runoff to carry pollutants into Lake Michigan and its tributaries. By increasing diversity in our urban forest, we are making it more resilient to novel insect and pest introductions, but also facilitating habitat for a wide variety of native fauna.