Camp Lakota Woodland
Project Design Document

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INSTRUCTIONS

Project Operators must complete and submit this Project Design Document (PDD) to request credits. City Forest Credits (CFC) then reviews this PDD as part of the validation process along with all other required project documents. An approved third-party verifier then does an independent check of all documents and compliance with the Protocol known as verification.

The Protocol Requirements at the end of this document are a list of eligibility requirements for informational purposes which are also found in more detail in the CFC Tree Preservation Protocol Version 12.40, dated February 22, 2023.

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

Below is a list of documents that are needed to complete a successful project:

- *Geospatial Location Map*
- *Regional Map*
- *Project Area Map*
- *Proof of Land Ownership or Agreement to Transfer Credits*
- *Preservation Commitment*
- *Land Use Regulations*
- *Land Use/Zoning Map*
- *Overlay Zones or Restrictions*
- *Threat of Loss Demonstration*
- *Attestation of No Double Counting and No Net Harm*
- *Attestation of Additionality*
- *Carbon Quantification Calculator*
- *Plot Sampling Map (if relevant)*
- *Sampling Raw Data*
- *Carbon Biomass calculations*
- *i-Tree Eco file*
- *Forest Composition*
- *Co-Benefit Quantification Calculator*
- *iTree Canopy Report*
- *Social Impacts*

PROJECT OVERVIEW

Project Name: Camp Lakota Woodland
Project Number: 046
Project Type: Preservation Project (under the Tree Preservation Protocol – version 12.40, dated February 22, 2023)
Credit Commencement Date: November 21, 2023
Project Location: Unincorporated McHenry County IL

Project Operator Name: McHenry County Conservation Foundation
Project Operator Contact Information:
Shawna Flavell
sflavell@mchenryconservation.org
815-338-6228

Project Description:
Describe overall project details and goals as summarized in application. Include information about where the Project is located, Project Area acreage and other relevant background. If the Project Area is part of a larger program or preservation effort, include one sentence with more information (2 paragraphs).

As part of the Chicago Region Carbon Program, the McHenry County Conservation Foundation and the McHenry County Conservation District has preserved 70.3 acres of primarily 100 – 200 year old oak and hickory woodland at the former Camp Lakota in Unincorporated McHenry County IL. These woodlands contain significant stands of white, red, and bur oaks, with some limited numbers of hills oak, swamp white oak, and pine plantation.

The project area was acquired by the McHenry County Conservation Foundation on June 25, 2021. It is expected to be transferred to the McHenry County Conservation District by 2026. The project area is zoned A1 agriculture.

DEFINING THE PROJECT AREA (Section 1.3 and 1.4)

Project Area Location
Describe the city, town, or jurisdiction where the Project is located. State which urban location criteria is met from Protocol Section 1.3.

Project is located in the Metropolitan Planning Agency area of Chicago Metropolitan Agency for Planning (CMAP), Unincorporated McHenry County, IL 60098.

Project Area Parcel Information
List parcel(s) in the Project Area.

Municipality	Parcel Number	Notes

		Include total acres and acres included in Project Area
Woodstock	07-28-200-003	Portion of parcel included in Project Area – 15 acres out of 19.24 acres
Woodstock	07-27-100-001	Portion of parcel included in Project Area – 20.3 acres out of 30.76 acres
Woodstock	07-27-100-003	Portion of parcel included in Project Area – 35 acres out of 40 acres
	Total Project Area	70.3 acres out of 90 acres

Project Area Maps
Provide three maps of the Project Area that illustrate the location: geospatial location, regional, and detailed. Maps should include project title, relevant urban or town boundaries, defined Project Area, and legend.

- Geospatial Location Map
  Show the boundaries of the Project Area in a KML, KMZ, or shapefile format
  Attachment: 1 Camp Lakota Project Area Shapefile

- Regional Map
  Show where the Project Area is located in relation to the state and/or region
  Attachment: 2 Camp Lakota Regional Map

- Detailed map of Project Area
  Show the Project Area and parcel boundaries.
  Attachment: 3 Camp Lakota Project Area Map

OWNERSHIP OR ELIGIBILITY TO RECEIVE POTENTIAL CREDITS (Section 1.5)

Project Operator must demonstrate ownership of potential credits or eligibility to receive potential credits. If Project Operator is the landowner, attach a deed showing ownership and explanation of when the property was acquired. If the Project Operator is not the landowner, provide the Agreement between Project Operator and landowner authorizing Project Operator to execute this project.

Name of landowner of Project Area and explanation
McHenry County Conservation Foundation

Attachment: 4 Camp Lakota Deed

PROJECT DURATION (Section 2.2)

Project Operator commits to the 40- or 100-year project duration requirement through a signed Project Implementation Agreement with City Forest Credits and agrees to the statement below.

Project Operator has committed to the 40-year project duration and signed a Project Implementation Agreement with City Forest Credits on August 18, 2023.

PRESERVATION COMMITMENT (Section 4.1)

Describe the Preservation Commitment terms and attach a complete copy of the recorded document. If Project Area does not have the same boundaries as Preservation Commitment, please state the reasons why.

Preservation Term: 40 years

Date recorded: November 21, 2023

Preservation Commitment Explanation: Declarant intends for this Declaration to preserve the trees on the Property for a period of 40 years from the date of this Declaration. It understands that this Declaration will bar the clearing or removing of trees for parking lots, picnic shelters, playfields, visitor centers, or any reason other than forest health, hazard, disease, fire, and small, non-motorized recreational trails.

Attachment: 5 Camp Lakota Deed Restriction

DEMONSTRATION OF THREAT OF LOSS (Section 4.2, 4.3, and 4.4)

Demonstrating the Threat of Loss is shown in several ways: land use designation that allows a non-forest use, overlay zones, existing restrictions, and one of three conditions that illustrate pressure to convert the Project Area to a non-forest use.

Land use designation

Describe the land use designation, including what types of non-forest use it allows. Attach a copy of the relevant land use designations, which may include development regulations such as zoning ordinances. Include a map depicting the designation of the relevant municipality, with the Project Area boundaries clearly indicated on the map.

The project area is zoned A1 agriculture. The intent of the A-1 Agriculture District is to permit agricultural purposes and activities. Residences are allowed on large agricultural parcels within the County. The standards of the A-1 District promote the continuation of farming and protect agricultural land uses from the encroachment of incompatible uses.

Attachment: 6 Camp Lakota Land Use Regulations, 7 Camp Lakota Land Use Zoning Map

Overlay zones or other restrictions

Describe any overlay zones that prohibit development or forest clearance such as critical areas, wetlands, or steep slopes and their protection buffers. Describe any legal encumbrances or other pre-existing tree/forest restrictions that may have hindered removal of the Project Trees (in the pre-Preservation Commitment condition). If present, attach a copy of the applicable restriction and a map depicting the overlay boundaries, with the Project Area boundaries clearly indicated on the map.

There are several acres of wetland on the project site and a pipeline right-of-way. Neither would hinder the removal of the project trees and were not included in the proposed project area acreage.

The wetland boundaries mapped are slightly different than the National Wetland Inventory. The wetland boundaries used were delineated through aerial photographic interpretation, local hydric soil information, and natural community boundaries determined through site visits. The aerial photographic boundaries were completed by Gabe Powers, a Certified Wetland Specialist for McHenry County, Illinois with experience in both US Army Corps 1987 manual wetland determinations and US Department of Agriculture 1997 Illinois wetland mapping conventions for farmed wetland determinations conducted through aerial photographic interpretation and site visits.

The Project Area includes a Sensitive Aquifer Recharge Area (SARA) district overlay. However, there are no impacts to the carbon quantification calculations for this project because the ordinance does not restrict agricultural activities, including annual plowing.

Attachment: 8 Camp Lakota Overlay Zones

Threat of loss demonstration (Section 4.4 A, B, or C)

Describe one of the three threat of loss conditions that are applicable prior to the Preservation Commitment. Provide supporting evidence such as maps, sale or assessed value documentation, or appraisal information.

A) Developed or improved uses surrounding at least 30% of perimeter of Project Area
- *A map depicting the Project Area with parcel boundaries, perimeter of developed or improved uses, and calculation of the border with these uses*

B) Sold, conveyed, or assessed in past three years at value greater than $8K/acre for bare land
- *A settlement statement, assessor statement, or other evidence of land transaction*

C) Fair market value higher after conversion to a non-forested use
- *A "highest and best use" study from a state certified general real estate appraiser stating that the Project Area Would have a fair market value after conversion to a non-forested "highest and best use" greater than the fair market value after preservation]*

Developed or improved uses surrounding at least 30% of perimeter of Project Area. 57.38% of the Parcel boundary is surrounded by a developed use.

Attachment: 9 Camp Lakota Threat of Loss Demonstration

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. Provide a map that includes both the Project Area and the closest registered urban forest Preservation Project based on the registered urban forest preservation database KML/Shapefile provided by CFC to demonstrate that the Project does not overlap with any existing urban forest carbon projects.

Project Operator has mapped the Project Area against the registered urban forest preservation project database and determined that there is no overlap of Project Area with any registered urban forest preservation carbon project. We evaluated the 10-mile radius around the project and two previous Preservation projects fall within this buffer area including Crowley Oaks Conservation Area and Thompson Road Oak Woods, both completed by the Land Conservancy of McHenry County. There is no overlap between the current Project Area and the project areas of the two previous projects, Crowley Oaks and Thompson Road Oak Woods.

Project Operator has signed the Attestation of No Double Counting of Credits and No Net Harm on October 12, 2023.

Attachment: 10 Camp Lakota Attestation of No Double Counting of Credits & No Net Harm, 11 Camp Lakota No Double Counting Map

ADDITIONALITY (Section 6)

Additionality is demonstrated by the Project in several ways, as described in the City Forest Credits Standard Section 4.9.1 and Tree Preservation Protocol.

Project Operator demonstrates that additionality was met through the following:

- Prior to this project, the trees in the Project Area were not protected via easement or recorded encumbrance or in a protected zoning status that preserves the trees
    - See Demonstration of Threat of Loss section above
- The land use designation/zoning in the Project Area must currently allow for a non-forest use
    - See Demonstration of Threat of Loss section above
- The trees in the Project Area face some threat risk of removal or conversion out of forest
    - See Demonstration of Threat of Loss section above
- The Project Operator records in the public land records an easement, covenant, or deed restriction specifically protecting the trees for the project duration of 40 years or 100 years (40 or 100 years depending on the Protocol version)
    - See Preservation Commitment section above

Taken together, the above elements allow crediting only for unprotected trees at risk of removal, which are then protected by a Project action of preservation, providing additional avoided GHG emissions.

Additionality is also embedded in the quantification methodology. Projects cannot receive credits for trees that would have remained had development occurred, nor can they receive soil carbon credits for

soil that would have been undisturbed had development occurred. Leakage is prevented by a deduction for displaced development in Protocol Section 11.4.

Project Operator has signed an Attestation of Additionality.

Attachment: 12 Camp Lakota Preservation Attestation of Additionality

CARBON QUANTIFICATION DOCUMENTATION (Section 11)

Follow detailed instructions in the Protocol for conducting quantification and use the Carbon Quantification Calculator to show calculations. CFC will provide the Carbon Quantification Calculator and Forest Composition Report Template. Ensure that your requested credit issuance schedule (issuance dates) is accurate and complete in the calculator. Project Operators should describe and appropriately reflect in their carbon quantification any and all planned future activities that may affect the percent canopy or carbon stocking.

Summary numbers from Carbon Quantification Calculator

Project Area (acres)	**70.3**
Does carbon quantification use stratification (yes or no)	**No**
Accounting Stock (tCO_2e)	**10,365**
On-site avoided biomass emissions (tCO_2e)	**9,328**
On-site avoided soil carbon emissions (tCO_2e)	**7,592**
Deduction for displaced biomass emissions (tCO_2e)	**1,707**
Deduction for displaced soil emissions (tCO_2e)	**2,300**
Credits from avoided biomass emissions (tCO_2e)	**7,621**
Credits from avoided soil emissions (tCO_2e)	**5,292**
Total credits from avoided biomass and soil emissions (tCO_2e)	**12,913**
Credits attributed to the project (tCO_2e), excluding future growth	**12,913**
Contribution to Registry Reversal Pool Account	**1,291**
Total credits to be issued to the Project Operator (tCO_2e) *(excluding future growth)*	**11,622**

GHG Assertion:
Project Operator asserts that the Project results in GHG emissions mitigation of 11,622 tons CO_2e issued to the project.

Approach to quantifying carbon
Describe the forest conditions and general approach used to quantify carbon (e.g., 11.1.B with full inventory, i-Tree Eco plots, other). Attach the Carbon Quantification Calculator.

Davey Resource Group (DRG) provided on-site plot-sample inventory work to determine the carbon stock. DRG conducted a sample forest assessment adhering to the standards set in CFC Tree Preservation Protocol Section 11.1.B. The sample established 43 sample plots sized at 1/10th-acre. Within every plot, each live tree was inventoried that was at least 5” in diameter at 4.5’ above the ground, where the height above the ground is measured on the uphill side of the tree. Species,

diameter, and overall tree condition were recorded for each tree. Davey Resource Group utilized i-Tree Eco to input the sample plot data to determine the carbon storage. The CFC Carbon Calculator was used for quantification for subsequent steps 11.2, 11.3, and 11.5.

Attachment: *13 Camp Lakota Carbon Quantification Calculator, 14 Camp Lakota Plot Location Map, 15 Camp Lakota Forest Raw Data, 16 Camp Lakota i-Tree Eco*

Accounting Stock Measurement Method
Provide an overview to describe quantification methods, including which method was used to determine the accounting stock.

DRG completed a sample inventory using randomized 1/10th- acre plots, following section 11.1.B in the CFC Tree Preservation Protocol. DRG used i-Tree Eco to determine the accounting stock and used a standard error of 9%.

Filename: 17 Camp Lakota Carbon Biomass

Plot Sampling Map and Raw Data
If sampling was utilized to estimate the carbon stock, include the map of plot sample locations and raw data collected.

Davey Resource Group sampled 43 plots to estimate the carbon stock. See attached map for location of plot samples and raw data associated with each plot location.

Attachment: *14 Camp Lakota Plot Location Map, 15 Camp Lakota Raw Data*

Carbon Biomass Calculations
Include calculations used to determine the biomass in the Project Area. Attach i-Tree Eco file if i-Tree was used to calculate the carbon biomass.

Carbon quantification is based on the sample plots. The metric tons of Carbon is 3,098.13. The standard error is 271.43.

Biomass tC/ac = (metric tons of carbon – standard error)/project area acres
(3,098.13 – 271.43)/70.3 = 40.21 (cell B11 on attachment 13)

Attachment: *16 Camp Lakota iTree Eco*

Stratification
If stratification is used, maps of strata and stratum definitions. If not used, list not applicable.

Not applicable, the Project Area was treated as one stand, thus DRG did not use stratification.

Forest Composition

Summarize the forest composition and attach the Forest Composition Report.

The three most common species are Black cherry (36.4 percent), Bur oak (11.2 percent), and Pin oak (9.8 percent). DRG completed a sample inventory using randomized 1/10th- acre plots, following section 11.1.B in the CFC Tree Preservation Protocol.

Attachment: *18 Camp Lakota Forest Composition Report*

Area Expected to Remain in Trees after Potential Development (11.2)
Describe the land use designation, any restrictions, and the method used to determine the area expected to remain in trees after potential development (fraction at risk of removal). If residential land use, follow 11.2.B. and provide the calculation showing which percentage of accounting stock at risk of removal is appropriate to include.

Camp Lakota Woodlands is zoned as Agriculture. Section 11.2 in CFC's Tree Preservation Protocol allows for 90% of the Accounting Stock on the Project Area is the "Avoided Biomass Emissions" on agricultural lands.

Quantification of Soil Carbon - Existing Impervious Area and Impervious Limits (11.3)
The Project may claim avoidance of emissions from soil carbon caused by conversion of soils to impervious surfaces. Describe applicable land use designation and development rules, any restrictions, existing impervious area and maximum fraction impervious cover.

Camp Lakota Woodlands is zoned as Agriculture. Section 11.3 in CFC's Tree Preservation Protocol allows for 90% of the Project Area in agricultural zoning, if applicable development rules do not limit impervious area, to be eligible for conversion to impervious surface. Annual cropping and plowing are common practices in the Camp Lakota Woodlands region.

Future Planned Project Activities
Describe future activities that may affect the percent canopy or carbon stocking in any way. Describe maintenance and stewardship activities that could improve the carbon stock.

As part of the ecological stewardship process, hand, and mechanical exotic, invasive, or adventive brush and tree removals may transpire temporarily adjusting the percent canopy and carbon stocking. Tree and brush removal is planned to occur in a fashion to preserve, restore, or otherwise improve long-term the native oak-hickory woodland or white pine cultural planting, and the associated carbon stocks. Cut stump and foliar chemical treatments will occur on exotic and invasive species to prevent and limit suckering and/or recolonization. In addition, prescribed fire will take place as routine woodland maintenance of the oak ecosystem.

CO-BENEFITS QUANTIFICATION DOCUMENTATION (Section 11.5)

Summarize co-benefit quantification per year and provide supporting documentation. CFC will provide a Co-Benefits Quantification calculator for quantifying rainfall interception, reduction of certain air compounds, and energy savings.

Ecosystem Services	***Resource Units***	***Value***
Rainfall Interception (m3/yr)	22,334.3	$159,909.75
Air Quality (t/yr)	0.6082	$831.85
Cooling – Electricity (kWh/yr)	145,517	$11,044.71
Heating – Natural Gas (kBtu/yr)	2,633,382	$25,635.39
Grand Total ($/yr)		**$197,421.71**

Co-benefits were quantified using CFC's Co-Benefits Quantification Calculator. These ecosystem services represent values in avoided costs of $197,421.71 annually and $7,896,868.21 over 40 years.

Attachment: *19 Camp Lakota CoBenefit Calculator*

Canopy Cover

i-Tree Canopy report was completed to quantify the cobenefits. Include the results below.

An on-site inventory was completed, so no documentation of canopy cover is necessary for carbon quantification for this project. However, an i-Tree Canopy report was completed to quantify the co-benefits and the total canopy cover is 96%.

Attachment: *20 Camp Lakota i-Tree Canopy Report*

SOCIAL IMPACTS (Section 12)

Project Operators shall use the Carbon Project Social Impacts template to evaluate how their Project aligns with the UN Sustainable Development Goals (SDGs). CFC will provide the template. Summarize the three to five main SDGs attributed to this Project.

The preservation of the Camp Lakota woodlands will contribute to numerous SDGs, including Good Health and Wellbeing, Clean Water and Sanitation, Climate Actions, Life Below Water, and Life on Land.

SDG 13 – Climate Action: By protecting the trees on the Camp Lakota parcel, biodiversity will be enhanced and stormwater runoff will be mitigated. Additionally, the site sits in proximity to US Rte 14 and the trees will act as a screen for pollutants. Volunteers will be essential to the management of this site and have already begun lending a hand on restoration workdays. These workdays are offered at no cost to participants and increase community member knowledge of our native landscapes.

SDG 6 – Clean Water and Sanitation: The Camp Lakota site is a mix of wetland and woodlands. By protecting the surrounding trees, the ecosystem services of the wetlands are enhanced, which impact water quality and cleanliness.

SDG 15 – Life on Land: The Camp Lakota site is an old growth woodland site that is critical for the sustained health of life on land and will contribute to healthy infiltration rates in an area where groundwater is essential to survival. Protection of the trees will allow them to continue to reduce stormwater runoff, improving the habitat through restoration will enhance the already existing wildlife habitat to improve local biodiversity.

Attachment: 21 Camp Lakota Project Social Impacts

MONITORING AND REPORTING (Section 8)

Throughout the Project Duration, the Project Operator must report on tree conditions across the Project Area.

Monitoring Reports

Monitoring reports are due every three years determined by the date of the verification report. For example, if the verification report is dated January 1, 2023, the first report will be due by January 1, 2026 and every three years thereafter for the duration of the project. CFC will provide a list of dates to Project Operator after the first verification report is approved. 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 information includes updates to land ownership, changes to project design, changes in implementation or management and changes in tree or canopy loss. The reports must be accompanied by some form of telemetry or imaging that captures tree canopy, such as Google Earth, aerial imagery, or LiDAR. The reports must estimate any loss of stored carbon stock or soil disturbance in the Project Area.

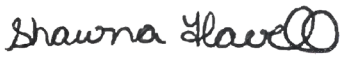
Monitoring Plans

Describe your monitoring plans. If Project Operator plans to claim credits for future growth, describe methods that will be used to quantify future growth.

The project area is included in the monitoring schedule for the McHenry County Conservation District's Brookdale Conservation Area. The McHenry County Conservation District will submit triennial monitoring reports for the project duration as specified in the protocol.

PROJECT OPERATOR SIGNATURE

Signed on November 28 in 2023, by Shawna Flavell, Executive Director, for McHenry County Conservation Foundation.



Signature

Shawna Flavell
Printed Name

815-354-1374
Phone

sflavell@mchenryconservation.org
Email

ATTACHMENTS

Update the attachments list as appropriate for your project.

1 Camp Lakota Project Area Shapefile
2 Camp Lakota Regional Map.pdf
3 Camp Lakota Project Area Map.pdf
4 Camp Lakota Deed.pdf
5 – Preservation Commitment
6 Camp Lakota Land Use Regulations.pdf
7 Camp Lakota Land Use Zoning Layout.pdf
8 Camp Lakota Overlay Zones.pdf
9 Camp Lakota Threat of Loss Demonstration.pdf
10 – Camp Lakota Attestation of No Double Counting and No Net Harm
11 – Camp Lakota No Double Counting Map
12 – Camp Lakota Attestation of Additionality
13 – Camp Lakota CFC Carbon Quantification Calculator
14 – Camp Lakota Plot Location Map
15 – Camp Lakota Forest Raw Data
16 – Camp Lakota i-Tree Eco file
17 – Camp Lakota Carbon Biomass
18 – Camp Lakota Forest Composition Report
19 – Camp Lakota Co-Benefit Calculator
20 – Camp Lakota i-Tree Canopy Report
21 - Camp Lakota Project Social Impacts

PROTOCOL REQUIREMENTS

Project Operator (Section 1.1)
Identify a Project Operator for the project. This is the entity or governmental body who takes responsibility for the project for the 40-year duration.

Project Duration and Project Implementation Agreement (Section 1.2, 2.2)
Project Operator must commit to a 40-year duration and sign a Project Implementation Agreement. This is a 40-year agreement between the Project Operator and City Forest Credits (the "Registry") for an urban forest carbon project.

Location Eligibility (Section 1.3)
Projects must be located in or along the boundary of at least one of the following criteria:

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. Examples include the Metropolitan Area Planning Council in Boston, the Chicago Municipal Planning Agency, the Capital Area Council of Governments (CAPCOG) in the Austin area, and the Southeastern Michigan Council of Governments (SEMCOG)
E. The boundary of land owned, designated, and used by a municipal or quasi-municipal entity for source water or watershed protection. Examples include Seattle City Light South Fork Tolt River Municipal Watershed (8,399 acres owned and managed by the City and closed to public access);
F. A transportation, power transmission, or utility right of way, provided the right of way begins, ends, or passes through some portion of A through D.

Ownership or Right to Receive Credits Eligibility (Section 1.5)
Project Operator must demonstrate ownership of property and eligibility to receive potential credits by meeting one of the following:

A. Own the land 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 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, other greenhouse gas benefits, and other co-benefits delivered by Project trees on that landowner's land. If the Project Area is on private property, the agreements in this sub-section must be recorded in the public records in the county where the property is located. The recordation requirement can be satisfied if the agreements specified in this sub-section are contained in a recorded easement, covenant, or deed restriction on the property.

Demonstrate Tree Preservation (Section 4.1)

The Project Operator must show that the trees in the Project Area are preserved from removal by a recorded easement, covenant, or deed restriction (referred to hereafter as "Recorded Encumbrance") with a term of at least 40 years. This action is referred to as the "Preservation Commitment." This Recorded Encumbrance must be recorded not later than 12 months after Registry approval of the Project's Application.

Demonstrate Threat of Loss (Section 4.2, 4.3, and 4.4):
The Project Operator must show that prior to the Preservation Commitment:

- Project trees were not preserved from removal through a Recorded Encumbrance or other prohibitions on their removal,
- The Project Area was:
    - In a land use designation that allowed for at least one non-forest use. Non-forest uses include industrial, commercial, transportation, residential, agricultural, or resource other than forest, as well as non-forest park, recreation, or open space uses.
    - Is not in an overlay zone that prohibits all development. Examples include critical areas or wetland designations.
- The Project Area met one of the following conditions:
    - Surrounded on at least 30% of its perimeter by non-forest, developed or improved uses, or
    - Sold, conveyed, or had assessed value within three years of preservation for greater than $8,000 average price per acre for the bare land, or
    - Would have a fair market value after conversion to a non-forested "highest and best use" greater than the fair market value after preservation in subsection 4.1, as stated in a "highest and best use" study from a state certified general real estate appraiser in good standing

Additionality (Section 6)
Additionality is ensured through the following:

- Prior to the start of the project, the trees in the Project Area are not protected via easement or recorded encumbrance or in a protected zoning status that preserves the trees.
- The zoning in the Project Area must currently allow for a non-forest use
- The trees in the Project Area face a threat or risk of removal or conversion out of forest
- The Project Operator records in the public land records an easement, covenant, or deed restriction specifically protecting the trees for the project duration of 40 years or 100 years (40 or 100 years depending on the protocol version)

Quantification for Credits (Section 11)
The full Protocol describes the following steps for carbon stock and soil carbon quantification in detail:

1. Stored carbon stock present in Project Area (Section 11.1)
   Estimate the biomass stock present and adjust for uncertainty to calculate the "Accounting Stock". This can be done using the US Forest Service General Technical Report NE-343 tables, on-site inventory of some live trees with i-Tree methods and tools, or an on-site forest inventory

2. Areas expected to remain in trees after potential development (Section 11.2)

Calculate the fraction of the Accounting Stock that likely would be emitted as a result of development, to calculate "Avoided Biomass Emissions"

3. Quantification of soil carbon (Section 11.3)
   Calculate "Avoided Soil Carbon Emissions" caused by conversion of soils to impervious surfaces in the Project Area

4. Deduction for displaced development (Section 11.4)
   Apply the deductions in Section 11.5 and Appendix B to Biomass and Soil Carbon calculations to adjust for development and emissions that would be displaced by the preservation of the Project Area (leakage deductions). This will reduce the creditable tonnes of Avoided Biomass Emissions and Avoided Soil Carbon Emissions to adjust for displaced development

5. Quantify Co-Benefits (Section 11.5)
   The Project Operator will calculate co-benefits separately from CO_2(e). The Registry will supply a spreadsheet template based on their climate zone, and will provide values for rainfall interception, reductions of air compounds, and energy savings.

6. Claiming additional credit for growth (Section 11.6)
   The Project Operator may elect to also account for ongoing growth of trees within the Project Area after Project Commencement

Social Impacts (Section 12)
The Project Operator 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.

Attestation of No Net Harm and No Double Counting (Section 5)
The Project Operator will 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.

Validation and Verification by Third-Party Verifiers (Section 13)
Project compliance and quantification must be verified by a third-party Validation and Verification Body approved by the Registry.

Issuance of Credits to Project Operator (Section 7)
Ex-post credits are issued after the biomass is protected via a recorded encumbrance protecting the trees. Issuance is phased or staged over one and five years at the equivalent of 50 aces of crediting per year. This staged issuance reflects the likely staging of development over time if the Project Area were to have been developed.

After validation and verification, the Registry issues credits to the Project Operator based on the Project Area size:

- 50 acres or less: all credits are issued after validation and verification
- Greater than 50 but less than 200 acres: credits are issued in the equivalent of 50 acres per year
- Greater than 200 acres: credits are issued in equal amounts over five years

Credits for Reversal Pool Account (Section 7.3):
The Registry will issue 90% of Project credits earned and requested and will hold 10% in the Registry's Reversal Pool Account.

Understand Reversals (Section 9)
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.

Monitoring and Reporting (Section 8)
The Project Operator must submit a report every three years for the project duration. The reports must be accompanied by some form of telemetry or imaging that captures tree canopy, such as Google Earth, aerial imagery, or LiDAR. The reports must estimate any loss of stored carbon stock or soil disturbance in the Project Area.

Attachments

Deed

Project Area Map

Regional Area Map

Preservation Commitment

Zoning Maps

Zoning Description(s)

Threat of Loss Demonstration

Attestation of No Double Counting and No Net Harm Attestation of Additionality

Carbon Quantification Tool, Plot Map & Biomass Report

Tree Inventory

Tree Characteristics Chart(s)

iTree Canopy Report

Cobenefit Calculator

Social Impacts

Deed

CT 21006704 WF

JOSEPH J. TIRIO
CLERK AND RECORDER
MCHENRY COUNTY, IL
2021R0044024
08/11/2021 02:23:42 PM PAGES: 5
EXEMPTION: E

RHSPS HOUSING FEE	9.00
GIS FEE	24.00
RECORDING FEE	14.00
AUTOMATION FEE	8.00

PREPARED BY:
Julie M. Workman, Esq.
Levenfeld Pearlstein, LLC
2 North LaSalle Street
Suite 1300
Chicago, Illinois 60602

WHEN RECORDED RETURN TO:
Roger Stelle
Meltzer Purtill & Stelle, LLC
1515 E. Woodfield Road, Suite 250
Schaumburg, Illinois 60173

SEND FUTURE TAX BILLS TO:
McHenry County Conservation Foundation
7210 Keystone Road
Richmond, Illinois 60071

(Above Space for Recorder's use only)

QUIT CLAIM DEED

On this 25th day of June, 2021, PATHWAY TO ADVENTURE COUNCIL, INC., BOY SCOUTS OF AMERICA, an Illinois not-for-profit corporation FKA THE NORTHWEST SUBURBAN COUNCIL, BOY SCOUTS OF AMERICA, an Illinois not-for-profit corporation ("**GRANTOR**") whose address is 617 East Golf Road, #101, Arlington Heights, Illinois 60005, for and in consideration of TEN AND 00/100 DOLLARS, and other good and valuable consideration in hand paid, CONVEYS and QUIT CLAIMS to MCHENRY COUNTY CONSERVATION FOUNDATION, whose address is 7210 Keystone Road, Richmond, Illinois 60071, all interest in the real estate legally described as follows:

THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 27, ALSO THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 28 AND THE WEST 33.0 FEET OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 21 LYING SOUTHERLY OF THE CENTERLINE OF DEEP CUT ROAD, ALL IN TOWNSHIP 45 NORTH, RANGE 6, EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF SAID EAST HALF OF THE NORTHEAST QUARTER OF SECTION 28; THENCE NORTH 89 DEGREES 24 MINUTES 36 SECONDS WEST ALONG THE SOUTH LINE OF SAID EAST HALF OF THE NORTHEAST QUARTER 1,318.65 FEET TO THE SOUTHWEST CORNER THEREOF; THENCE NORTH 00 DEGREES 10 MINUTES 12 SECONDS EAST ALONG THE WEST LINE OF SAID EAST HALF OF THE NORTHEAST QUARTER 2,646.21 FEET TO THE SOUTHWEST CORNER OF SAID EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 21; THENCE NORTH 00 DEGREES 13 MINUTES 01 SECONDS EAST ALONG THE WEST LINE OF SAID EAST HALF OF THE SOUTHEAST QUARTER 104.83 FEET TO THE CENTER LINE OF DEEP CUT ROAD; THENCE NORTHEASTERLY 38.19 FEET ALONG SAID CENTER LINE, BEING A CURVE TO THE LEFT HAVING A RADIUS OF 818.49 FEET, THE CHORD OF WHICH BEARS NORTH 60 DEGREES 00 MINUTES 29 SECONDS EAST 38.19 FEET TO A LINE 33.00 FEET EAST OF AND PARALLEL WITH SAID WEST LINE OF THE EAST HALF OF THE SOUTHEAST QUARTER; THENCE SOUTH 00 DEGREES 13 MINUTES 01 SECONDS WEST ALONG SAID PARALLEL LINE 124.30 FEET TO THE NORTH LINE OF SAID EAST HALF OF THE NORTHEAST QUARTER OF SECTION 28; THENCE SOUTH 89 DEGREES 20 MINUTES 18 SECONDS EAST ALONG SAID NORTH LINE 1,288.39 FEET TO THE NORTHWEST CORNER OF SAID WEST HALF OF THE NORTHWEST QUARTER OF

CT 21006704 WF

PREPARED BY:
Julie M. Workman, Esq.
Levenfeld Pearlstein, LLC
2 North LaSalle Street
Suite 1300
Chicago, Illinois 60602

E-RECORDED

WHEN RECORDED RETURN TO:
Roger Stelle
Meltzer Purtill & Stelle, LLC
1515 E. Woodfield Road, Suite 250
Schaumburg, Illinois 60173

SEND FUTURE TAX BILLS TO:
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THE WEST HALF OF THE NORTHWEST QUARTER OF SECTION 27, ALSO THE EAST HALF OF THE NORTHEAST QUARTER OF SECTION 28 AND THE WEST 33.0 FEET OF THE EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 21 LYING SOUTHERLY OF THE CENTERLINE OF DEEP CUT ROAD, ALL IN TOWNSHIP 45 NORTH, RANGE 6, EAST OF THE THIRD PRINCIPAL MERIDIAN, BEING DESCRIBED AS FOLLOWS: BEGINNING AT THE SOUTHEAST CORNER OF SAID EAST HALF OF THE NORTHEAST QUARTER OF SECTION 28; THENCE NORTH 89 DEGREES 24 MINUTES 36 SECONDS WEST ALONG THE SOUTH LINE OF SAID EAST HALF OF THE NORTHEAST QUARTER 1,318.65 FEET TO THE SOUTHWEST CORNER THEREOF; THENCE NORTH 00 DEGREES 10 MINUTES 12 SECONDS EAST ALONG THE WEST LINE OF SAID EAST HALF OF THE NORTHEAST QUARTER 2,646.21 FEET TO THE SOUTHWEST CORNER OF SAID EAST HALF OF THE SOUTHEAST QUARTER OF SECTION 21; THENCE NORTH 00 DEGREES 13 MINUTES 01 SECONDS EAST ALONG THE WEST LINE OF SAID EAST HALF OF THE SOUTHEAST QUARTER 104.83 FEET TO THE CENTER LINE OF DEEP CUT ROAD; THENCE NORTHEASTERLY 38.19 FEET ALONG SAID CENTER LINE, BEING A CURVE TO THE LEFT HAVING A RADIUS OF 818.49 FEET, THE CHORD OF WHICH BEARS NORTH 60 DEGREES 00 MINUTES 29 SECONDS EAST 38.19 FEET TO A LINE 33.00 FEET EAST OF AND PARALLEL WITH SAID WEST LINE OF THE EAST HALF OF THE SOUTHEAST QUARTER; THENCE SOUTH 00 DEGREES 13 MINUTES 01 SECONDS WEST ALONG SAID PARALLEL LINE 124.30 FEET TO THE NORTH LINE OF SAID EAST HALF OF THE NORTHEAST QUARTER OF SECTION 28; THENCE SOUTH 89 DEGREES 20 MINUTES 18 SECONDS EAST ALONG SAID NORTH LINE 1,288.39 FEET TO THE NORTHWEST CORNER OF SAID WEST HALF OF THE NORTHWEST QUARTER OF

SECTION 27; THENCE SOUTH 89 DEGREES 12 MINUTES 49 SECONDS EAST ALONG THE NORTH LINE OF SAID WEST HALF OF THE NORTHWEST QUARTER 1,316.93 FEET TO THE NORTHEAST CORNER THEREOF; THENCE SOUTH 00 DEGREES 13 MINUTES 39 SECONDS WEST ALONG THE EAST LINE OF SAID WEST HALF OF THE NORTHWEST QUARTER 2,648.76 FEET TO THE SOUTHEAST CORNER THEREOF; THENCE NORTH 89 DEGREES 01 MINUTES 47 SECONDS WEST ALONG THE SOUTH LINE OF SAID WEST HALF OF THE NORTHWEST QUARTER 1,317.06 FEET TO THE PLACE OF BEGINNING, IN MCHENRY COUNTY, ILLINOIS.

Common Address: 2050 Deep Cut Road, Woodstock, Illinois 60098
PINS: 07-21-400-017, 07-27-100-001, 07-27-100-003, 07-28-200-003 and 07-28-200-006

Subject to: (a) all real estate taxes and assessments not yet due and payable, and (b) all easements, covenants, conditions, restrictions and other matters of record.

This is not homestead property.

[Signatures begin on next page]

IN WITNESS WHEREOF, Grantor has executed this Deed as of the date first set forth above.

GRANTOR:

PATHWAY TO ADVENTURE COUNCIL, INC., BOY SCOUTS OF AMERICA, an Illinois not-for-profit corporation

By: _____
Name: JEFF ISAAC
Title: AUTHORIZED SIGNATORY

STATE OF Alabama)
) ss.
COUNTY OF Greene)

I, the undersigned, a Notary Public in and for said County, in the State aforesaid, do hereby certify that Jeff Isaac, the Authorized Signatory of PATHWAY TO ADVENTURE COUNCIL, INC., BOY SCOUTS OF AMERICA, an Illinois not-for-profit corporation, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument in such capacity, appeared before me this day in person and acknowledged that he/she signed and delivered the said instrument as his/her own free and voluntary act and as the free and voluntary act of said entity, for the uses and purposes therein set forth.

GIVEN under my hand and notarial seal, this 25th day of June, 2021.

Kuniya Isaac-Turner
Notary Public

My Commission Expires: 10/30/22

(Seal)

The undersigned hereby declares that the attached represents a transaction exempt under the provisions of 35 ILCS 200/31-45 (e), Real Estate Transfer Tax Act.

Date: June ____, 2021

_____
Grantor

Project Area Map

Legend

- Wetland
- Project Area

Camp Lakota Woodland

Preservation Project Map

2023

McHenry County Conservation District

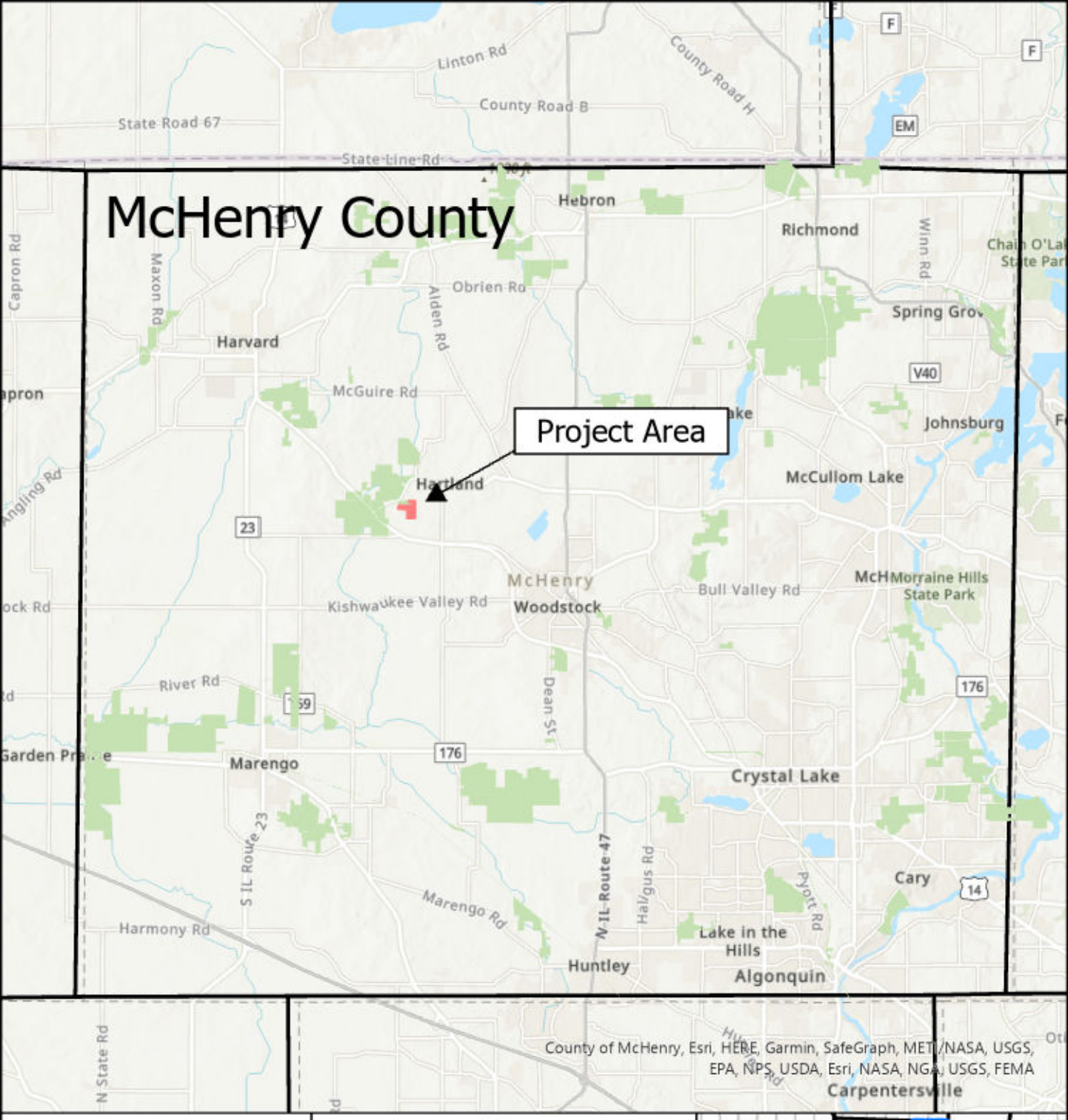
Area	Acres
Woodland	70.3
Wetland	19.86

N

0 0.01 0.03 0.06 0.09 0.12 Miles

Project area includes woodlands. Wetland areas have been removed from overall Project Area.

Regional Area Map



Camp Lakota Woodland

Regional Map | 2023

Preservation Commitment

DocId:20032415
Tx:40328429

JOSEPH J. TIRIO
CLERK AND RECORDER
MCHENRY COUNTY, IL
2023R0029496
11/21/2023 09:40:44 AM PAGES: 6
RECORDING FEE 11.00
GIS FEE 24.00
AUTOMATION FEE 8.00

This instrument prepared by, and after recording return to:

Roger T. Stelle
MELTZER, PURTILL & STELLE. LLC
1515 East Woodfield Rd.
Second Floor
Schaumburg, Illinois 60173
(847)330-2401

PINS: 07-28-200-003; 07-27-100-001; 07-27-100-003

THIS DECLARATION OF DEVELOPMENT RESTRICTIONS ("DECLARATION") is made 24th day of October, 2023 by the **MCHENRY COUNTY CONSERVATION FOUNDATION**, (an Illinois not-for-profit corporation) having an address at 7210 Keystone Road in Richmond, Illinois ("Declarant"), for the purpose of clarifying the development restrictions on a portion of the property at 2050 Deep Cut Road in McHenry County, Illinois;

RECITALS

a. Declarant is the owner of certain property in McHenry County, State of Illinois, known as Camp Lakota, and more particularly described in **EXHIBIT A,** attached hereto and incorporated by reference. Subject shall be referred to as the "Property" hereafter.

b. Declarant purchased the property from Pathway to Adventure Council, Inc., Boy Scouts of America in June 2021.

c. Declarant is a publicly supported, tax-exempt, not-for-profit organization, qualified under Section 501(c)(3) and 170. (h) of the Internal Revenue Code of 1986, as amended, and the regulations issued thereunder (the "Code") dedicated to the preservation of open space in McHenry County, Illinois.

d. Declarant recognizes the value of the Property's mature woodland as a climate asset. The trees on the Property store CO2, reduce stormwater runoff, improve air quality, and improve human health by providing cleaner air and a place for recreation, exercise and the public health benefits of exposure to nature. Clearing of the trees for other uses, such a parking lots, playfields, or other uses would seriously impair the climate value of the property.

e. Declarant is an active participant within the City Forest Credits efforts to develop a forest carbon program with The Morton Arboretum - Chicago Region Trees Initiative, whereby declarant will preserve forested stands and earn carbon credits for those preserved trees. Declarant has established a project with the non-profit carbon registry, City Forest Credits, which has developed carbon protocols and issues credits for qualifying tree-preservation and tree-planting projects in urban areas.

f. Declarant intends for this Declaration to preserve the trees on the Property for a period of forty (40) years from the date of this Declaration. It understands that this Declaration will bar the clearing or removing of trees for parking lots, picnic shelters, playfields, visitor centers, or any reason other than forest health, hazard, disease, fire, and small, non-motorized recreational trails.

DECLARATION

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Declarant, as owner of the Property, hereby declares, grants, imposes, conveys, establishes and accepts the following development restrictions and covenants which shall run with the land and be binding upon all owners of the Property:

1. Removal of Trees. Declarant shall not cut down, destroy, or remove trees located on the Property, except as necessary to control or prevent hazard, disease or fire or to improve forest health. Recreational, non-motor-use trails that include equestrian uses, and have negligible or de minimis impacts on biomass and carbon stock and are permissible, and keeping such areas free of trees is permissible as well.

GENERAL PROVISIONS

2. Run with the land. The covenants and restrictions declared, granted, conveyed and established under this Declaration shall run with the land and inure to the benefit of, and be binding upon, Declarant and its heirs, beneficiaries, successors and assigns, and all future owners of the Property for the forty (40) year interval described above.

3. Term and modification. The covenants and restrictions declared, granted, conveyed and established under this Declaration shall remain in effect as long as it is needed to satisfy the requirements of any applicable carbon protocol under which carbon credits may be issued for the carbon preserved in the trees on the Property, but in no event more than forty (40) years from the date of this Agreement.

4. Governing law and venue. The terms and provisions of this Declaration shall be governed, construed, and enforced in accordance with the laws of the State of Illinois. Venue for any lawsuit arising out of this Declaration shall be exclusively in McHenry County, Illinois.

5. Severability. In case any one or more of the provisions contained in this Declaration shall for any reason be held invalid, illegal or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provisions of this Declaration, but this Declaration shall be construed as if such invalid, illegal, or unenforceable provision had never been contained herein.

6. Enforcement.

a. This Declaration is being freely and voluntarily made by Declarant.

b. City Forest Credits, the permitting authority in the locality where the Property is located, and members of the general public are express third party beneficiaries of this Declaration (individually, a "Beneficiary", and collectively, the "Beneficiaries"), and shall have the power and right but not the obligation to enforce the terms and conditions of this Declaration by any applicable legal or equitable remedies, including, without limitation, injunctive relief and specific performance. All remedies available under this Declaration shall be in addition to any and all remedies at law or in equity. Enforcement of the terms of this Declaration shall be at the discretion of the Beneficiaries, and any forbearance, delay or omission to exercise its rights under this Declaration in the event of a breach of any term of this Declaration is not a waiver by any Beneficiary of such term or of any subsequent breach of such term, or any other term in this Declarant, or of any rights of any Beneficiary under this Declaration.

c. In addition, City Forest Credits shall have the right to assign the rights described in this Section 6 to any other person or entity with an interest in preserving the trees on the Property and such party shall be deemed a Beneficiary for the purposes set forth above.

d. This Declaration shall be construed and enforced in accordance with the laws of the State of Illinois. Venue for any lawsuit arising out of this Declaration shall be exclusively in McHenry County, Illinois.

e. Declarant shall be responsible for all costs associated with implementation of this Declaration. Further, Declarant shall be obligated to pay for the Beneficiaries' or such other enforcing party's costs to process a request for any modification or termination of this Declaration and any approval required by this Declaration.

7. Subordination of Leasehold Interest.

a. The Foundation has heretofore entered into a certain Triple-Net Lease Agreement (the "Lease") dated September 14, 2021, with the McHenry County Conservation District, a conservation district organized and existing under the laws of the State of Illinois (the "District"), pursuant to which the District holds a leasehold interest in the Property and other real estate. The District has been added as a party to this Declaration for the sole purpose of subordinating any interest it has pursuant to the Lease to this Declaration and, by executing this Declaration agrees to be subject to this Declarations in its ownership and management of the Property during the term of the Lease.

[Signature page follows.]

IN WITNESS WHEREOF, this Agreement has been executed by the Foundation as of the Effective Date.

MCHENRY COUNTY CONSERVATION FOUNDATION

By: _____
Kevin Ivers
President

Attest: _____
Ray Eisbrener
Secretary

Subordination of Leasehold Interest

The District hereby subordinates its interest under a certain Triple-Net Lease Agreement dated September 14, 2021, with the Foundation to the Declaration set forth herein and agrees that its use and occupancy of the property shall be subject to the Restrictions herein provided.

MCHENRY COUNTY CONSERVATION DISTRICT

By: _____
Christopher Dahm, President

Attest: _____
Patrick Fritz, Secretary

STATE OF ILLINOIS)
)SS
COUNTY OF McHENRY)

I, Kristi LaMontagna, a Notary Public in and for said County, in the State aforesaid, do hereby certify that Kevin Ivers, the President of the McHenry County Conservation Foundation (the "Foundation"), and Ray Eisbrener, the Secretary of the Foundation, are personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such President and Secretary, appeared before me this day in person and acknowledged that they signed and delivered the said instrument as their own free and voluntary act and as the free and voluntary act of the Foundation, for the uses and purposes therein set forth.

GIVEN under my hand and notarial seal, this 20th day of November, 2023.

KRISTI LAMONTAGNA
Official Seal
Notary Public - State of Illinois
My Commission Expires Apr 26, 2026
(SEAL)

Kristi LaMontagna
NOTARY PUBLIC

STATE OF ILLINOIS)
)SS
COUNTY OF McHENRY)

I, Kristi LaMontagna, a Notary Public in and for said County, in the State aforesaid, do hereby certify that Christopher Dahm, the President, and Patrick Fritz, the Secretary of the Board of Trustees of the McHenry County Conservation District, a conservation district organized and existing under the laws of the state of Illinois ("District"), who are personally known to me to be the same persons whose names are subscribed to the foregoing instrument as such President and Secretary, respectively, appeared before me this day in person and acknowledged that they signed and delivered the said instrument as their own free and voluntary act and as the free and voluntary act of the District, for the uses and purposes therein set forth.

GIVEN under my hand and notarial seal, this 24th day of October, 2023.

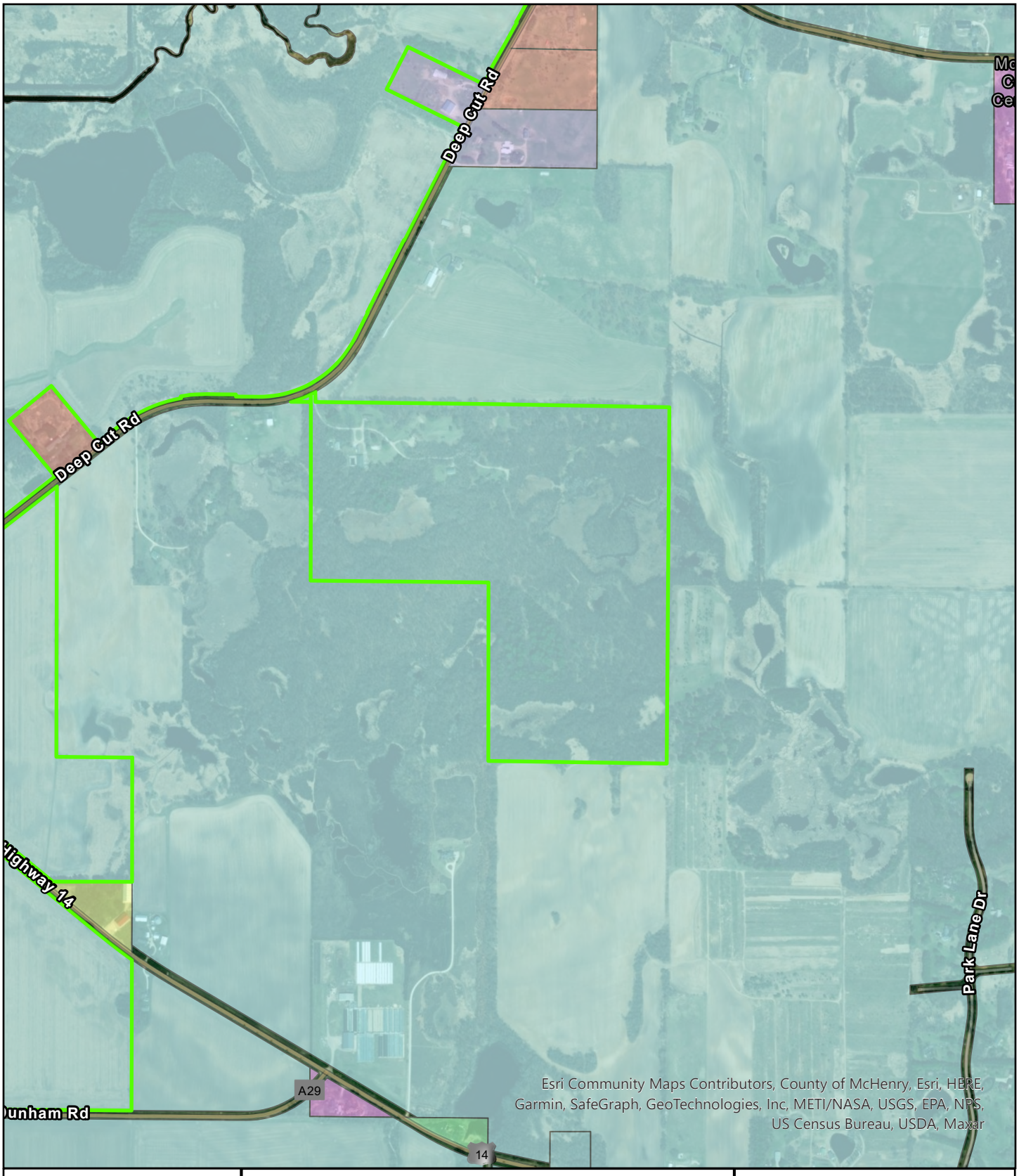
Kristi LaMontagna
NOTARY PUBLIC

KRISTI LAMONTAGNA
Official Seal
Notary Public - State of Illinois
My Commission Expires Apr 26, 2026
(SEAL)

EXHIBIT A

That part of the West Half of the Northwest Quarter of Section 27 and that part of the Northeast Quarter of the Northeast Quarter of Section 28, both in Township 45 North, Range 6 East of the Third Principal Meridian, described as follows: Beginning at the Northeast corner of said West Half of the Northwest Quarter; thence South 00 degrees 13 minutes 39 seconds West along the East line of said West Half of the Northwest Quarter, 2,648.76 feet to the Southeast corner thereof; thence North 89 degrees 01 minute 47 seconds West along the South line of said West Half of the Northwest Quarter, 1,317.06 feet to the Southwest corner thereof; thence North 00 degrees 13 minutes 45 seconds East along the West line of said West Half of the Northwest Quarter, 1,322.27 feet to the Southeast corner of said Northeast Quarter of the Northeast Quarter; thence North 89 degrees 22 minutes 27 seconds West along the South line of said Northeast Quarter of the Northeast Quarter, 1,320.02 feet to the Southwest corner thereof; thence North 00 degrees 10 minutes 12 seconds East along the West line of said Northeast Quarter of the Northeast Quarter, 428.6 feet, more or less, to the Southeasterly line of the Natural Gas Pipeline Easement; thence North 47 degrees 48 minutes 41 seconds East along said Southeasterly line, 360.00 feet; thence South 89 degrees 11 minutes 06 seconds East, 1,833.62 feet; thence North 00 degrees 13 minutes 39 seconds East parallel with aforesaid East line, 452.90 feet; thence North 89 degrees 12 minutes 49 seconds West parallel with the North line of said West Half of the Northwest, 562.00 feet; thence North 00 degrees 13 minutes 39 seconds East parallel with said East line, 200.01 feet to a point of said North line; thence South 89 degrees 12 minutes 49 seconds East along said North line, 1,100.05 feet to the Place of Beginning, in McHenry County, Illinois.

Zoning Maps



Legend

- MCCD Sites
- A1
- A1C
- A1V
- A2
- A2V
- B2V

Camp Lakota Woodland

Land Use/Zoning Map | 2023

McHenry County Conservation District

McHenry County Conservation Foundation

N

0 0.07 0.15 0.3 Miles

Zoning Description(s)

CHAPTER 16.36: AGRICULTURAL ZONING DISTRICTS

Section

§ 16.36.010 ZONING DISTRICTS PURPOSE STATEMENTS.

A. *Agricultural Zoning Districts.* Properties in agricultural zoning districts are located in areas where land is used for commercial agricultural production. Owners, residents, and other users of property in or adjoining these districts may be subjected to inconvenience, discomfort, and the possibility of injury to property and health arising from normal and accepted agricultural practices and operations, including but not limited to noise, odors, dust, the operation of machinery of any kind, including aircraft, the storage and disposal of manure, the application of fertilizers, soil amendments, herbicides, and pesticides. Therefore, owners, occupants, and users of property within and adjacent to these areas should be prepared to accept such inconveniences, discomfort, and possibility of injury from normal agricultural operations, and are hereby put on official notice that the Illinois "Right to Farm Law" (Farm Nuisance Suit Act 740 ILCS 70/) may bar them from obtaining a legal judgement against such normal agricultural operations.

1. *Purpose of A-1 Agriculture District.* The intent of the A-1 Agriculture District is to permit agricultural purposes and activities. Residences are allowed on large agricultural parcels within the County. The standards of the A-1 District promote the continuation of farming and protect agricultural land uses from the encroachment of incompatible uses.

2. *Purpose of A-2 Agriculture District.* The intent of the A-2 Agriculture District is to permit individual single-family residences within agricultural portions of the County. All residences within this district must be compatible with surrounding agricultural operations, and must maintain, preserve, and enhance agricultural activities. Any zoning map amendments to the A-2 District must meet the standards of § 16.36.020 (A-2 District Rezoning Standards).

B. *Residential Zoning Districts.*

1. *Purpose of the E-5 Estate District.* The intent of the E-5 Estate District is to accommodate single-family residences on a minimum of five (5) acres that, due to topography and location, are well suited for single-family use. The E-5 District is intended to be located in close proximity to municipalities or historic town centers where infrastructure and services are readily accessible, to encourage the compact and contiguous development policy of the *2030 Plan*, and shall take into consideration the densities of the adjacent municipality.

2. *Purpose of the E-3 Estate District.* The intent of the E-3 Estate District is to accommodate single-family residences on a minimum of three (3) acres that, due to topography and location, are well suited for single-family use. The E-3 District is intended to be located in close proximity to municipalities or historic town centers where infrastructure and services are readily accessible, to encourage the compact and contiguous development policy of the *2030 Plan*, and shall take into consideration the densities of the adjacent municipality.

3. *Purpose of the E-2 Estate District.* The intent of the E-2 Estate District is to accommodate single-family residences on a minimum of two (2) acres that, due to topography and location, are well suited for single-family use. The E-2 District is intended to be located in close proximity to municipalities or historic town centers where infrastructure and services are readily accessible, to encourage the compact and contiguous development policy of the *2030 Plan*, and shall take into consideration the densities of the adjacent municipality.

4. *Purpose of the E-1 Estate District.* The intent of the E-1 Estate District is to accommodate single-family residences on a minimum of one (1) acre that, due to topography and location, are well suited for single-family use. The E-1 District is intended to be located in close proximity to municipalities or historic town centers where infrastructure and services are readily accessible, to encourage the compact and contiguous development policy of the *2030 Plan*, and shall take into consideration the densities of the adjacent municipality.

5. *Purpose of the R-1 Single-Family Residential District.* The intent of the R-1 Single-Family Residential District is to accommodate a single-family residential use on lots a minimum of one-half (½) acre in size. The R-1 District is for areas of higher residential density, located in close proximity to municipalities or historic town centers where services are available and more accessible.

6. *Purpose of the R-2 Two-Family Residential District.* The intent of the R-2 Two-Family Residential District is to accommodate both single-family and two-family residential uses on lots a minimum of one (1) acre in size. The R-2 District is for areas of higher residential density, located in close proximity to municipalities or historic town centers where services are available and more accessible.

7. *Purpose of the R-3 Multifamily Residential District.* The intent of the R-3 Multifamily Residential District is to provide for multifamily residential use in areas where central utilities, facilities, and services exist. The R-3 District is for areas of higher residential density, located in close proximity to municipalities or historic town centers where services are available and more accessible.

C. *Commercial Districts.*

1. *Purpose of the B-1 Neighborhood Business District.* The intent of the B-1 Neighborhood Business District is to provide access to commercial uses for adjacent residential areas, satisfying the basic shopping or service needs of residents. Dwellings are permitted above or behind ground-floor commercial uses to allow for a mixed-use environment.

2. *Purpose of the B-2 Neighborhood Business District.* The intent of the B-2 Neighborhood Business District is to provide access to

commercial uses for adjacent residential areas, satisfying the basic shopping or service needs of residents, and to accommodate businesses that serve alcoholic beverages for consumption on-site, as well as package liquor sale. Dwellings are permitted above or behind ground-floor commercial uses to allow for a mixed-use environment.

3. *Purpose of the B-3 General Business District.* The intent of the B-3 General Business District is to accommodate commercial uses that cater to the needs of the population from the larger region. The B-3 District allows more intense non-residential uses, which are often larger in scale and typically generate truck traffic. Dwellings are permitted above or behind ground-floor commercial uses to allow for a mixed-use environment.

D. *Office and Industrial Districts.*

1. *Purpose of the O Office/Research District.* The intent of the O Office/Research District is to accommodate office and research facilities and other related non-manufacturing activities in a campus-like environment. The O District is generally located near or adjacent to municipalities. Dwellings are permitted above or behind ground-floor office uses to allow for a mixed-use environment.

2. *Purpose of the I-1 Light Industrial District.* The purpose of the I-1 Light Industrial District is to provide for a wide variety of light manufacturing, fabricating, processing, research, wholesale distributing, and warehousing uses. Light industrial uses are enclosed low-intensity, non-nuisance light fabrication, and assembly-type manufacturing, as well as research facilities with little to no outside impacts. The industrial zoning districts are generally located away from residential development and near transportation facilities and municipalities. Dwellings are permitted above or behind ground-floor light industrial uses to allow for a mixed-use environment, typically for caretaker residences.

3. *Purpose of the I-2 Heavy Industrial District.* The purpose of the I-2 Heavy Industrial District is to provide for a wide variety of general manufacturing, fabricating, processing, wholesale distributing, and warehousing uses. General industrial uses include fabrication, warehousing, and assembly-type manufacturing, as well as office and research facilities, which may result in some moderate external effects such as smoke, noise, glare, or vibration, and typically include outdoor storage and related outdoor activities. The industrial zoning districts are generally located away from residential development and near transportation facilities and municipalities.

(Ord. O-201410-10-035, passed 10-14-2014; Ord. O-201601-ZBA-006, passed 1-19-2016; Ord. O-201603-ZBA-010, passed 3-17-2016, § 9.1; Ord. O-201803-ZBA-10-08, passed 3-19-2018; Ord. O-201808-10-033, passed 8-21-2018)

§ 16.36.020 A-2 DISTRICT REZONING STANDARDS.

In addition to meeting the standards for a map amendment in §16.20.010 (Zoning Map and Text Amendment), all rezonings to the A-2 District must meet the following additional requirements:

A. Only property in the A-1 District is eligible for rezoning to the A-2 District.

B. The subject property shall have an existing lawfully constructed residential dwelling on the property. Mobile homes, agricultural trailers, and agriculture employee housing do not qualify under this standard.

C. The zoning petition shall be restricted to a single existing or proposed parcel.

D. The subject property shall meet one (1) of the following three (3) relevant exemptions from the Plat Act (765 ILCS 205/*et seq.*) as amended. In the event that the Plat Act is amended, the provisions of the Illinois Compiled Statutes shall control.

1. The division or subdivision of land into parcels or tracts of five (5) acres or more in size which does not involve any new streets or easements of access.

2. The sale or exchange of parcels or tracts of land following the division into no more than two (2) parts of a particular parcel or tract of land existing on July 17, 1959 and not involving any new streets or easements of access.

3. The sale of a single lot of less than five (5) acres from a larger tract when a survey is made by an Illinois Registered Land Surveyor, provided that this exemption shall not apply to the sale of any subsequent lots from the same larger tract of land, as determined by the dimensions and configuration of the larger tract on October 1, 1973, and provided also that this exemption does not invalidate any local requirements applicable to the subdivision of land.

(Ord. O-201410-10-035, passed 10-14-2014; Ord. O-201601-ZBA-006, passed 1-19-2016; Ord. O-201603-ZBA-010, passed 3-17-2016, § 9.2; Ord. O-201803-ZBA-10-08, passed 3-19-2018; Ord. O-201808-10-033, passed 8-21-2018)

§ 16.36.030 ZONING DISTRICT USES.

A. Table 16.32-1: Zoning District Uses lists permitted, conditional, and temporary uses for the zoning districts of this Ordinance.

B. Development in these districts must meet McHenry County Department of Health requirements for septic suitable soils or other wastewater disposal systems approved by the Department of Health.

C. As a condition of approval of a building permit for a new residential structure for any lot or parcel of land not subdivided, a developer is required to comply with the requirements of § 16.76.100 (School Donation Requirements) as if the lot or parcel were subdivided.

(Ord. O-201410-10-035, passed 10-14-2014; Ord. O-201601-ZBA-006, passed 1-19-2016; Ord. O-201603-ZBA-010, passed 3-17-2016, § 9.3; Ord. O-201803-ZBA-10-08, passed 3-19-2018; Ord. O-201808-10-033, passed 8-21-2018)

§ 16.36.040 BULK AND SETBACK REGULATIONS.

A. Table 16.36-1 : Zoning Districts Bulk and Setback Regulations establishes bulk and setback regulations for zoning districts. Development is also subject to the standards of § 16.60.010 (General Development Standards).

	TABLE 16.36-1: ZONING DISTRICTS BULK AND SETBACK REGULATIONS (PRINCIPAL STRUCTURES)	

	Minimum Lot Area			Minimum Lot Frontage[1]	Maximum Building Height		Maximum Building Coverage	Max. Impervious Surface[2]	Minimum Street Setback[3, 4]	Minimum Interior Side Setback[4,6]	Minimum Rear Setback[6]	Flag- or Land-Locked Lot/Parcel Perimeter Setback[5,6]	
	Agriculture	Residence	All Other		Agriculture	All Other							

TABLE 16.36-1: ZONING DISTRICTS BULK AND SETBACK REGULATIONS (PRINCIPAL STRUCTURES)

	Minimum Lot Area			Minimum Lot Frontage[1]	Maximum Building Height		Maximum Building Coverage	Max. Impervious Surface[2]	Minimum Street Setback[3, 4]	Minimum Interior Side Setback[4,6]	Minimum Rear Setback[6]	Flag- or Land-Locked Lot/Parcel Perimeter Setback[5,6]	
	Agriculture	Residence	All Other		Agriculture	All Other							
A-1	None	40ac	1ac	330'	None	35'	None	None	30' from ROW or 65' from the centerline if no dedicated right-of-way exists or as allowed by §16.60.C.1.a.	30'	30'	30'	A-1
A-2	None	1ac		Lots up to 2ac: 150' Lots 2-3ac: 175' Lots 3-5ac: 250' Lots 5+ac: 330'			Lots up to 2ac: 30% Lots 2-3ac: 20% Lots 3-5ac: 15% Lots 5+ac: 10%			20'	20'		A-2
E-5	5ac			330'	35'		10%	50%		30'	30'	30'	E-5
E-3	3ac			250'			15%			20'			E-3
E-2	2ac			175'			20%						E-2
E-1	1ac			150'			35%				20'	20'	E-1
R-1	0.5ac			100'	35'		30%	50%	30' from ROW or as allowed by §16.60.C.1.a.	10'	10'	20'	R-1
R-2	1ac			150'							20'		R-2
R-3	2ac + 0.25 ac for each du above 4			175'	38'			60%					R-3
B-1	0.5ac			100'	35'		35%	65%	30'	10'	20'	20'	B-1
B-2	1ac			150'									B-2
B-3	1ac			150'									B-3
O	0.5ac			100'	40'		35%	65%	30'	When abutting agricultural or residential zoning districts: 30' All other: 10'	All other: 20'	All other: 20'	O
I-1	1ac			150'	40'		40%	70%	30'	When abutting any non- industrial zoning district (excluding O): 75' All other: 10'	All other: 20'	All other: 20'	I-1
I-2										When abutting any non- industrial zoning district (excluding O): 100' All other: 10'	All other: 20'	All other: 20'	I-2

1 Lots located on cul-de-sacs may have a lot frontage of not less than 50% of the district standard or 75-feet, whichever is greater.

2 Additional restrictions on impervious surface coverage apply in the SARA and Class III Overlay Districts.

3 The minimum street setback shall be at least ninety (90) feet from the centerline of a Regional Transportation Corridor as identified in Appendix D.

4 Refer to § 16.80.050D. for reduced setbacks for nonconforming lots.

5 For a flag or a land-locked lot or parcel, the setback is measured from the main building site, excluding the narrow corridor access strip or any access easement.

6 Increased side, rear, and flag-lot/parcel perimeter setbacks when abutting certain districts applies to both principal and accessory structures.

(Ord. O-201410-10-035, passed 10-14-2014; Ord. O-201601-ZBA-006, passed 1-19-2016; Ord. O-201603-ZBA-010, passed 3-17-2016, § 9.4; Ord. O-201803-ZBA-10-08, passed 3-19-2018; Ord. O-201808-10-033, passed 8-21-2018; Ord. O- 202208-ZBA-031, passed 8-16-2022)

§ 16.36.050 GENERAL STANDARDS OF APPLICABILITY.

A. *Accessory Structures and Uses.* See § 16.56.050 (Accessory Structure and Use Standards) for permissions and standards for accessory structures and uses.

B. *Permitted Encroachments.* See Chapter 16.60 (Site Development Standards) for permissions and standards for encroachments into required yards.

C. *Off-Street Parking and Loading.* See Chapter 16.64 (Off-Street Parking and Loading) for off-street parking and loading requirements and standards.

D. *Landscape.* See Chapter 16.60 (Site Development Standards) for landscape requirements and standards.

E. *Signs.* See Chapter 16.72 (Signs) for sign permissions and standards.

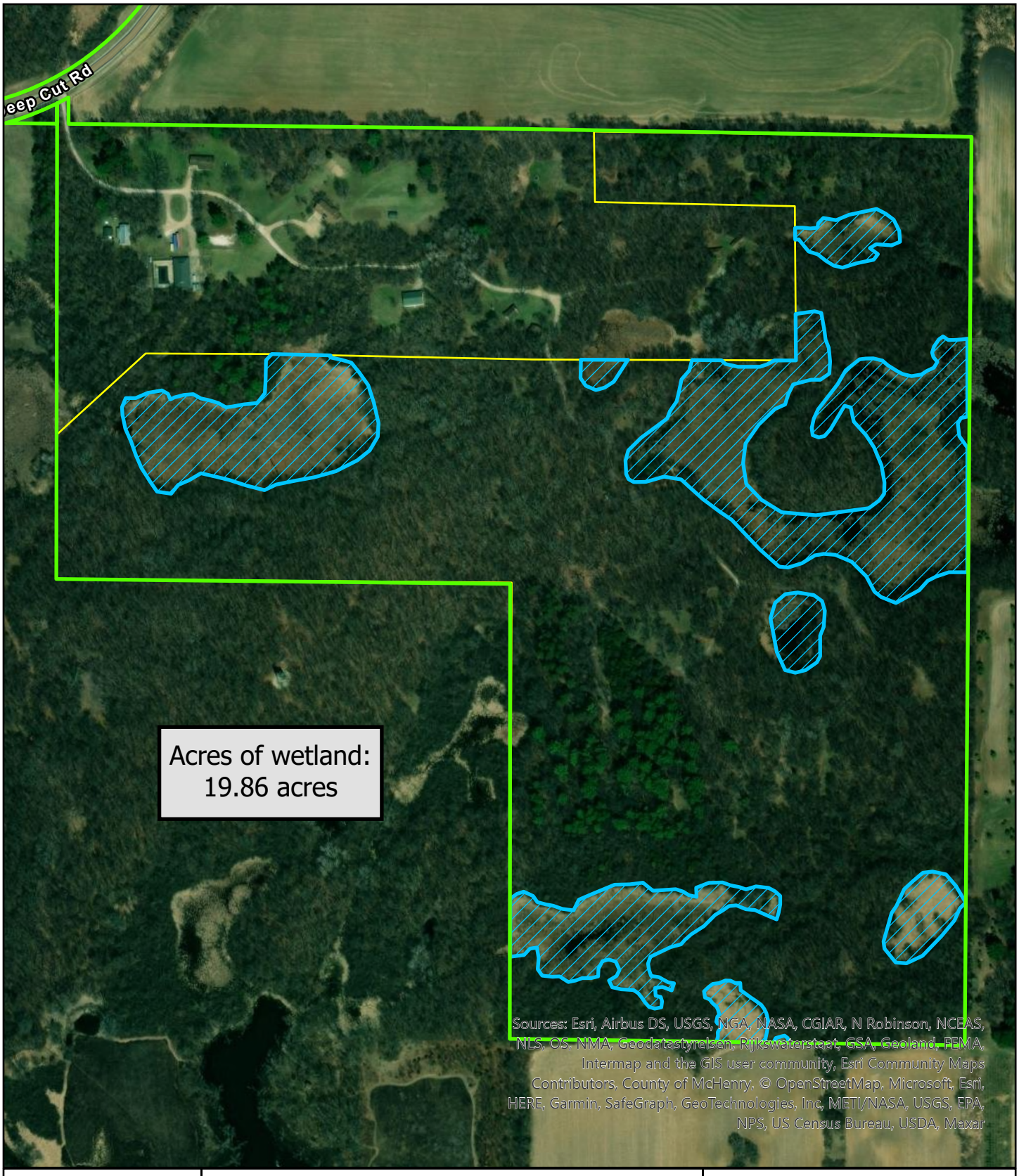
F. *Sewage Disposal.* See the McHenry County Public Health Ordinance.

G. *Water Supply.* See the McHenry County Public Health Ordinance.

H. *Stormwater Management.* See McHenry County Stormwater Management Ordinance.

I. *Access Management.* See McHenry County Access Control and Right-of-Way Management Ordinance.

(Ord. O-201410-10-035, passed 10-14-2014; Ord. O-201601-ZBA-006, passed 1-19-2016; Ord. O-201603-ZBA-010, passed 3-17-2016, § 9.5; Ord. O-201803-ZBA-10-08, passed 3-19-2018; Ord. O-201808-10-033, passed 8-21-2018)



Legend

- MCCD Sites
- Project Boundary
- Wetland

Camp Lakota Woodland

Overlay Zones or Restrictions | 2023

McHenry County Conservation District

McHenry County Conservation Foundation

N

0 0.03 0.06 0.12 Miles

Threat of Loss Demonstration

Legend

- agricultural development threat
- residential development threat
- pipeline development threat
- non-threat

Camp Lakota Woodland

Threat of Loss Demonstration | 2023

McHenry County Conservation District

McHenry County Conservation Foundation

N

0 0.04 0.07 0.14 Miles

Type of Threat at Parcel Boundary	Length (ft)	Length (m)	% of Total Boundary
agricultural development	5024.94	1531.60	47.42%
residential development	916.20	279.26	8.65%
pipeline development	138.75	42.29	1.31%
non-threat	4516.57	1376.65	42.62%

Attestation of No Double Counting and No Net Harm

Camp Lakota Woodland
Attestation of No Double Counting of Credits & No Net Harm

I am the Executive Director of the McHenry County Conservation Foundation and make this attestation regarding the no double counting of credits and no net harm from this tree preservation project, Camp Lakota Woodland.

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

McHenry County Conservation Foundation has not and will not seek credits for CO_2 for the project trees or for this project from any other organization or registry issuing credits for CO_2 storage.

3. No Double Counting by Seeking Credits for the Same Trees or Same CO_2 Storage

McHenry County Conservation Foundation has not and will not apply for a project including the same trees as this project nor will it seek credits for CO_2 storage for the project trees or for this project in any other project or more than once. [Insert name of Project Operator] checked the location of the Project Area against the Registry-provided geospatial database, which contains geospatial data on the project areas of all registered urban forest carbon preservation projects to date. Project Operator has determined that there is no overlap of Project Area or Project Trees with any registered urban forest carbon preservation project.

4. No Net Harm

The trees preserved in this project will produce many benefits, as described in our Application and PDD. Like almost all urban trees, the project trees are preserved for the benefits they deliver to people, communities, and the environment 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 October 12 in 2023, by Shawna Flavell, Executive Director, for McHenry County Conservation Foundation.

Shawna Flavell

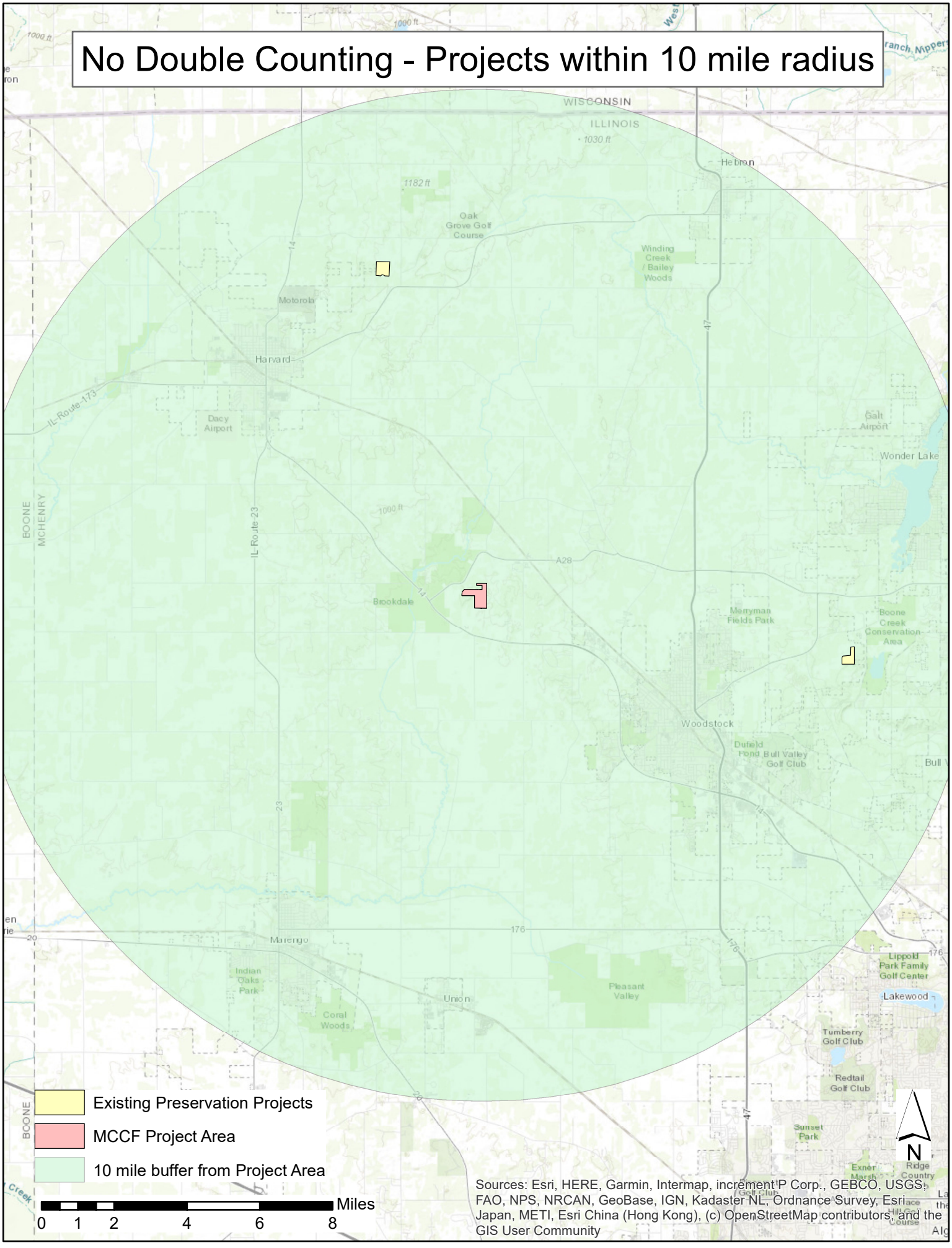
_____

Signature

815-338-6223

Phone

sflavell@mchenryconservation.org
Email


No Double Counting - Projects within 10 mile radius
WISCONSIN
ILLINOIS
Hebron
Oak Grove Golf Course
Winding Creek / Bailey Woods
Motorola
Harvard
Dacy Airport
IL Route 173
Galt Airport
Wonder Lake
BOONE
MCHENRY
IL Route 23
A28
Brookdale
Merryman Fields Park
Boone Creek Conservation Area
Woodstock
Dufield Pond Bull Valley Golf Club
Marengo
Indian Oaks Park
Union
Coral Woods
Pleasant Valley
Lippold Park Family Golf Center
Lakewood
Tumberry Golf Club
Redtail Golf Club
Sunset Park
Existing Preservation Projects
MCCF Project Area
10 mile buffer from Project Area
Miles
0 1 2 4 6 8
N
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

Attestation of Additionality

Camp Lakota Woodland
Attestation of Additionality

I am the Executive Director of the McHenry County Conservation Foundation and make this attestation regarding additionality from this tree preservation project, Camp Lakota Woodland.

- Project Description
    - The Project that is the subject of this attestation is described more fully in the Application and the Project Design Document (PDD), both of which are incorporated into this attestation.
- Prior to the start of the project, the trees in the Project Area were not protected via easement or recorded encumbrance or in a protected zoning status that preserves the trees
- The zoning in the Project Area currently allows for a non-forest use
- The trees in the Project Area face a threat or risk of removal or conversion out of forest
- McHenry County Conservation Foundation recorded in the public land records an easement, covenant, or deed restriction specifically protecting the trees for the project duration of 40 years.
- Additionality is also embedded in the quantification methodology that our project followed. Projects cannot receive, and the project will not receive, credits for trees that would have remained had development occurred, nor can they receive soil carbon credits for soil that would have been undisturbed had development occurred. The project also had to apply a discount to credited carbon for potential displaced development due to the project.
- Project Implementation Agreement for Project Duration
    - McHenry County Conservation Foundation signed a Project Implementation Agreement with City Forest Credits for 40.

Signed on October 12 in 2023, by Shawna Flavell, for McHenry County Conservation Foundation.

Shawna Flavell

_____

Signature

Shawna Flavell
Printed Name

815-338-6223
Phone

sflavell@mchenryconservation.org
Email

Carbon Quantification Tool,

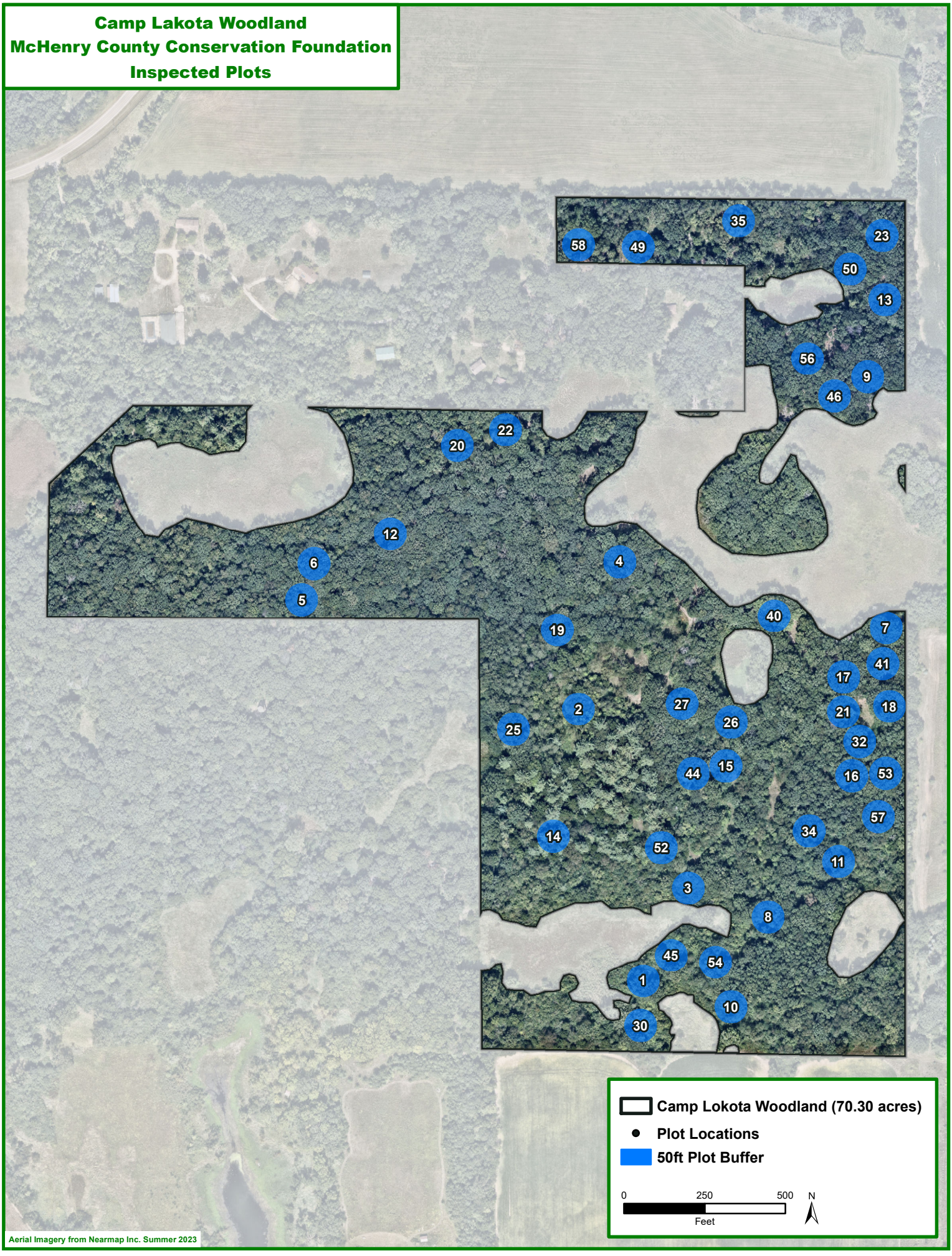
City Forest Credits - Preservation Protocol Carbon Quantification Calculator

Project Operator	McHenry County Conservation Foundation	3098.13	271.43
Project Name	Camp Lakota Woodland	40.20910384	
Project Location	Parcel: 07-28-200-003, 07-27-100-001, 07-27-100-003		
Date	8/25/2023		

Carbon Quantification Summary		**Protocol Section**	**Supplemental information/notes**
70.3	Total Project Area Acres		include project area for all parcels enrolled in carbon project
40.21	Biomass tC/ac	11.1.B	A complete inventory was performed on all trees within the project area that had a diameter at breast height of 5 inches or more, corresponding to method 11.1.B , include i-Tree eco results
147.43	Biomass tCO2e/ac	11.1.B	
10,365	Accounting Stock, tCO2e	11.1.B	
90%	Fraction at risk of tree removal	11.2	Based on zoning - see 11.2 in preservation protocol
9,328	Avoided Biomass Emissions, tCO2e	11.2	
90%	Avoided impervious surface, percent	11.3	Based on zoning - see 11.4 in preservation protocol
63	Avoided impervious surface, acres	11.4	
7,592	Avoided Soil Carbon Emissions, tCO2e	11.4	
18.3%	Displacement	11.5	Fraction of avoided development that cannot be served by development or re-development of existing non-treed properties within the urban area
1,707	Displaced Biomass Emissions, tCO2e		
2,300	Displaced Soil Emissions		Assumes that redevelopment causes increase in impervious surface on redeveloped parcels
7,621	Credits from Avoided Biomass Emissions, tCO2e		
5,292	Credits from Avoided Soil Emissions, tCO2e		
12,913	Total Credits attributed to the project, tCO2e		
1,291	Registry Reversal Pool Account (10%), tCO2e		
11,622	**Total credits issued to the project, tCO2e**		
165	**Total credits issued to the project, tCO2e/acre**		

Year	Credits Issued This Year	Credits Issued
1	8,266	8,266
2	3,356	11,622
3	-	11,622
4	-	11,622
5	-	11,622

Camp Lakota Woodland
McHenry County Conservation Foundation
Inspected Plots



Carbon Biomass

Location: Hartland township, McHenry, Illinois, United States of America
Project: Camp Lakota, Series: Camp Lakota, Year: 2023
Generated: 8/26/2023

Stratum	Species	Trees		Carbon Storage	
		Number	SE	(metric ton)	SE
Wooded	Boxelder	98	±43	19.24	±13.73
	Shagbark hickory	801	±211	137.64	±35.71
	Honeylocust	16	±16	37.81	±36.64
	Black walnut	49	±35	5.97	±4.98
	Eastern red cedar	458	±365	68.83	±62.44
	Apple spp	33	±22	3.33	±2.35
	White mulberry	229	±67	77.70	±34.47
	Red pine	147	±115	35.94	±28.41
	Eastern white pine	278	±195	88.96	±46.31
	Eastern cottonwood	82	±79	19.37	±18.77
	Bigtooth aspen	98	±95	20.98	±20.33
	Black cherry	3,450	±462	771.09	±98.28
	White oak	409	±104	568.18	±184.02
	Bur oak	1,063	±357	451.11	±171.90
	Pin oak	932	±227	460.41	±104.55
	Northern red oak	638	±323	244.77	±131.20
	Willow spp	33	±32	10.84	±10.50
	American basswood	490	±251	43.64	±20.84
	American elm	114	±60	14.34	±7.58
	Siberian elm	49	±27	15.24	±9.70
	Elm spp	16	±16	2.72	±2.63
	Total	**9,482**	**±692**	**3,098.13**	**±271.43**

Carbon Biomass

Location: Hartland township, McHenry, Illinois, United States of America
Project: Camp Lakota, Series: Camp Lakota, Year: 2023
Generated: 8/26/2023

Biomass tC/acre calculation: Davey Resource Group conducted a sample forest assessment adhering to the standards set in CFC Tree Preservation Protocol Section 11.1.B. The sample established 43 sample plots sized at 1/10th-acre. Within every plot, each live tree at least 5” in diameter at 4.5’ above the ground where the height above the ground is measured on the uphill side of the tree was inventoried. Species, diameter, and overall tree condition were recorded for each tree. Davey Resource Group utilized i-Tree Eco to input the sample plot data to determine the carbon storage.

Carbon quantification is based on the sample plots. The metric tons of Carbon is 3,098.13. The standard error is 271.43.

Biomass tC/ac = (metric tons of carbon – standard error)/project area acres
(3,098.13 – 271.43)/70.3 = 40.21 (cell B11 on attachment 13)

Tree Inventory

Plot	ID		Survey Date	Species	Land Use	DBH 1 (in)	DBH 1: Height (ft)	DBH 1: Measured?	DBH 2 (in)	DBH 2: Height (ft)	DBH 2: Measured?	DBH 3 (in)	DBH 3: Height (ft)	DBH 3: Measured?	DBH 4 (in)	DBH 4: Height (ft)	DBH 4: Measured?	DBH 5 (in)	DBH 5: Height (ft)	DBH 5: Measured?	Crown: Condition	
1	1	1	8/17/2023	Shagbark hickory (Carya ovata)	Forest	10.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	2	2	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	3	3	8/17/2023	Shagbark hickory (Carya ovata)	Forest	10	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	4	4	8/17/2023	Shagbark hickory (Carya ovata)	Forest	11.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	5	5	8/17/2023	Shagbark hickory (Carya ovata)	Forest	6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	6	6	8/17/2023	Shagbark hickory (Carya ovata)	Forest	10.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	7	7	8/17/2023	Shagbark hickory (Carya ovata)	Forest	11.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	8	8	8/17/2023	Black cherry (Prunus serotina)	Forest	10.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	60% - 65%	
1	9	9	8/17/2023	Black cherry (Prunus serotina)	Forest	7.6	4.5	TRUE	4.1	4.5	TRUE			TRUE			TRUE			TRUE	40% - 45%	
1	10	10	8/17/2023	Black cherry (Prunus serotina)	Forest	8.6	4.5	TRUE	6.8	4.5	TRUE	5.4	4.5	TRUE			TRUE			TRUE	35% - 40%	
1	11	11	8/17/2023	Black cherry (Prunus serotina)	Forest	8.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
1	12	12	8/17/2023	Black cherry (Prunus serotina)	Forest	11.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
1	13	13	8/17/2023	Black cherry (Prunus serotina)	Forest	14.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
1	14	14	8/17/2023	Black cherry (Prunus serotina)	Forest	6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE		0%
1	15	15	8/17/2023	Black cherry (Prunus serotina)	Forest	5.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	65% - 70%	
1	16	16	8/17/2023	Shagbark hickory (Carya ovata)	Forest	5.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	17	17	8/17/2023	Shagbark hickory (Carya ovata)	Forest	7.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	18	18	8/17/2023	Shagbark hickory (Carya ovata)	Forest	7.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
1	19	19	8/17/2023	Shagbark hickory (Carya ovata)	Forest	6.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
2	1	1	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	11.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
2	2	2	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	12	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	3	3	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	12.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
2	4	4	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	8.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	5	5	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	9.8	4.5	TRUE	9.1	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	6	6	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	7	4.5	TRUE	7.4	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	7	7	8/17/2023	Black cherry (Prunus serotina)	Forest	13.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
2	8	8	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	9.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
2	9	9	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	10.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
2	10	10	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	6.1	4.5	TRUE	2.8	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	11	11	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	6.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	12	12	8/17/2023	Black cherry (Prunus serotina)	Forest	10.2	4.5	TRUE	9.4	4.5	TRUE			TRUE			TRUE			TRUE	45% - 50%	
2	13	13	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	8.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	14	14	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	5.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	15	15	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	7.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	16	16	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	10.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	17	17	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	9.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
2	18	18	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	10.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	19	19	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	6.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
2	20	20	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	9.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	21	21	8/17/2023	Black cherry (Prunus serotina)	Forest	12	4.5	TRUE	13.7	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%	
2	22	22	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	6.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	23	23	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	11.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	24	24	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	11.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	25	25	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	12.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
2	26	26	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	10.3	4.5	TRUE	6.2	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%	
3	1	1	8/17/2023	Eastern red cedar (Juniperus virginiana)	Forest	7.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
3	3	3	8/17/2023	Black cherry (Prunus serotina)	Forest	17	4.5	TRUE	12.1	4.5	TRUE			TRUE			TRUE			TRUE	40% - 45%	
3	4	4	8/17/2023	Black cherry (Prunus serotina)	Forest	11.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	35% - 40%	
4	1	1	8/18/2023	Black cherry (Prunus serotina)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
4	2	2	8/18/2023	Black cherry (Prunus serotina)	Forest	5.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
4	3	3	8/18/2023	Bur oak (Quercus macrocarpa)	Forest	28.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
4	4	4	8/18/2023	Black cherry (Prunus serotina)	Forest	7.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
4	5	5	8/18/2023	Black cherry (Prunus serotina)	Forest	6.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
4	6	6	8/18/2023	White oak (Quercus alba)	Forest	24.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
4	7	7	8/18/2023	Black cherry (Prunus serotina)	Forest	6.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
4	8	8	8/18/2023	Black cherry (Prunus serotina)	Forest	5.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
4	9	9	8/18/2023	Black cherry (Prunus serotina)	Forest	18	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
4	10	10	8/18/2023	Northern red oak (Quercus rubra)	Forest	18	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
4	11	11	8/18/2023	Boxelder (Acer negundo)	Forest	6.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
4	12	12	8/18/2023	White oak (Quercus alba)	Forest	18.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
5	1	1	8/18/2023	White oak (Quercus alba)	Forest	22	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	75% - 80%	
5	2	2	8/18/2023	Black cherry (Prunus serotina)	Forest	24.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	75% - 80%	
5	3	3	8/18/2023	American basswood (Tilia americana)	Forest	6.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
5	4	4	8/18/2023	American basswood (Tilia americana)	Forest	5.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	75% - 80%	
5	5	5	8/18/2023	Northern red oak (Quercus rubra)	Forest	23.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
5	6	6	8/18/2023	American basswood (Tilia americana)	Forest	5.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
5	7	7	8/18/2023	American basswood (Tilia americana)	Forest	5.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
5	8	8	8/18/2023	American basswood (Tilia americana)	Forest	5.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE		0%
5	9	9	8/18/2023	American basswood (Tilia americana)	Forest	12.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
5	10	10	8/18/2023	American basswood (Tilia americana)	Forest	10.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
5	11	11	8/18/2023	American basswood (Tilia americana)	Forest	17.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
5	12	12	8/18/2023	American basswood (Tilia americana)	Forest	5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE		0%
5	13	13	8/18/2023	Black cherry (Prunus serotina)	Forest	27.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
5	14	14	8/18/2023	Boxelder (Acer negundo)	Forest	8.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	45% - 50%	
5	15	15	8/18/2023	American basswood (Tilia americana)	Forest	9.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	75% - 80%	
5	16	16	8/18/2023	American basswood (Tilia americana)	Forest	8.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	25% - 30%	
6	1	1	8/18/2023	Northern red oak (Quercus rubra)	Forest	13.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
6	2	2	8/18/2023	American basswood (Tilia americana)	Forest	11.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
6	3	3	8/18/2023	Northern red oak (Quercus rubra)	Forest	8.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
6	4	4	8/18/2023	Northern red oak (Quercus rubra)	Forest	14.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE		0%
6	5	5	8/18/2023	Black cherry (Prunus serotina)	Forest	9.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
6	6	6	8/18/2023	Northern red oak (Quercus rubra)	Forest	11.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
6	7	7	8/18/2023	Black cherry (Prunus serotina)	Forest	9.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	50% - 55%	
6	8	8	8/18/2023	Northern red oak (Quercus rubra)	Forest	11.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
6	9	9	8/18/2023	Northern red oak (Quercus rubra)	Forest	13.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
6	10	10	8/18/2023	American basswood (Tilia americana)	Forest	5.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
6	11	11	8/18/2023	Black cherry (Prunus serotina)	Forest	7.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
6	12	12	8/18/2023	Northern red oak (Quercus rubra)	Forest	10.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
6	13	13	8/18/2023	Northern red oak (Quercus rubra)	Forest	13.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
6	14	14	8/18/2023	Northern red oak (Quercus rubra)	Forest	13.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
6	15	15	8/18/2023	Northern red oak (Quercus rubra)	Forest	17.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
6	16	16	8/18/2023	Northern red oak (Quercus rubra)	Forest	6.5	4.5	TRUE	5.3	4.5	TRUE			TRUE			TRUE			TRUE		0%
6	17	17	8/18/2023	Black cherry (Prunus serotina)	Forest	6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	75% - 80%	
6	18	18	8/18/2023	Northern red oak (Quercus rubra)	Forest	14.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
6	19	19	8/18/2023	Northern red oak (Quercus rubra)	Forest	9.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	75% - 80%	
6	20	20	8/18/2023	Northern red oak (Quercus rubra)	Forest	8.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
6	21	21	8/18/2023	Northern red oak (Quercus rubra)	Forest	14.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	75% - 80%	
6	22	22	8/18/2023	American basswood (Tilia americana)	Forest	15.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
6	23	23	8/18/2023	Black cherry (Prunus serotina)	Forest	7.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	25% - 30%	
6	24	24	8/18/2023	American basswood (Tilia americana)	Forest	8.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
6	25	25	8/18/2023	Northern red oak (Quercus rubra)	Forest	8.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
7	1	1	8/18/2023	Northern red oak (Quercus rubra)	Forest	16.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	2	2	8/18/2023	Black cherry (Prunus serotina)	Forest	10.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
7	3	3	8/18/2023	Northern red oak (Quercus rubra)	Forest	16.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	4	4	8/18/2023	Northern red oak (Quercus rubra)	Forest	20.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	5	5	8/18/2023	Black cherry (Prunus serotina)	Forest	6.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	6	6	8/18/2023	Northern red oak (Quercus rubra)	Forest	22.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	7	7	8/18/2023	Northern red oak (Quercus rubra)	Forest	16.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
7	8	8	8/18/2023	Northern red oak (Quercus rubra)	Forest	17.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	9	9	8/18/2023	Northern red oak (Quercus rubra)	Forest	14.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	10	10	8/18/2023	Northern red oak (Quercus rubra)	Forest	13.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	11	11	8/18/2023	Northern red oak (Quercus rubra)	Forest	11.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	12	12	8/18/2023	Northern red oak (Quercus rubra)	Forest	9.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	13	13	8/18/2023	Northern red oak (Quercus rubra)	Forest	8.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
7	14	14	8/18/2023	Northern red oak (Quercus rubra)	Forest	21.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
7	15	15	8/18/2023	Northern red oak (Quercus rubra)	Forest	8.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
8	1	1	8/17/2023	Black cherry (Prunus serotina)	Forest	5.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
8	2	2	8/17/2023	Siberian elm (Ulmus pumila)	Forest	13.7	4.5	TRUE	9.7	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%	
8	3	3	8/17/2023	Black cherry (Prunus serotina)	Forest	6	4.5	TRUE	5.6	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%	
8	4	4	8/17/2023	Shagbark hickory (Carya ovata)	Forest	5.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE		100%
9	1	1	8/17/2023	Pin oak (Quercus palustris)	Forest	14.7	4.5	TRUE	9.5	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%	
9	2	2	8/17/2023	Pin oak (Quercus palustris)	Forest	11.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
9	3	3	8/17/2023	Pin oak (Quercus palustris)	Forest	7.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
9	4	4	8/17/2023	Black cherry (Prunus serotina)	Forest	9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
9	5	5	8/17/2023	Pin oak (Quercus palustris)	Forest	15.1	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
9	6	6	8/17/2023	Pin oak (Quercus palustris)	Forest	6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
9	7	7	8/17/2023	Black cherry (Prunus serotina)	Forest	6.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
9	8	8	8/17/2023	White oak (Quercus alba)	Forest	33.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
9	9	9	8/17/2023	Black cherry (Prunus serotina)	Forest	5.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
9	10	10	8/17/2023	Black cherry (Prunus serotina)	Forest	5.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	20% - 25%	
9	11	11	8/17/2023	Black cherry (Prunus serotina)	Forest	5.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
9	12	12	8/17/2023	Pin oak (Quercus palustris)	Forest	12.9	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
9	13	13	8/17/2023	Pin oak (Quercus palustris)	Forest	16.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
9	14	14	8/17/2023	Black cherry (Prunus serotina)	Forest	9.2	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	85% - 90%	
9	15	15	8/17/2023	Northern red oak (Quercus rubra)	Forest	9.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE		0%
9	16	16	8/17/2023	Northern red oak (Quercus rubra)	Forest	11.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	75% - 80%	
9	17	17	8/17/2023	Pin oak (Quercus palustris)	Forest	14.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
9	18	18	8/17/2023	Pin oak (Quercus palustris)	Forest	13.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	80% - 85%	
9	19	19	8/17/2023	Northern red oak (Quercus rubra)	Forest	6.5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE		0%
10	1	1	8/17/2023	White oak (Quercus alba)	Forest	5	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	90% - 95%	
10	2	2	8/17/2023	Black cherry (Prunus serotina)	Forest	10.6	4.5	TRUE	7.8	4.5	TRUE	8.9	4.5	TRUE			TRUE			TRUE	60% - 65%	
10	3	3	8/17/2023	Northern red oak (Quercus rubra)	Forest	7.8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	65% - 70%	
10	4	4	8/17/2023	Shagbark hickory (Carya ovata)	Forest	11.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
10	5	5	8/17/2023	Shagbark hickory (Carya ovata)	Forest	9.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
10	6	6	8/17/2023	Shagbark hickory (Carya ovata)	Forest	10.3	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
10	7	7	8/17/2023	Pin oak (Quercus palustris)	Forest	16	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
10	8	8	8/17/2023	Black cherry (Prunus serotina)	Forest	11.7	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	70% - 75%	
11	1	1	8/17/2023	Black cherry (Prunus serotina)	Forest	9.6	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	65% - 70%	
11	2	2	8/17/2023	Bur oak (Quercus macrocarpa)	Forest	11.2	4.5	TRUE	9.1	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%	
11	3	3	8/17/2023	Black cherry (Prunus serotina)	Forest	8	4.5	TRUE	7.1	4.5	TRUE	6.3	4.5	TRUE			TRUE			TRUE	75% - 80%	
11	4	4	8/17/2023	Shagbark hickory (Carya ovata)	Forest	7.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	95% - 99%	
11	5	5	8/17/2023	Black cherry (Prunus serotina)	Forest	14.4	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	45% - 50%	
11	6	6	8/17/2023	Black cherry (Prunus serotina)	Forest	8	4.5	TRUE			TRUE			TRUE			TRUE			TRUE	65% - 70%	

11	7	8/17/2023	Black cherry (Prunus serotina)	Forest	8.7	4.5	TRUE	9.6	4.5	TRUE	TRUE	TRUE	TRUE	60% - 65%	
11	8	8/17/2023	Black cherry (Prunus serotina)	Forest	9.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
12	1	8/18/2023	American basswood (Tilia americana)	Forest	11.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
12	2	8/18/2023	American basswood (Tilia americana)	Forest	9.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
12	3	8/18/2023	American basswood (Tilia americana)	Forest	5.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
12	4	8/18/2023	American basswood (Tilia americana)	Forest	9.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
12	5	8/18/2023	American basswood (Tilia americana)	Forest	10	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
12	6	8/18/2023	American basswood (Tilia americana)	Forest	5.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
12	7	8/18/2023	White oak (Quercus alba)	Forest	32.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
12	8	8/18/2023	Bur oak (Quercus macrocarpa)	Forest	31.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
12	9	8/18/2023	American basswood (Tilia americana)	Forest	8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
12	10	8/18/2023	American basswood (Tilia americana)	Forest	6.1	4.5	TRUE	2.4	4.5	TRUE	TRUE	TRUE	TRUE	85% - 90%	
12	11	8/18/2023	American basswood (Tilia americana)	Forest	5.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
12	12	8/18/2023	White oak (Quercus alba)	Forest	27.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	45% - 50%	
12	13	8/18/2023	White oak (Quercus alba)	Forest	16.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	45% - 50%	
12	14	8/18/2023	American basswood (Tilia americana)	Forest	6.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
12	15	8/18/2023	American basswood (Tilia americana)	Forest	5.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	1% - 5%	
13	1	8/21/2023	Black cherry (Prunus serotina)	Forest	5.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		0%
13	2	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	32.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	50% - 55%	
13	3	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	19.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
13	4	8/21/2023	Black cherry (Prunus serotina)	Forest	7.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	70% - 75%	
13	5	8/21/2023	Black cherry (Prunus serotina)	Forest	5.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	35% - 40%	
13	6	8/21/2023	Black cherry (Prunus serotina)	Forest	5.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	70% - 75%	
13	7	8/21/2023	Black cherry (Prunus serotina)	Forest	9.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	70% - 75%	
13	8	8/21/2023	Pin oak (Quercus palustris)	Forest	10.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
13	9	8/21/2023	Pin oak (Quercus palustris)	Forest	13.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
13	10	8/21/2023	Black cherry (Prunus serotina)	Forest	9.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		0%
13	11	8/21/2023	Black cherry (Prunus serotina)	Forest	7.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		0%
13	12	8/21/2023	Black cherry (Prunus serotina)	Forest	14.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
13	13	8/21/2023	Black cherry (Prunus serotina)	Forest	8.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		0%
13	14	8/21/2023	Apple spp (Malus)	Forest	6.8	4.5	FALSE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
13	15	8/21/2023	Black cherry (Prunus serotina)	Forest	11.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
13	16	8/21/2023	Shagbark hickory (Carya ovata)	Forest	5.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
13	17	8/21/2023	Black cherry (Prunus serotina)	Forest	8.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
13	18	8/21/2023	Black cherry (Prunus serotina)	Forest	6.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	70% - 75%	
13	19	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	26.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
13	20	8/21/2023	Black cherry (Prunus serotina)	Forest	7.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
13	21	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	32.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
13	22	8/21/2023	Black cherry (Prunus serotina)	Forest	9.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
14	1	8/21/2023	Eastern white pine (Pinus strobus)	Forest	11.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
14	2	8/21/2023	Eastern white pine (Pinus strobus)	Forest	9.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
14	3	8/21/2023	Eastern white pine (Pinus strobus)	Forest	9.6	4.5	TRUE	5.7	4.5	TRUE	TRUE	TRUE	TRUE	90% - 95%	
14	4	8/21/2023	Eastern white pine (Pinus strobus)	Forest	7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
14	5	8/21/2023	Black walnut (Juglans nigra)	Forest	7.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
14	6	8/21/2023	Eastern white pine (Pinus strobus)	Forest	13.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
14	7	8/21/2023	Eastern white pine (Pinus strobus)	Forest	11.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
14	8	8/21/2023	Eastern white pine (Pinus strobus)	Forest	10.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
14	9	8/21/2023	Eastern white pine (Pinus strobus)	Forest	9.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
14	10	8/21/2023	Eastern white pine (Pinus strobus)	Forest	10.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
14	11	8/21/2023	Eastern red cedar (Juniperus virginiana)	Forest	5.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
14	12	8/21/2023	Eastern red cedar (Juniperus virginiana)	Forest	6.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
14	13	8/21/2023	Black walnut (Juglans nigra)	Forest	11.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
14	14	8/21/2023	Eastern white pine (Pinus strobus)	Forest	15.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
14	15	8/21/2023	Eastern white pine (Pinus strobus)	Forest	6.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
14	16	8/21/2023	Eastern white pine (Pinus strobus)	Forest	10.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
15	1	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	5.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
15	2	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	6.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
15	3	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	5.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
15	4	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	5.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
15	5	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	5.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
15	6	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
15	7	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	9.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
15	8	8/21/2023	Black cherry (Prunus serotina)	Forest	11.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
15	9	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	5.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
15	10	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	7.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
15	11	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	5.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
15	12	8/21/2023	Black cherry (Prunus serotina)	Forest	12.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
15	13	8/21/2023	Black cherry (Prunus serotina)	Forest	11.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
15	14	8/21/2023	Black cherry (Prunus serotina)	Forest	11.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
16	1	8/21/2023	Black cherry (Prunus serotina)	Forest	6.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
16	2	8/21/2023	Black cherry (Prunus serotina)	Forest	8.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
16	3	8/21/2023	Bigtooth aspen (Populus grandidentata)	Forest	5.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
16	4	8/21/2023	Bigtooth aspen (Populus grandidentata)	Forest	20.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
16	5	8/21/2023	Bigtooth aspen (Populus grandidentata)	Forest	17.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
16	6	8/21/2023	White oak (Quercus alba)	Forest	7.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
16	7	8/21/2023	Bigtooth aspen (Populus grandidentata)	Forest	5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
16	8	8/21/2023	Bigtooth aspen (Populus grandidentata)	Forest	5.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
16	9	8/21/2023	Black cherry (Prunus serotina)	Forest	8.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
16	10	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
16	11	8/21/2023	Bigtooth aspen (Populus grandidentata)	Forest	5.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
16	12	8/21/2023	Black cherry (Prunus serotina)	Forest	8.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	70% - 75%	
16	13	8/21/2023	Black cherry (Prunus serotina)	Forest	7.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
16	14	8/21/2023	Shagbark hickory (Carya ovata)	Forest	8.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		100%
16	15	8/21/2023	Black cherry (Prunus serotina)	Forest	7.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
16	16	8/21/2023	Black cherry (Prunus serotina)	Forest	9.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
16	17	8/21/2023	White oak (Quercus alba)	Forest	21	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
16	18	8/21/2023	Black cherry (Prunus serotina)	Forest	8.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
16	19	8/21/2023	Black cherry (Prunus serotina)	Forest	5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		0%
16	20	8/21/2023	Black cherry (Prunus serotina)	Forest	7.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
16	21	8/21/2023	Shagbark hickory (Carya ovata)	Forest	5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
17	1	8/21/2023	White oak (Quercus alba)	Forest	27.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
17	2	8/21/2023	Pin oak (Quercus palustris)	Forest	13.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
17	3	8/21/2023	Black cherry (Prunus serotina)	Forest	5.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
17	4	8/21/2023	Pin oak (Quercus palustris)	Forest	6.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
17	5	8/21/2023	Black cherry (Prunus serotina)	Forest	9.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
17	6	8/21/2023	Pin oak (Quercus palustris)	Forest	22.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	7	8/21/2023	Pin oak (Quercus palustris)	Forest	21.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	8	8/21/2023	Black cherry (Prunus serotina)	Forest	10.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	9	8/21/2023	Black cherry (Prunus serotina)	Forest	6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
17	10	8/21/2023	Black cherry (Prunus serotina)	Forest	6.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	11	8/21/2023	Shagbark hickory (Carya ovata)	Forest	5.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
17	12	8/21/2023	Northern red oak (Quercus rubra)	Forest	6.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
17	13	8/21/2023	Black cherry (Prunus serotina)	Forest	8.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	14	8/21/2023	White oak (Quercus alba)	Forest	5.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
17	15	8/21/2023	Black cherry (Prunus serotina)	Forest	7.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	16	8/21/2023	Shagbark hickory (Carya ovata)	Forest	11.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
17	17	8/21/2023	Black cherry (Prunus serotina)	Forest	5.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		0%
17	18	8/21/2023	Black cherry (Prunus serotina)	Forest	6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	19	8/21/2023	Black cherry (Prunus serotina)	Forest	5.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	20	8/21/2023	Black cherry (Prunus serotina)	Forest	8.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	21	8/21/2023	Black cherry (Prunus serotina)	Forest	8.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	70% - 75%	
17	22	8/21/2023	White mulberry (Morus alba)	Forest	5.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
17	23	8/21/2023	Black cherry (Prunus serotina)	Forest	8.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
18	1	8/21/2023	Pin oak (Quercus palustris)	Forest	12.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
18	2	8/21/2023	Pin oak (Quercus palustris)	Forest	28	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
18	3	8/21/2023	Pin oak (Quercus palustris)	Forest	12.5	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
18	4	8/21/2023	Pin oak (Quercus palustris)	Forest	18.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
18	5	8/21/2023	Black cherry (Prunus serotina)	Forest	7.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
18	6	8/21/2023	Black cherry (Prunus serotina)	Forest	12.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
18	7	8/21/2023	Pin oak (Quercus palustris)	Forest	5.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		0%
18	8	8/21/2023	Pin oak (Quercus palustris)	Forest	6.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
18	9	8/21/2023	Black cherry (Prunus serotina)	Forest	9.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
18	10	8/21/2023	Black cherry (Prunus serotina)	Forest	17.1	4.5	TRUE	14.9	4.5	TRUE	TRUE	TRUE	TRUE	75% - 80%	
18	11	8/21/2023	Shagbark hickory (Carya ovata)	Forest	5.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		100%
18	12	8/21/2023	Black cherry (Prunus serotina)	Forest	13.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
19	1	8/21/2023	White oak (Quercus alba)	Forest	32.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
19	2	8/21/2023	Black cherry (Prunus serotina)	Forest	7.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
19	3	8/21/2023	White oak (Quercus alba)	Forest	10.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
19	4	8/21/2023	Pin oak (Quercus palustris)	Forest	21.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
19	5	8/21/2023	White oak (Quercus alba)	Forest	17.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	85% - 90%	
20	1	8/18/2023	Black cherry (Prunus serotina)	Forest	6.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	40% - 45%	
20	2	8/18/2023	Black cherry (Prunus serotina)	Forest	7.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	45% - 50%	
20	3	8/18/2023	Black cherry (Prunus serotina)	Forest	7.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	70% - 75%	
20	4	8/18/2023	Black cherry (Prunus serotina)	Forest	6.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	70% - 75%	
20	5	8/18/2023	American basswood (Tilia americana)	Forest	6.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	95% - 99%	
20	6	8/18/2023	Black cherry (Prunus serotina)	Forest	9.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
20	7	8/18/2023	Pin oak (Quercus palustris)	Forest	17.7	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
20	8	8/18/2023	Pin oak (Quercus palustris)	Forest	15.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE		0%
20	9	8/18/2023	Black cherry (Prunus serotina)	Forest	6.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	55% - 60%	
20	10	8/18/2023	Black cherry (Prunus serotina)	Forest	8.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	70% - 75%	
20	11	8/18/2023	Black cherry (Prunus serotina)	Forest	5.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
20	12	8/18/2023	Black cherry (Prunus serotina)	Forest	7.4	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
20	13	8/18/2023	Bur oak (Quercus macrocarpa)	Forest	22.6	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
20	14	8/18/2023	American basswood (Tilia americana)	Forest	9.8	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	90% - 95%	
20	15	8/18/2023	Black cherry (Prunus serotina)	Forest	7.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
20	16	8/18/2023	Black cherry (Prunus serotina)	Forest	7.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	80% - 85%	
20	17	8/18/2023	Bur oak (Quercus macrocarpa)	Forest	24.9	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
20	18	8/18/2023	Black cherry (Prunus serotina)	Forest	5.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	65% - 70%	
20	19	8/18/2023	White oak (Quercus alba)	Forest	21.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	75% - 80%	
20	20	8/18/2023	Boxelder (Acer negundo)	Forest	8.1	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	65% - 70%	
20	21	8/18/2023	Black cherry (Prunus serotina)	Forest	5.3	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	20% - 25%	
21	1	8/21/2023	Black cherry (Prunus serotina)	Forest	9.3	4.5	TRUE	8.4	4.5	TRUE	TRUE	TRUE	TRUE		0%
21	2	8/21/2023	Black cherry (Prunus serotina)	Forest	9.2	4.5	TRUE			TRUE	TRUE	TRUE	TRUE	25% - 30%	
21	3	8/21/2023	Black cherry (Prunus serotina)	Forest	6.3	4.5	TRUE	9	4.5	TRUE	TRUE	TRUE	TRUE	15% - 20%	

21	4	8/21/2023	Black cherry (Prunus serotina)	Forest	10.7	4.5	TRUE			TRUE			TRUE			TRUE	60% - 65%		
21	5	8/21/2023	Shagbark hickory (Carya ovata)	Forest	12.6	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
21	6	8/21/2023	Pin oak (Quercus palustris)	Forest	7	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
21	7	8/21/2023	Black cherry (Prunus serotina)	Forest	8.2	4.5	TRUE			TRUE			TRUE			TRUE	65% - 70%		
21	8	8/21/2023	Shagbark hickory (Carya ovata)	Forest	7.4	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
21	9	8/21/2023	Black cherry (Prunus serotina)	Forest	6.5	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
21	10	8/21/2023	Black cherry (Prunus serotina)	Forest	6.9	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
21	11	8/21/2023	Black cherry (Prunus serotina)	Forest	6.7	4.5	TRUE			TRUE			TRUE			TRUE			0%
21	12	8/21/2023	American elm (Ulmus americana)	Forest	15.8	4.5	TRUE			TRUE			TRUE			TRUE	90% - 95%		
21	13	8/21/2023	Black cherry (Prunus serotina)	Forest	5.9	4.5	TRUE			TRUE			TRUE			TRUE			0%
21	14	8/21/2023	Pin oak (Quercus palustris)	Forest	8.6	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
21	15	8/21/2023	Black cherry (Prunus serotina)	Forest	8.6	4.5	TRUE			TRUE			TRUE			TRUE			0%
22	1	8/18/2023	White oak (Quercus alba)	Forest	32.7	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
22	2	8/18/2023	American elm (Ulmus americana)	Forest	7.9	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
22	3	8/18/2023	Black cherry (Prunus serotina)	Forest	6.4	4.5	TRUE	10.3	4.5	TRUE			TRUE			TRUE	70% - 75%		
22	4	8/18/2023	American elm (Ulmus americana)	Forest	9	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
22	5	8/18/2023	White mulberry (Morus alba)	Forest	8.6	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
22	6	8/18/2023	White oak (Quercus alba)	Forest	26.3	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
22	7	8/18/2023	White oak (Quercus alba)	Forest	23.7	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
22	8	8/18/2023	American elm (Ulmus americana)	Forest	6.8	4.5	TRUE			TRUE			TRUE			TRUE	90% - 95%		
22	9	8/18/2023	White oak (Quercus alba)	Forest	20.7	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
22	10	8/18/2023	American basswood (Tilia americana)	Forest	12.2	4.5	TRUE	6.5	4.5	TRUE			TRUE			TRUE	90% - 95%		
22	11	8/18/2023	Black cherry (Prunus serotina)	Forest	8.7	4.5	TRUE			TRUE			TRUE			TRUE	20% - 25%		
22	12	8/18/2023	White mulberry (Morus alba)	Forest	8.7	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
22	13	8/18/2023	American basswood (Tilia americana)	Forest	8.7	4.5	TRUE	5.2	4.5	TRUE			TRUE			TRUE	75% - 80%		
23	1	8/21/2023	White mulberry (Morus alba)	Forest	7.7	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	2	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	9.1	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	3	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	11.3	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
23	4	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	5.3	4.5	TRUE			TRUE			TRUE			TRUE			0%
23	5	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	9.6	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
23	6	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	10.1	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
23	7	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	11.3	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	8	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	9.1	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	9	8/21/2023	Red pine (Pinus resinosa)	Forest	14.7	4.5	TRUE			TRUE			TRUE			TRUE	90% - 95%		
23	10	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	6.8	4.5	TRUE	4.7	4.5	TRUE			TRUE			TRUE	85% - 90%		
23	11	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	6.6	4.5	TRUE			TRUE			TRUE			TRUE			0%
23	12	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	10.3	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	13	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	7.8	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	14	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	9.6	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	15	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	16	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	14	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
23	17	8/21/2023	American elm (Ulmus americana)	Forest	7.4	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
23	18	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	15.4	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	19	8/21/2023	Red pine (Pinus resinosa)	Forest	10.3	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	20	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	7.9	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	21	8/21/2023	Bur oak (Quercus macrocarpa)	Forest	7.8	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
23	22	8/21/2023	American elm (Ulmus americana)	Forest	9.4	4.5	TRUE			TRUE			TRUE			TRUE			0%
23	23	8/21/2023	White mulberry (Morus alba)	Forest	5.3	4.5	TRUE			TRUE			TRUE			TRUE	90% - 95%		
25	1	8/22/2023	Pin oak (Quercus palustris)	Forest	26.2	4.5	TRUE			TRUE			TRUE			TRUE	90% - 95%		
25	2	8/22/2023	Black cherry (Prunus serotina)	Forest	7.8	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
25	3	8/22/2023	Pin oak (Quercus palustris)	Forest	14	4.5	TRUE	22.7	4.5	TRUE			TRUE			TRUE	90% - 95%		
25	4	8/22/2023	Black cherry (Prunus serotina)	Forest	8.3	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
25	5	8/22/2023	Black cherry (Prunus serotina)	Forest	5.4	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
25	6	8/22/2023	Black cherry (Prunus serotina)	Forest	6.2	4.5	TRUE	7	4.5	TRUE			TRUE			TRUE	50% - 55%		
25	7	8/22/2023	Siberian elm (Ulmus pumila)	Forest	13.5	4.5	TRUE			TRUE			TRUE			TRUE	60% - 65%		
25	8	8/22/2023	Boxelder (Acer negundo)	Forest	5.8	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
25	9	8/22/2023	Black cherry (Prunus serotina)	Forest	16	4.5	TRUE	8.9	4.5	TRUE			TRUE			TRUE	75% - 80%		
25	10	8/22/2023	Black cherry (Prunus serotina)	Forest	8.3	4.5	TRUE	16.1	4.5	TRUE			TRUE			TRUE	70% - 75%		
26	1	8/22/2023	Black cherry (Prunus serotina)	Forest	8.6	4.5	TRUE	6.2	4.5	TRUE			TRUE			TRUE	70% - 75%		
26	2	8/22/2023	Black cherry (Prunus serotina)	Forest	7.4	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
26	3	8/22/2023	Black cherry (Prunus serotina)	Forest	11	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
26	4	8/22/2023	Black cherry (Prunus serotina)	Forest	10.5	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
26	5	8/22/2023	Black cherry (Prunus serotina)	Forest	6.2	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
26	6	8/22/2023	Black cherry (Prunus serotina)	Forest	8	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
26	7	8/22/2023	Black cherry (Prunus serotina)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE	50% - 55%		
26	8	8/22/2023	Black cherry (Prunus serotina)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE	60% - 65%		
26	9	8/22/2023	Black cherry (Prunus serotina)	Forest	10.3	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
26	10	8/22/2023	Black cherry (Prunus serotina)	Forest	5.4	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
26	11	8/22/2023	Pin oak (Quercus palustris)	Forest	10.1	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
26	12	8/22/2023	Black cherry (Prunus serotina)	Forest	5.4	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
26	13	8/22/2023	Black cherry (Prunus serotina)	Forest	6	4.5	TRUE	6.8	4.5	TRUE	10.5	4.5	TRUE	5.2	4.5	TRUE	65% - 70%		
26	14	8/22/2023	Pin oak (Quercus palustris)	Forest	12.7	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
26	15	8/22/2023	Black cherry (Prunus serotina)	Forest	7	4.5	TRUE	7.5	4.5	TRUE			TRUE			TRUE			0%
26	16	8/22/2023	Black cherry (Prunus serotina)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
26	17	8/22/2023	Black cherry (Prunus serotina)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
26	18	8/22/2023	Black cherry (Prunus serotina)	Forest	6.1	4.5	TRUE	6.2	4.5	TRUE			TRUE			TRUE	75% - 80%		
26	19	8/22/2023	White oak (Quercus alba)	Forest	11.1	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
26	20	8/22/2023	Northern red oak (Quercus rubra)	Forest	18	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
26	21	8/22/2023	Bur oak (Quercus macrocarpa)	Forest	8.9	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
26	22	8/22/2023	Pin oak (Quercus palustris)	Forest	19.3	4.5	TRUE			TRUE			TRUE			TRUE	90% - 95%		
27	1	8/22/2023	Black cherry (Prunus serotina)	Forest	11.9	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
27	2	8/22/2023	Black cherry (Prunus serotina)	Forest	9.8	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
27	3	8/22/2023	Black cherry (Prunus serotina)	Forest	6.6	4.5	TRUE			TRUE			TRUE			TRUE	55% - 60%		
27	4	8/22/2023	White oak (Quercus alba)	Forest	39.9	4.5	TRUE			TRUE			TRUE			TRUE	60% - 65%		
27	5	8/22/2023	Black cherry (Prunus serotina)	Forest	7.8	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
27	6	8/22/2023	Black cherry (Prunus serotina)	Forest	5.5	4.5	TRUE			TRUE			TRUE			TRUE			0%
27	7	8/22/2023	Black cherry (Prunus serotina)	Forest	5.8	4.5	TRUE			TRUE			TRUE			TRUE			0%
27	8	8/22/2023	Black cherry (Prunus serotina)	Forest	8.6	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
27	9	8/22/2023	Black cherry (Prunus serotina)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
27	10	8/22/2023	Black cherry (Prunus serotina)	Forest	10.4	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
27	11	8/22/2023	Black cherry (Prunus serotina)	Forest	9.2	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
27	12	8/22/2023	Black cherry (Prunus serotina)	Forest	9.8	4.5	TRUE			TRUE			TRUE			TRUE	65% - 70%		
27	13	8/22/2023	Black cherry (Prunus serotina)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE			0%
27	14	8/22/2023	Black cherry (Prunus serotina)	Forest	9.8	4.5	TRUE			TRUE			TRUE			TRUE			0%
27	15	8/22/2023	White mulberry (Morus alba)	Forest	11.8	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
27	16	8/22/2023	White mulberry (Morus alba)	Forest	10	4.5	TRUE	7	4.5	TRUE	9.3	4.5	TRUE			TRUE	45% - 50%		
27	17	8/22/2023	Black cherry (Prunus serotina)	Forest	8.5	4.5	TRUE			TRUE			TRUE			TRUE	55% - 60%		
27	18	8/22/2023	Black cherry (Prunus serotina)	Forest	5	4.5	TRUE			TRUE			TRUE			TRUE			0%
30	1	8/22/2023	Black cherry (Prunus serotina)	Forest	5.5	4.5	TRUE			TRUE			TRUE			TRUE	65% - 70%		
30	2	8/22/2023	Willow spp (Salix)	Forest	12.5	4.5	TRUE	5.9	4.5	TRUE			TRUE			TRUE	95% - 99%		
30	3	8/22/2023	Willow spp (Salix)	Forest	14.6	4.5	TRUE			TRUE			TRUE			TRUE	90% - 95%		
32	1	8/22/2023	Shagbark hickory (Carya ovata)	Forest	7.3	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
32	2	8/22/2023	Black cherry (Prunus serotina)	Forest	12.5	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
32	3	8/22/2023	Shagbark hickory (Carya ovata)	Forest	10.4	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
32	4	8/22/2023	Black cherry (Prunus serotina)	Forest	7.1	4.5	TRUE	7.1	4.5	TRUE			TRUE			TRUE	75% - 80%		
32	5	8/22/2023	Shagbark hickory (Carya ovata)	Forest	10.4	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
32	6	8/22/2023	Shagbark hickory (Carya ovata)	Forest	7.1	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
32	7	8/22/2023	Shagbark hickory (Carya ovata)	Forest	8.2	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
32	8	8/22/2023	Black cherry (Prunus serotina)	Forest	6.6	4.5	TRUE			TRUE			TRUE			TRUE			0%
32	9	8/22/2023	Shagbark hickory (Carya ovata)	Forest	9.8	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
34	1	8/22/2023	Black cherry (Prunus serotina)	Forest	10.5	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
34	2	8/22/2023	Shagbark hickory (Carya ovata)	Forest	13.8	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
34	3	8/22/2023	Black cherry (Prunus serotina)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
34	4	8/22/2023	Northern red oak (Quercus rubra)	Forest	6.3	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
34	5	8/22/2023	Pin oak (Quercus palustris)	Forest	24.4	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
34	6	8/22/2023	Black cherry (Prunus serotina)	Forest	11.8	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
34	7	8/22/2023	White mulberry (Morus alba)	Forest	5.8	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
34	8	8/22/2023	Black cherry (Prunus serotina)	Forest	10.6	4.5	TRUE	8.8	4.5	TRUE			TRUE			TRUE	85% - 90%		
34	9	8/22/2023	Black cherry (Prunus serotina)	Forest	10.5	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
34	10	8/22/2023	Black cherry (Prunus serotina)	Forest	6.5	4.5	TRUE			TRUE			TRUE			TRUE			0%
34	11	8/22/2023	Black cherry (Prunus serotina)	Forest	9	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
34	12	8/22/2023	Siberian elm (Ulmus pumila)	Forest	8	4.5	TRUE			TRUE			TRUE			TRUE	65% - 70%		
34	13	8/22/2023	Black cherry (Prunus serotina)	Forest	5.9	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
34	14	8/22/2023	Black cherry (Prunus serotina)	Forest	5.2	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
35	1	8/22/2023	Red pine (Pinus resinosa)	Forest	16.4	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
35	2	8/22/2023	Red pine (Pinus resinosa)	Forest	19.1	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
35	3	8/22/2023	Red pine (Pinus resinosa)	Forest	11	4.5	TRUE	11.8	4.5	TRUE			TRUE			TRUE	85% - 90%		
35	4	8/22/2023	Red pine (Pinus resinosa)	Forest	10.1	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
35	5	8/22/2023	Red pine (Pinus resinosa)	Forest	10.4	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
35	6	8/22/2023	Boxelder (Acer negundo)	Forest	13.5	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
35	7	8/22/2023	Red pine (Pinus resinosa)	Forest	9	4.5	TRUE			TRUE			TRUE			TRUE			0%
35	8	8/22/2023	White mulberry (Morus alba)	Forest	15	4.5	TRUE	13.2	4.5	TRUE			TRUE			TRUE	70% - 75%		
35	9	8/22/2023	White mulberry (Morus alba)	Forest	12.6	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
35	10	8/22/2023	Red pine (Pinus resinosa)	Forest	6.6	4.5	TRUE			TRUE			TRUE			TRUE			0%
35	11	8/22/2023	Black cherry (Prunus serotina)	Forest	28.5	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
35	12	8/22/2023	Boxelder (Acer negundo)	Forest	9	4.5	TRUE	8.7	4.5	TRUE	11.8	4.5	TRUE			TRUE	80% - 85%		
38	1	8/22/2023	Eastern white pine (Pinus strobus)	Forest	29.9	4.5	TRUE			TRUE			TRUE			TRUE	90% - 95%		
38	2	8/22/2023	Black cherry (Prunus serotina)	Forest	18.3	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
38	3	8/22/2023	Eastern white pine (Pinus strobus)	Forest	24.9	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
38	4	8/22/2023	Black cherry (Prunus serotina)	Forest	8.3	4.5	TRUE			TRUE			TRUE			TRUE	70% - 75%		
38	5	8/22/2023	White mulberry (Morus alba)	Forest	6.1	4.5	TRUE			TRUE			TRUE			TRUE	65% - 70%		
38	6	8/22/2023	Eastern white pine (Pinus strobus)	Forest	22.5	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
38	7	8/22/2023	Black cherry (Prunus serotina)	Forest	15.6	4.5	TRUE			TRUE			TRUE			TRUE	60% - 65%		
38	8	8/22/2023	Black cherry (Prunus serotina)	Forest	18.6	4.5	TRUE			TRUE			TRUE			TRUE	60% - 65%		
38	9	8/22/2023	Black cherry (Prunus serotina)	Forest	15.4	4.5	TRUE			TRUE			TRUE			TRUE	75% - 80%		
41	1	8/22/2023	Shagbark hickory (Carya ovata)	Forest	5.4	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
41	2	8/22/2023	Pin oak (Quercus palustris)	Forest	14.1	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
41	3	8/22/2023	Black cherry (Prunus serotina)	Forest	11.6	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
41	4	8/22/2023	Northern red oak (Quercus rubra)	Forest	6.2	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
41	5	8/22/2023	White oak (Quercus alba)	Forest	11.5	4.5	TRUE			TRUE			TRUE			TRUE	90% - 95%		
41	6	8/22/2023	Shagbark hickory (Carya ovata)	Forest	7.7	4.5	TRUE			TRUE			TRUE			TRUE	95% - 99%		
41	7	8/22/2023	Black cherry (Prunus serotina)	Forest	11.1	4.5	TRUE			TRUE			TRUE			TRUE	85% - 90%		
41	8	8/22/2023	Pin oak (Quercus palustris)	Forest	9.6	4.5	TRUE			TRUE			TRUE			TRUE	80% - 85%		
41	9	8/22/2023	Black cherry (Prunus serotina)	Forest	5.6	4.5	TRUE			TRUE			TRUE			TRUE			0%

41	10	8/22/2023	Black cherry (Prunus serotina)	Forest	7.4	4.5	TRUE			TRUE			TRUE			TRUE		65% - 70%	
41	11	8/22/2023	Black cherry (Prunus serotina)	Forest	13.3	4.5	TRUE	6.6	4.5	TRUE			TRUE			TRUE		80% - 85%	
41	12	8/22/2023	Black cherry (Prunus serotina)	Forest	8.3	4.5	TRUE	11.3	4.5	TRUE			TRUE			TRUE		85% - 90%	
41	13	8/22/2023	Pin oak (Quercus palustris)	Forest	16.6	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
41	14	8/22/2023	White mulberry (Morus alba)	Forest	9.3	4.5	TRUE			TRUE			TRUE			TRUE		75% - 80%	
41	15	8/22/2023	Black cherry (Prunus serotina)	Forest	10.7	4.5	TRUE	12.1	4.5	TRUE			TRUE			TRUE		80% - 85%	
41	16	8/22/2023	Black cherry (Prunus serotina)	Forest	8.8	4.5	TRUE			TRUE			TRUE			TRUE		70% - 75%	
41	17	8/22/2023	Pin oak (Quercus palustris)	Forest	10.3	4.5	TRUE			TRUE			TRUE			TRUE		75% - 80%	
44	1	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	11.9	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
44	2	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
44	3	8/23/2023	Shagbark hickory (Carya ovata)	Forest	12.2	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
44	4	8/23/2023	Pin oak (Quercus palustris)	Forest	25.4	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
44	5	8/23/2023	Eastern white pine (Pinus strobus)	Forest	24.3	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
45	1	8/23/2023	Black cherry (Prunus serotina)	Forest	8.3	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
45	2	8/23/2023	Black cherry (Prunus serotina)	Forest	9.6	4.5	TRUE	8.7	4.5	TRUE			TRUE			TRUE		90% - 95%	
45	3	8/23/2023	Black cherry (Prunus serotina)	Forest	10.1	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
45	4	8/23/2023	Black cherry (Prunus serotina)	Forest	8.9	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
45	5	8/23/2023	Black cherry (Prunus serotina)	Forest	7.2	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
45	6	8/23/2023	Pin oak (Quercus palustris)	Forest	10.4	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
46	1	8/25/2023	White oak (Quercus alba)	Forest	10.9	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
46	2	8/25/2023	Black cherry (Prunus serotina)	Forest	6.7	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
46	3	8/25/2023	Black cherry (Prunus serotina)	Forest	7.4	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
46	4	8/25/2023	White oak (Quercus alba)	Forest	11.1	4.5	TRUE			TRUE			TRUE			TRUE			0%
46	5	8/25/2023	Shagbark hickory (Carya ovata)	Forest	11.8	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
46	6	8/25/2023	Pin oak (Quercus palustris)	Forest	18.2	4.5	TRUE			TRUE			TRUE			TRUE		70% - 75%	
46	7	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	12.6	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
46	8	8/25/2023	Pin oak (Quercus palustris)	Forest	5.2	4.5	TRUE			TRUE			TRUE			TRUE		75% - 80%	
46	9	8/25/2023	Pin oak (Quercus palustris)	Forest	5.5	4.5	TRUE			TRUE			TRUE			TRUE		75% - 80%	
46	10	8/25/2023	Black cherry (Prunus serotina)	Forest	9.1	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
46	11	8/25/2023	Black cherry (Prunus serotina)	Forest	11	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
46	12	8/25/2023	Black cherry (Prunus serotina)	Forest	9	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
46	13	8/25/2023	Pin oak (Quercus palustris)	Forest	18.3	4.5	TRUE	9.2	4.5	TRUE			TRUE			TRUE		75% - 80%	
46	14	8/25/2023	Pin oak (Quercus palustris)	Forest	9.4	4.5	TRUE			TRUE			TRUE			TRUE		70% - 75%	
46	15	8/25/2023	Pin oak (Quercus palustris)	Forest	6	4.5	TRUE			TRUE			TRUE			TRUE			0%
46	16	8/25/2023	Apple spp (Malus)	Forest	8.6	4.5	TRUE			TRUE			TRUE			TRUE			0%
46	17	8/25/2023	Pin oak (Quercus palustris)	Forest	13.8	4.5	TRUE			TRUE			TRUE			TRUE		75% - 80%	
46	18	8/25/2023	Black cherry (Prunus serotina)	Forest	5.9	4.5	TRUE			TRUE			TRUE			TRUE		65% - 70%	
46	19	8/25/2023	Shagbark hickory (Carya ovata)	Forest	7.2	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
46	20	8/25/2023	Black cherry (Prunus serotina)	Forest	6.4	4.5	TRUE			TRUE			TRUE			TRUE		35% - 40%	
46	21	8/25/2023	Pin oak (Quercus palustris)	Forest	13.2	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
49	1	8/23/2023	Eastern cottonwood (Populus deltoides)	Forest	13.2	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
49	2	8/23/2023	Eastern cottonwood (Populus deltoides)	Forest	6.5	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
49	3	8/23/2023	Eastern cottonwood (Populus deltoides)	Forest	16.4	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
49	4	8/23/2023	Shagbark hickory (Carya ovata)	Forest	16.4	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
49	5	8/23/2023	Eastern cottonwood (Populus deltoides)	Forest	12.4		TRUE			TRUE			TRUE			TRUE		90% - 95%	
49	6	8/23/2023	Eastern cottonwood (Populus deltoides)	Forest	6.2		TRUE			TRUE			TRUE			TRUE		75% - 80%	
49	7	8/23/2023	Black walnut (Juglans nigra)	Forest	6.4		TRUE			TRUE			TRUE			TRUE		85% - 90%	
49	8	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	12.8		TRUE			TRUE			TRUE			TRUE		85% - 90%	
50	1	8/23/2023	Pin oak (Quercus palustris)	Forest	9.4	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
50	2	8/23/2023	Pin oak (Quercus palustris)	Forest	10.8	4.5	TRUE	8.7	4.5	TRUE			TRUE			TRUE		85% - 90%	
50	3	8/23/2023	Pin oak (Quercus palustris)	Forest	5.3	4.5	TRUE			TRUE			TRUE			TRUE			0%
50	4	8/23/2023	American elm (Ulmus americana)	Forest	8.4	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
50	5	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	5.9		TRUE	7.4		TRUE			TRUE			TRUE		55% - 60%	
50	6	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	5.3	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
50	7	8/23/2023	Elm spp (Ulmus)	Forest	10.3	4.5	TRUE			TRUE			TRUE			TRUE			0%
50	8	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	6.5	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
50	9	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	8.8	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
50	10	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	13.4		TRUE			TRUE			TRUE			TRUE		85% - 90%	
50	11	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	8.9		TRUE			TRUE			TRUE			TRUE		85% - 90%	
50	12	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	10		TRUE			TRUE			TRUE			TRUE		90% - 95%	
50	13	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	10.1	4.5	TRUE	3	4.5	TRUE			TRUE			TRUE		85% - 90%	
50	14	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	5.6	4.5	TRUE	4.4	4.5	TRUE			TRUE			TRUE			0%
50	15	8/23/2023	Pin oak (Quercus palustris)	Forest	13.8	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
50	16	8/23/2023	Bur oak (Quercus macrocarpa)	Forest	41.8	4.5	TRUE			TRUE			TRUE			TRUE		70% - 75%	
52	1	8/25/2023	Black cherry (Prunus serotina)	Forest	11.4	4.5	TRUE			TRUE			TRUE			TRUE			0%
52	2	8/25/2023	Honeylocust (Gleditsia triacanthos)	Forest	30.1	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
52	3	8/25/2023	Eastern red cedar (Juniperus virginiana)	Forest	5.3	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
52	4	8/25/2023	Eastern white pine (Pinus strobus)	Forest	30.2	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
52	5	8/25/2023	Black cherry (Prunus serotina)	Forest	11.5	4.5	TRUE	13.8	4.5	TRUE	12.5	4.5	TRUE			TRUE		80% - 85%	
53	1	8/25/2023	Shagbark hickory (Carya ovata)	Forest	11.9	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
53	2	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	11.3	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
53	3	8/25/2023	Black cherry (Prunus serotina)	Forest	7.6	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
53	4	8/25/2023	Black cherry (Prunus serotina)	Forest	9.8	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
53	5	8/25/2023	Black cherry (Prunus serotina)	Forest	12.9	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
53	6	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	7.5	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
53	7	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	6.9	4.5	TRUE			TRUE			TRUE			TRUE			0%
53	8	8/25/2023	Shagbark hickory (Carya ovata)	Forest	7.8	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
53	9	8/25/2023	Shagbark hickory (Carya ovata)	Forest	7	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
53	10	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	9.1	4.5	FALSE			TRUE			TRUE			TRUE		85% - 90%	
53	11	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	8.1	4.5	TRUE	3	4.5	TRUE	5.3	4.5	TRUE			TRUE		75% - 80%	
53	12	8/25/2023	Shagbark hickory (Carya ovata)	Forest	6.7	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
53	13	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	8	4.5	TRUE			TRUE			TRUE			TRUE		75% - 80%	
53	14	8/25/2023	Pin oak (Quercus palustris)	Forest	14.4	4.5	TRUE	17	4.5	TRUE			TRUE			TRUE		80% - 85%	
53	15	8/25/2023	Shagbark hickory (Carya ovata)	Forest	9.2	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
53	16	8/25/2023	Shagbark hickory (Carya ovata)	Forest	10.4	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
53	17	8/25/2023	Black cherry (Prunus serotina)	Forest	5.9	4.5	TRUE			TRUE			TRUE			TRUE			0%
54	1	8/25/2023	Black cherry (Prunus serotina)	Forest	12.9	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
54	2	8/25/2023	Black cherry (Prunus serotina)	Forest	6.8	4.5	TRUE			TRUE			TRUE			TRUE		20% - 25%	
54	3	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	5.1	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
54	4	8/25/2023	Shagbark hickory (Carya ovata)	Forest	5	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
54	5	8/25/2023	Black cherry (Prunus serotina)	Forest	6.5	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
54	6	8/25/2023	Black cherry (Prunus serotina)	Forest	5.2	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
54	7	8/25/2023	Pin oak (Quercus palustris)	Forest	7.7	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
54	8	8/25/2023	Black cherry (Prunus serotina)	Forest	6.9	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
54	9	8/25/2023	White mulberry (Morus alba)	Forest	4.8	4.5	TRUE	6.1	4.5	TRUE	3.2	4.5	TRUE	3.4	4.5	TRUE		40% - 45%	
56	1	8/25/2023	Shagbark hickory (Carya ovata)	Forest	10.2	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
56	2	8/25/2023	Shagbark hickory (Carya ovata)	Forest	6.3	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
56	3	8/25/2023	Pin oak (Quercus palustris)	Forest	17	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
56	4	8/25/2023	Black cherry (Prunus serotina)	Forest	5.6	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
56	5	8/25/2023	Pin oak (Quercus palustris)	Forest	17.4	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
56	6	8/25/2023	Black cherry (Prunus serotina)	Forest	5.9	4.5	TRUE			TRUE			TRUE			TRUE			0%
56	7	8/25/2023	Pin oak (Quercus palustris)	Forest	26.8	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
56	8	8/25/2023	Pin oak (Quercus palustris)	Forest	5.3	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
56	9	8/25/2023	Shagbark hickory (Carya ovata)	Forest	8.2	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
56	10	8/25/2023	Shagbark hickory (Carya ovata)	Forest	5.5	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
57	1	8/25/2023	Shagbark hickory (Carya ovata)	Forest	9.2	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
57	2	8/25/2023	White mulberry (Morus alba)	Forest	8.7	4.5	TRUE	14.4	4.5	TRUE	13.8	4.5	TRUE			TRUE		70% - 75%	
57	3	8/25/2023	Shagbark hickory (Carya ovata)	Forest	13.2	4.5	TRUE			TRUE			TRUE			TRUE		95% - 99%	
57	4	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	7.9	4.5	TRUE			TRUE			TRUE			TRUE		90% - 95%	
57	5	8/25/2023	Black cherry (Prunus serotina)	Forest	14.4	4.5	TRUE			TRUE			TRUE			TRUE		75% - 80%	
57	6	8/25/2023	Black cherry (Prunus serotina)	Forest	9.3	4.5	TRUE			TRUE			TRUE			TRUE			0%
57	7	8/25/2023	Black cherry (Prunus serotina)	Forest	9.4	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
57	8	8/25/2023	Black cherry (Prunus serotina)	Forest	7.6	4.5	TRUE			TRUE			TRUE			TRUE			0%
57	9	8/25/2023	Black cherry (Prunus serotina)	Forest	11.6	4.5	TRUE	12.9	4.5	TRUE			TRUE			TRUE		85% - 90%	
57	10	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	5.4	4.5	TRUE			TRUE			TRUE			TRUE			0%
57	11	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	8.9	4.5	TRUE			TRUE			TRUE			TRUE		80% - 85%	
57	12	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	6.7	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
57	13	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	9.6	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	
57	14	8/25/2023	Bur oak (Quercus macrocarpa)	Forest	11.5	4.5	TRUE			TRUE			TRUE			TRUE		85% - 90%	

ID	Stratum	Date	Crew	Size (ac)	Stake	% Tree	% Measured	Complete?
1	Wooded	8/17/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
2	Wooded	8/17/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
3	Wooded	8/17/2023	NP	0.1	FALSE	40% - 45%	100	TRUE
4	Wooded	8/18/2023	NP	0.1	FALSE	100%	100	TRUE
5	Wooded	8/18/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
6	Wooded	8/18/2023	NP	0.1	FALSE	100%	100	TRUE
7	Wooded	8/18/2023	NP	0.1	FALSE	90% - 95%	100	TRUE
8	Wooded	8/17/2023	NP	0.1	FALSE	90% - 95%	100	TRUE
9	Wooded	8/17/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
10	Wooded	8/17/2023	NP	0.1	FALSE	55% - 60%	100	TRUE
11	Wooded	8/17/2023	NP	0.1	FALSE	80% - 85%	100	TRUE
12	Wooded	8/18/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
13	Wooded	8/21/2023	NP	0.1	FALSE	100%	100	TRUE
14	Wooded	8/21/2023	NP	0.1	FALSE	100%	100	TRUE
15	Wooded	8/21/2023	NP	0.1	FALSE	100%	100	TRUE
16	Wooded	8/21/2023	NP	0.1	FALSE	100%	100	TRUE
17	Wooded	8/21/2023	NP	0.1	FALSE	100%	100	TRUE
18	Wooded	8/21/2023	NP	0.1	FALSE	100%	100	TRUE
19	Wooded	8/21/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
20	Wooded	8/18/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
21	Wooded	8/21/2023	NP	0.1	FALSE	85% - 90%	100	TRUE
22	Wooded	8/18/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
23	Wooded	8/21/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
24	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
25	Wooded	8/22/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
26	Wooded	8/22/2023	NP	0.1	FALSE	100%	100	TRUE
27	Wooded	8/22/2023	NP	0.1	FALSE	100%	100	TRUE
28	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
29	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
30	Wooded	8/22/2023	NP	0.1	FALSE	40% - 45%	100	TRUE
31	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
32	Wooded	8/22/2023	NP	0.1	FALSE	90% - 95%	100	TRUE
33	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
34	Wooded	8/22/2023	NP	0.1	FALSE	85% - 90%	100	TRUE
35	Wooded	8/22/2023	NP	0.1	FALSE	80% - 85%	100	TRUE
36	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
37	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
38	Wooded	8/22/2023	NP	0.1	FALSE	100%	100	TRUE
39	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
40	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
41	Wooded	8/22/2023	NP	0.1	FALSE	85% - 90%	100	TRUE
42	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
43	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
44	Wooded	8/23/2023	NP	0.1	FALSE	90% - 95%	100	TRUE
45	Wooded	8/23/2023	NP	0.1	FALSE	15% - 20%	100	TRUE
46	Wooded	8/25/2023	NP	0.1	FALSE	100%	100	TRUE

47	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
48	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
49	Wooded	8/23/2023	NP	0.1	FALSE	85% - 90%	100	TRUE
50	Wooded	8/23/2023	NP	0.1	FALSE	100%	100	TRUE
51	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
52	Wooded	8/25/2023	NP	0.1	FALSE	90% - 95%	100	TRUE
53	Wooded	8/25/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
54	Wooded	8/25/2023	NP	0.1	FALSE	75% - 80%	100	TRUE
55	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
56	Wooded	8/25/2023	NP	0.1	FALSE	85% - 90%	100	TRUE
57	Wooded	8/25/2023	NP	0.1	FALSE	95% - 99%	100	TRUE
58	Wooded	8/25/2023	NP	0.1	FALSE	1% - 5%	100	TRUE
59	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
60	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
61	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
62	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
63	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
64	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
65	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
66	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
67	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
68	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
69	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
70	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
71	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
72	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
73	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
74	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE
75	Wooded			0.1	FALSE	-- Not Entered --	100	FALSE

Plot	Land Use	% of Plot
1	Forest	100
2	Forest	100
3	Forest	100
4	Forest	100
5	Forest	100
6	Forest	100
7	Forest	100
8	Forest	100
9	Forest	100
10	Forest	100
11	Forest	100
12	Forest	100
13	Forest	100
14	Forest	100
15	Forest	100
16	Forest	100
17	Forest	100
18	Forest	100
19	Forest	100
20	Forest	100
21	Forest	100
22	Forest	100
23	Forest	100
25	Forest	100
26	Forest	100
27	Forest	100
30	Forest	100
32	Forest	100
34	Forest	100
35	Forest	100
38	Forest	100
41	Forest	100
44	Forest	100
45	Forest	100
46	Forest	100
49	Forest	100
50	Forest	100
52	Forest	100
53	Forest	100
54	Forest	100
56	Forest	100
57	Forest	100
58	Forest	100

Tree Characteristics Chart(s)

I. Tree Characteristics of the Urban Forest

The urban forest of CampLakota has an estimated 9,483 trees with a tree cover of 88.1 percent. The three most common species are Black cherry (36.4 percent), Bur oak (11.2 percent), and Pin oak (9.8 percent).

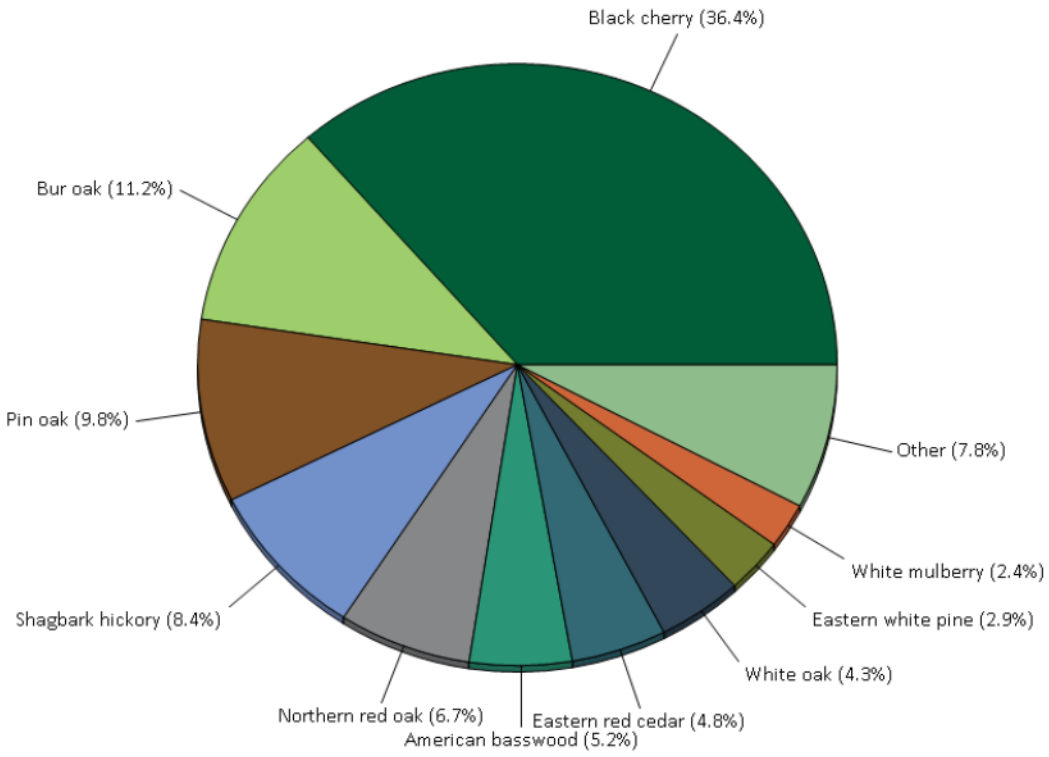


Figure 1. Tree species composition in CampLakota

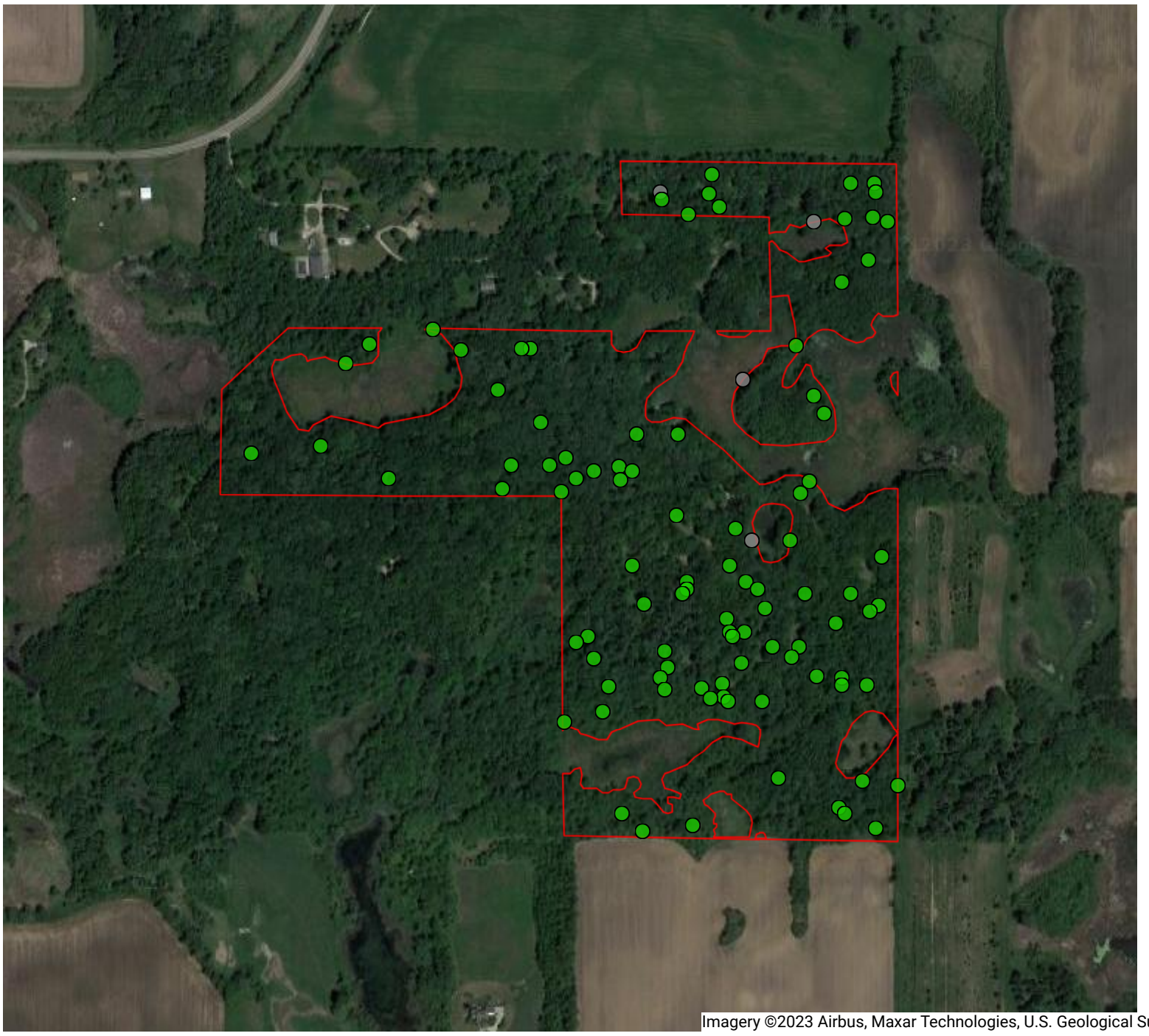
The overall tree density in CampLakota is 333 trees/hectare (see Appendix III for comparable values from other cities).

iTree Canopy Report

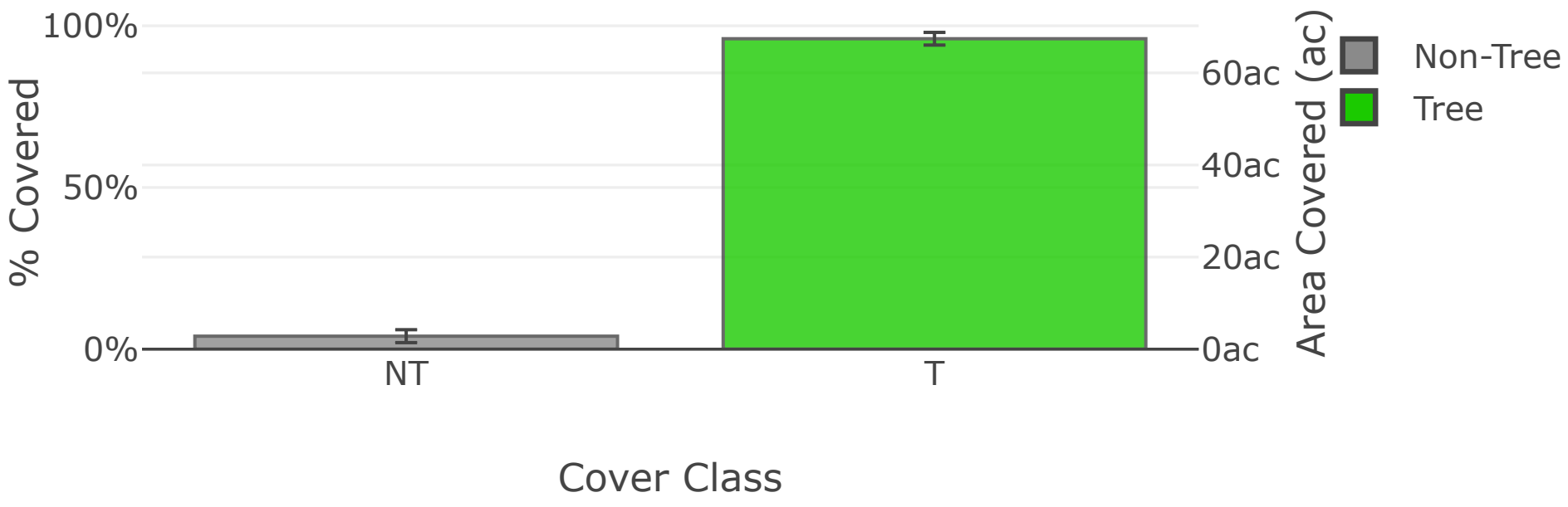
i-Tree Canopy

Cover Assessment and Tree Benefits Report

Estimated using random sampling statistics on 9/20/2023



Land Cover



Abbr.	Cover Class	Description	Points	% Cover ± SE	Area (ac) ± SE
NT	Non-Tree	All other surfaces	4	4.00 ± 2.00	2.81 ± 1.40
T	Tree	Tree, non-shrub	96	96.00 ± 1.96	67.42 ± 1.38
Total			**100**	**100.00**	**70.23**

Tree Benefit Estimates: Carbon (English units)

Description	Carbon (T)	±SE	CO_2 Equiv. (T)	±SE	Value (USD)	±SE
Sequestered annually in trees	85.11	±1.74	312.07	±6.37	$14,515	±296
Stored in trees (Note: this benefit is not an annual rate)	2,311.13	±47.18	8,474.15	±172.98	$394,165	±8,046

Currency is in USD and rounded. Standard errors of removal and benefit amounts are based on standard errors of sampled and classified points. Amount sequestered is based on 1.262 T of Carbon, or 4.629 T of CO_2, per ac/yr and rounded. Amount stored is based on 34.281 T of Carbon, or 125.697 T of CO_2, per ac and rounded. Value (USD) is based on $170.55/T of Carbon, or $46.51/T of CO_2 and rounded. (English units: T = tons (2,000 pounds), ac = acres)

Tree Benefit Estimates: Air Pollution (English units)

Abbr.	Description	Amount (lb)	±SE	Value (USD)	±SE
CO	Carbon Monoxide removed annually	60.36	±1.23	$13	±0
NO2	Nitrogen Dioxide removed annually	927.57	±18.93	$52	±1
O3	Ozone removed annually	2,577.46	±52.61	$591	±12
SO2	Sulfur Dioxide removed annually	103.71	±2.12	$2	±0
PM2.5	Particulate Matter less than 2.5 microns removed annually	121.85	±2.49	$1,195	±24
PM10*	Particulate Matter greater than 2.5 microns and less than 10 microns removed annually	718.29	±14.66	$1,038	±21
Total		**4,509.24**	**±92.04**	**$2,892**	**±59**

Currency is in USD and rounded. Standard errors of removal and benefit amounts are based on standard errors of sampled and classified points. Air Pollution Estimates are based on these values in lb/ac/yr @ $/lb/yr and rounded:
CO 0.895 @ $0.21 | NO2 13.759 @ $0.06 | O3 38.232 @ $0.23 | SO2 1.538 @ $0.02 | PM2.5 1.807 @ $9.81 | PM10* 10.654 @ $1.45 (English units: lb = pounds, ac = acres)

Tree Benefit Estimates: Hydrological (English units)

Abbr.	Benefit	Amount (Kgal)	±SE	Value (USD)	±SE
AVRO	Avoided Runoff	284.73	±5.81	$2,544	±52
E	Evaporation	3,659.18	±74.69	N/A	N/A
I	Interception	3,659.18	±74.69	N/A	N/A
T	Transpiration	8,069.97	±164.73	N/A	N/A
PE	Potential Evaporation	36,770.55	±750.58	N/A	N/A
PET	Potential Evapotranspiration	24,938.46	±509.05	N/A	N/A

Currency is in USD and rounded. Standard errors of removal and benefit amounts are based on standard errors of sampled and classified points. Hydrological Estimates are based on these values in Kgal/ac/yr @ $/Kgal/yr and rounded:
AVRO 4.223 @ $8.94 | E 54.277 @ N/A | I 54.277 @ N/A | T 119.702 @ N/A | PE 545.419 @ N/A | PET 369.913 @ N/A (English units: Kgal = thousands of gallons, ac = acres)

About i-Tree Canopy

The concept and prototype of this program were developed by David J. Nowak, Jeffery T. Walton, and Eric J. Greenfield (USDA Forest Service). The current version of this program was developed and adapted to i-Tree by David Ellingsworth, Mike Binkley, and Scott Maco (The Davey Tree Expert Company)

Limitations of i-Tree Canopy

The accuracy of the analysis depends upon the ability of the user to correctly classify each point into its correct class. As the number of points increase, the precision of the estimate will increase as the standard error of the estimate will decrease. If too few points are classified, the standard error will be too high to have any real certainty of the estimate.

Additional support provided by:

Cobenefit Calculator

Using the information you provide on tree canopy cover, the tool provides estimates of co-benefits in Resource Units and $ per year.

Table 2. Co-Benefits per year with current tree canopy cover.

Ecosystem Services	Resource Units Totals	Total $
Rain Interception (m3/yr)	22,334.3	$159,909.75
Air Quality (t/yr)		
O3	0.4367	$661.53
NOx	0.0769	$116.55
PM10	0.2598	$334.65
Net VOCs	-0.1651	-$280.88
Air Quality Total	0.6082	$831.85
Energy (kWh/yr & kBtu/yr)		
Cooling - Elec.	145,517	$11,044.71
Heating - Nat. Gas	2,633,382	$25,635.39
Energy Total ($/yr)		$36,680.10
Grand Total ($/yr)		$197,421.71

Light yellow background denotes an input cell ->

Directions
1) Use i-Tree Canopy, or another tool, to estimate the amount of deciduous and coniferous tree cover area (acres) (Cell C20 and D20).
2) Use i-Tree Canopy, or another tool, to estimate the amount of non-tree cover area (acres) (Cell F20) in the project area.
3) In Cell G20 the total area of the project is calculated (acres). Prompt i-Tree Canopy to provide an estimate of the project area by clicking on the gear icon next to the upper right portion of the image and selecting "Report By Area."
4) Total Project Area, cell G17 should equal 100%.

Table 1. Tree Cover

	Deciduous Tree Cover	Coniferous Tree Cover	Total Tree Cover	Non-Tree Cover	Total Project Area
Percent (%)	84%	12%	96%	4%	100%
Area (sq miles)	0.093	0.013	0.105	0.004	0.11
Area (m2)	240,337	32,775	273,112	11,380	284,492
Area (acres)	59.389	8.10	67.49	2.81	70.30

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

By protecting the trees on the Camp Lakota parcel, biodiversity will be enhanced and stormwater runoff will be mitigated. The site is, and will continue to be used for various recreational purposes, including restoration workdays and hunting. Additionally, the site sits in proximity to US Rte 14 and the trees will act as a screen for pollutants.

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

The Camp Lakota site is a mix of wetland and woodlands. By protecting the surrounding trees, the ecosystem services of the wetlands are enhanced, which impact water quality and cleanliness.

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

[Enter text describing activities you checked above]

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

Volunteers will be essential to the management of this site and have already begun lending a hand on restoration workdays. These workdays are offered at no cost to participants and increase community member knowledge of our native landscapes.

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

By protecting the trees on the Camp Lakota parcel, biodiversity will be enhanced and stormwater runoff will be mitigated. The site is, and will continue to be used for various recreational purposes, including restoration workdays and hunting. Additionally, the site sits in proximity to US Rte 14 and the trees will act as a screen for pollutants. Volunteers will be essential to the management of this site and have already begun lending a hand on restoration workdays. These workdays are offered at no cost to participants and increase community member knowledge of our native landscapes.

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

By protecting trees within the Chicagoland region, we are reducing temperatures across the wider region.

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

By protecting the trees on the Camp Lakota parcel, biodiversity will be enhanced and stormwater runoff will be mitigated. Additionally, the site sits in proximity to US Rte 14 and the trees will act as a screen for pollutants. Volunteers will be essential to the management of this site and have already begun lending a hand on restoration workdays. These workdays are offered at no cost to participants and increase community member knowledge of our native landscapes.

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

The Camp Lakota site is a mix of wetland and woodlands. By protecting the surrounding trees, the ecosystem services of the wetlands are enhanced, which impact water quality and cleanliness. The vernal pools that form on the site are critical breeding habitat for amphibians, which are also an important food source for migratory birds.

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

The Camp Lakota site is an old growth woodland site that is critical for the sustained health of life on land and will contribute to healthy infiltration rates in an area where groundwater is essential to survival. Protection of the trees will allow them to continue to reduce stormwater runoff, improving the habitat through restoration will enhance the already existing wildlife habitat to improve local biodiversity.

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

The community will continue to come together to sustainably steward and develop the site. The site was originally purchased through partnership with the Illinois Audubon Society, lllinois Clean Energy Community Foundation, McHenry County Conservation Foundation, and McHenry County Conservation District. Public workdays, one which was supported by the McHenry County Audubon Society, have taken place and will continue to be an important part of the project.

Summary of Project Social Impacts

By protecting the trees on the Camp Lakota parcel, biodiversity will be enhanced and stormwater runoff will be mitigated. Additionally, the site sits in proximity to US Rte 14 and the trees will act as a screen for pollutants. Volunteers will be essential to the management of this site and have already begun lending a hand on restoration workdays. These workdays are offered at no cost to participants and increase community member knowledge of our native landscapes.

The Camp Lakota site is a mix of wetland and woodlands. By protecting the surrounding trees, the ecosystem services of the wetlands are enhanced, which impact water quality and cleanliness.

The Camp Lakota site is an old growth woodland site that is critical for the sustained health of life on land and will contribute to healthy infiltration rates in an area where groundwater is essential to survival. Protection of the trees will allow them to continue to reduce stormwater runoff, improving the habitat through restoration will enhance the already existing wildlife habitat to improve local biodiversity.