

VILLAGE OF MCFARLAND **Sustainability & Natural Resources** *NOTICE OF PUBLIC MEETING*
Committee

Monday, June 12, 2023

6:00 PM

McFarland Municipal Center
Community Room

AGENDA

You are invited to this meeting through a Zoom webinar. The public may attend in-person or remotely through the webinar or telephone options listed below.

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Press *9 to raise/lower hand. Press *6 to mute/unmute.

1. CALL TO ORDER, ROLL CALL.

2. PUBLIC APPEARANCES.

- a. This is an opportunity for members of the public to address the Sustainability and Natural Resources Committee for items that are not on the agenda. Please remember this is a hybrid meeting conducted in person and through the Zoom online meeting platform. Meeting attendees wishing to address the Committee about items not on the agenda may do so at this time. Zoom attendees should type their name and address in the Question and Answer feature within the Zoom online meeting platform at this time. Members of the public who are present in person and wish to address the Committee should fill out a public comment form and turn into the meeting chairperson. When you are called upon to speak, state your name, address, and provide your comments to the Committee for their consideration. Please adhere to the 3-minute time limit. Additionally, you may send your public comments to sustainability@mcfarland.wi.us to be included as part of the meeting.

Members of the public may also speak during their selected agenda item as they designate on the public comment form or in the Question and Answer feature on Zoom.

3. APPROVAL OF MINUTES.

- a. Motion to approve the minutes of the Parks & Recreation Committee meeting held on May 8, 2023.

4. BUSINESS.

- a. Presentation and action to make a recommendation to the Village Board regarding the acceptance of the final conservancy management plan
- b. Update regarding the 2023 McDaniel Park Beach Improvements Project.
- c. Discussion on No Mow May 2023

5. SCHEDULE NEXT MEETING DATE.

- a. Monday, July 10, 2023 at 6:00 p.m.

6. ADJOURNMENT.

Any person who has a qualifying disability as defined by the Americans with Disabilities Act that requires the meeting or materials at the meeting to be in an accessible location or format should contact the McFarland Municipal Center at (608)838-3153, 5915 Milwaukee Street, McFarland, Wisconsin, or village.clerk@mcfarland.wi.us by 2:00 p.m. at least 5 business days prior to the meeting so that any necessary arrangements can be made to accommodate each request. If the meeting or request is less than 5 business days from the meeting, requests for accommodations may still be made and reasonable efforts will be made to accommodate each request.

Sustainability and Natural Resources Committee 05/08/2023

Members Present: Mike Flaherty, Carolyn Clow, Bruce Fischer, Nina Schultz, Judy Taber

Members Absent: Kitty Brussock, Angela Freedman

Staff Present: Sayer Larson, Kong Thao, Phil McDade, Lee Igl, Andrew Bremer

1. CALL TO ORDER

Flaherty called the meeting to order at 6:02 PM.

2. PUBLIC APPEARANCES.

No public appearances.

3. APPROVAL OF MINUTES.

- a. Motion by Clow, second by Taber, to approve the minutes of the April 19, 2023, Sustainability & Natural Resource Committee meeting. Motion carried 5-0.

4. BUSINESS.

- a. Discussion and possible action to make a recommendation to the Village Board regarding approval of a Vacant Land Lease Agreement with the McFarland School District for the purpose of subleasing parcel 154/0710-354-8341-1, near 3451 Siggelkow Road, to Wisconsin Power & Light Company for a solar photovoltaic generating facility.

Bremer and representatives of Wisconsin Power & Light Company discussed with the committee a land lease agreement for a solar installation on eight acres of land recently purchased by the village, aimed at offsetting village municipal energy consumption through renewable resources.

Motion by Flaherty, seconded by Fischer, to recommend to the Village Board approval of a Vacant Land Lease Agreement with the McFarland School District for the purpose of subleasing parcel 154/0710-354-8341-1, near 3451 Siggelkow Road, to Wisconsin Power & Light Company for a solar photovoltaic generating facility subject to any final lease adjustments recommended by the Village Attorney. Motion approved 5-0.

- b. Discussion and possible action to make a recommendation to the Village Board regarding a proposal from HGA for design, bid and construction administration services for installation of a battery and microgrid at the Public Safety Center.

Bremer discussed with the committee plans to construct a microgrid and battery storage system at the Public Safety Center. Representatives of HGA, a Madison environmental and sustainability company, were on hand to review plans for the microgrid and storage system.

Motion by Clow, seconded by Flaherty, to recommend to the Village Board approval of a proposal from HGA for design, bid and construction administration services for installation of a battery and microgrid at the Public Safety Center. Motion approved 5-0.

- c. Update regarding the Burma water tower repainting project.

Larson provided an update to the committee on plans to sandblast and roll paint the Burma Road water tower, with measures to be taken to protect potentially vulnerable features of Indian Mound Park, where the tower is located.

- d. Update regarding McDaniel Park beach improvement project

Larson provided an update to the committee regarding the beach improvement project, including concerns raised by the state Department of Natural Resources regarding fish habitat that could be endangered should rocks in the wading area in the lake next to the beach be removed or displaced as planned under the project.

- e. Discussion regarding 2023-24 sustainability and naturel resources initiatives.

Larson discussed potential efforts the village could undertake in the coming year to enhance sustainability efforts in the village and enhance natural resources.

5. SCHEDULE NEXT MEETING DATE.

- a. Monday, June 12, 2023, at 6:00 PM

6. ADJOURNMENT.

Fischer motioned to adjourn; seconded by Clow. Motion carried 5-0. Meeting adjourned at 7:25 PM.

McFarland
SUMMARY SHEET

MEETING DATE: Monday, June 12, 2023

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Sayer Larson, Parks Superintendent

AGENDA ITEM: Presentation and action to make a recommendation to the Village Board regarding the acceptance of the final conservancy management plan

PREVIOUS ACTION:

The former Parks Recreation & Natural Resources Committee recommended approval to the Village Board for issuance of an RFP for a Management Plan for Conservancy Areas at their January 27, 2022 meeting.

The Village Board approved the issuance of an RFP at their February 14, 2022 meeting.

The Sustainability & Natural Resources Committee recommended the award of a contract to RES Great Lakes, LLC at their May 9, 2022 meeting.

The Village Board made the award of contract at their May 24, 2022 meeting.

The draft management plan was presented to Sustainability and Natural Resources Committee at their February 13, 2023 meeting.

ISSUE SUMMARY:

RES Great Lakes, LLC was selected to conduct management planning services related to conservancy areas within the Village in 2022. The project scope included items such as:

- Conduct an analysis of the project areas to identify key issues, opportunities, and possible improvements.
- Provide site inventories along with reviewing various property records and reports.
- Create management units within each property with a stepped management approach
- Providing cost/labor estimates for each site.
- Conduct public input activities and compile that information.
- Compile a final report and present it to various committee(s) and the Village Board.

Matt Parsons, ecologist with RES Great Lakes, will present an overview of spring plant surveys findings and discuss the impact on the management plan. The final management plan is attached, along with appendices.



Progress tracking:

Task Description	Target Date/Completion
Kick-off Meeting	Completed
Data Gathering	Completed
Summer 2022 Field Survey	Completed
Progress Meeting	Completed
Guided Field Tours	Completed
Progress Meeting	Completed
Draft CMP Submittal – Staff Review	Completed
Draft CMP Presentation	Completed
Stakeholder Engagement Meetings	Completed
Spring 2023 Field Survey	Completed
Final CMP Submittal – Staff Review	Completed
Final CMP - Approval SNR	June SNR Committee
Village Board Approval	June 27, 2023.

Notable changes to the final plan include:

- Language pertaining to burial mounds (eg. Indian mounds to Native American mounds). Not all terms were able to change as they're either the name of a property or the name of a document.
- Timelines in text and charts have been converted from dates to successive yearly steps. This will provide flexibility in prioritizing management units. There are many factors that occur annually that can have an impact on direction, such as: resident input, budget, environmental factors, safety hazards, etc.
- Recommended water level manipulation was removed at Grand View Conservancy and Urso Park. These were recommendations proposed to restore historic hydrology at the properties. Adjacent homeowners raised concerns during the PIM for Grand View Conservancy due to raised water tables already present. This is an example of adaptive restoration to establish a native plant community not historically at the given location.

The Village conducted stake holder meetings on March 2 and 9, 2023. Letters to adjacent property owners were mailed two weeks prior to the correlating property meeting. Additional public notification was placed on Village social media platforms. Conservancy properties were divided between the two meetings. These meetings provided opportunities for residents to learn, ask questions and give feedback about the draft management plan. The draft plan was made available prior to the stake holder meetings. The meeting provided an educational overview of ecological restoration. This was followed by looking at the highlights of restoration activities at each property with discussions.

FINANCIAL/BUDGET IMPACT:

The approved budget for this item was \$75,000 and funded through the Parks Budget in the Capital Projects Fund. The cost of the contracted services provided by RES Great Lakes, LLC



was \$48,180.

VILLAGE PLAN REFERENCE:

ORDINANCE REFERENCE:

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

Recommended action:

Motion, second, to recommend to the Village Board acceptance of the conservancy management plan as presented.

ATTACHMENTS:

1. McFarland_CMP_Final_20230607
2. Appendix_A_Figures
3. Appendix_D1_Cover_Data_Summer2022
4. Appendix_D2_Cover_Data_Spring2023
5. Appendix_E1_Summer_2022_FQA_Data
6. Appendix_E2_Spring_2023_FQA_Data



Village of McFarland

Final Conservancy Management Plan

PRJ106368 | June 7, 2023



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Acronyms and Abbreviations

CMP	Conservancy Management Plan
CE	Common Era
DCiMap	Dane County Interactive Map
DBH	Diameter at Breast Height
ESA	Endangered Species Act
FEMA	Federal Emergency Management Agency
FQA	Floristic Quality Assessment
GPS	Global Positioning System
HUC	Hydrologic Unit Code
IPM	Integrated Pest Management
MU	Management Unit
NOI	Notice of Intent
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
OPC	Opinion of Probable Costs
PLS	Pure Live Seed
PP	Photo-documentation Point
RES	Resource Environmental Solutions, LLC
USACE	U.S. Army Corps of Engineers
USDA	United States Department of Agriculture
Village	Village of McFarland
WDNR	Wisconsin Department of Natural Resources
wFQI	Weighted Floristic Quality Index
WHAIFinder	Wisconsin Historic Aerial Imagery Finder
wMean C	Weighted Mean Coefficient of Conservatism
WNHI	Wisconsin Natural Heritage Inventory
WWI	Wisconsin Wetland Inventory



Executive Summary

Introduction

The Village of McFarland (Village), located southeast of the City of Madison in southeast Dane County, Wisconsin, owns and manages several parks and conservancies located throughout the municipality. These conservancies contain important cultural and natural resources and require ongoing ecological restoration and vegetation maintenance to maintain or improve their ecological health. Babcock Conservancy, Grand View Conservancy, Indian Mound Conservancy (including the School Forest parcel), Marsh Woods Conservancy, Siggelkow Road Park, Taylor Road Conservancy, Thrun Marsh Conservancy, Urso Park, Woodland Commons Conservancy, and Yahara River Conservancy are the subject of this Conservancy Management Plan (CMP). The CMP characterizes the historical and existing conditions of each conservancy, provides restoration and management prescriptions to improve their ecological condition with associated cost and labor estimates, and recommends performance metrics to track management effectiveness.

Baseline Assessment

Resource Environmental Solutions, LLC (RES) conducted vegetation meander surveys in summer 2022 and spring 2023 throughout delineated Management Units (MUs) of each conservancy. RES determined plant species abundance and plant community quality for each MU. The total number of plant species identified ranged from 40 at Yahara River Conservancy to 164 at Indian Mound/Thrun Marsh Conservancies in summer 2022. The total number of plant species ranged from 24 species at Yahara River Conservancy to 96 species at Grand View Conservancy in spring 2023.

Native absolute percent cover, which can exceed 100% when the canopy of different vegetation canopy layers overlap, was highest in the dry-mesic forest of Indian Mound Conservancy (215%) and was lowest in the emergent marsh portions of Grandview Conservancy (32%) in summer 2022. Native absolute percent cover was highest in the mesic forest of Babcock Conservancy (227%) and was lowest in the emergent marsh portions of Grandview Conservancy (5%) in spring 2023. Non-native, invasive absolute cover was highest in the wetland portions of Babcock Conservancy and emergent marsh portions of Grand View Conservancy (77%) and lowest in the mesic forest portion of Babcock Conservancy (0%) in summer 2022. Invasive cover was highest in the wet meadow portion of Grand View Conservancy (59%) and lowest in the mesic forest portion of Babcock Conservancy (0%) in spring 2023.

In summer 2022, *wMean C* (a measure of floristic quality) was lowest in the mesic forest in the southern portion of Grand View Conservancy (0.6) and highest in the mesic forest portion of Babcock Conservancy (4.6). In spring 2023, *wMean C* was lowest in the mesic forest in the southern portion of Grand View Conservancy (0.3) and highest in the mesic forest of Babcock Conservancy (5.4).

RES located and mapped one sensitive plant species during the summer of 2022: obovate beak grain (*Diarrhena obovata*, State Endangered). Invasive species such as common buckthorn (*Rhamnus cathartica*), Tartarian honeysuckle (*Lonicera tatarica*), white mulberry (*Morus alba*), Canada thistle (*Cirsium arvense*), narrow-leaved cattail (*Typha angustifolia*), and reed canary grass (*Phalaris arundinacea*) are prevalent at Village conservancies.



Management Recommendations

The following is a summary of management recommendations discussed in more detail in the body of the CMP:

- Control large populations of woody and herbaceous invasive species via a combination of mechanical and chemical means. This includes forestry mowing large and dense populations of woody invasive shrubs, brushcutting smaller and scattered populations of woody invasive shrubs, broadcast spraying large populations of herbaceous invasive species and spot-spraying smaller populations, and introducing a prescribed fire regime for short- and long-term vegetation management.
- Utilize trees that have been cut down or girdled as habitat enhancement features.
- Restore, enhance, expand, and connect a variety of habitats/cover types including oak woodland, southern dry-mesic forest, southern mesic forest, southern hardwood swamp, floodplain forest, shrub-carr, emergent marsh, southern sedge meadow, wet prairie, wet-mesic prairie, and dry-mesic prairie through native seed and plant installation.
- Consider stream restoration and wetland scrapes at appropriate locations.
- Repair the severe erosion at Indian Mound/Thrun Marsh Conservancies.
- Resolve encroachment issues and encourage sustainable stormwater solutions and native landscaping practices on neighboring lands.



Introduction

Project Background and Location

The Village of McFarland (Village) is located southeast of the City of Madison in southeast Dane County, Wisconsin (Appendix A; Figure 1). The Village owns and manages several parks and conservancies located throughout the municipality. Ten of the conservancies/parks are the subject of this Conservancy Management Plan (CMP): Babcock Conservancy, Grand View Conservancy, Indian Mound Conservancy (including the School Forest parcel), Marsh Woods Conservancy, Siggelkow Road Park, Taylor Road Conservancy, Thrun Marsh Conservancy, Urso Park, Woodland Commons Conservancy, and Yahara River Conservancy. Several of these natural areas, including Indian Mound Conservancy, Siggelkow Park, Taylor Road Conservancy, and Woodland Commons Conservancy, contain prehistoric Native American mounds and are of critical historical and cultural importance. The Village is situated adjacent to a portion of the Yahara Chain of Lakes so several of the conservancies contain significant tracts of wetlands and other sensitive habitats. Therefore, continued restoration and maintenance of its natural assets is a vital component of realizing the Village's vision and mission.

The CMP characterizes the historical and existing conditions of each conservancy, provides restoration and management prescriptions to improve their ecological condition with associated cost and labor estimates, and recommends performance metrics to track management effectiveness.

Project Objectives

The following are the CMP objectives:

1. Protect and enhance current resources.
2. Provide historical context.
3. Characterize existing resources and evaluate their condition.
4. Address the long-term vision of the conservancies.
5. Identify environmental constraints, including those that originate from adjacent lands.
6. Collaborate with stakeholders, such as the Village and local residents, by garnering and incorporating their input.
7. Create a stepped management approach with timeline and opinion of probable costs and labor hours.
8. Develop measurable performance goals.



Study Methods

Resource Environmental Solutions, LLC (RES) conducted a baseline assessment of the conservancies to establish baseline ecological conditions in the context of historical land-use and to formulate a conceptual restoration plan that aims to improve these conditions. RES' methodological approach included existing data review, vegetation surveys, and vegetation mapping.

Existing Data Review

Existing data and reports reviewed prior to field work included the following:

- Glacial Geology of Dane County, Wisconsin (Mickelson & McCartney 1979)
- Urso Community Park Master Plan (Ken Saiki Design 2005)
- Management Plan for Conservancy Parks (JFNew 2007)
- Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010)
- Ecological Assessment and Management Plan – Marsh Woods Park (Taylor Conservation, LLC 2010a)
- Indian Mounds Vegetation Assessment (Taylor Conservation, LLC 2010b)
- Indian Mounds Conservation Park McFarland, WI - Trail Project Design Layout and Construction Recommendations (Yocum 2012)
- The Ecological Landscapes of Wisconsin (WDNR 2015a)
- Outdoor Recreation and Open Space Plan 2019-2023 (Village of McFarland 2019)
- Vegetation Management Use Policy (Village of McFarland 2020)
- U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Survey of Dane County
- Wisconsin Natural Heritage Inventory (WNHI) Natural Communities of Wisconsin
- Wisconsin Wetland Inventory (WWI)
- Dane County 1-foot topographic maps
- Wisconsin Historic Aerial Imagery Finder (WHAIFinder) 1937 Historical Aerial Imagery
- Dane County Interactive ArcGIS Web Application (DCiMap) Historical Aerial Imagery.

RES used existing information to gain a precursory understanding of the various conservancies, create preliminary vegetation and management unit maps, and to identify data gaps where additional information is needed to inform this CMP.

Vegetation Surveys

RES Ecologists performed a thorough baseline assessment of all native and non-native vegetative cover types at each conservancy to determine relative population levels and prescribe recommended control/treatments where appropriate. Surveys were conducted in summer 2022 (July 12, 19, and 20, 2022) and spring 2023 (April 25, 2023). As part of the baseline assessment, RES collected tree, sapling/shrub, herbaceous, and vine strata composition and percentages using weighted FQA methodology (Bernthal 2003). The tree layer was defined as the uppermost vegetative layer formed by mature tree crowns. Trees were defined as woody plants 3 inches or more in diameter at breast height (DBH). The shrub layer consisted of woody plants less than 3 inches in DBH. The herbaceous layer was defined as all non-woody plants and woody plants under 3.28 feet in height.



Each conservancy was divided into, and stratified by, preliminary management units (MU) which are areas of similar vegetation composition and structure. Preliminary MUs were delineated using air photo interpretation. The number and precise arrangement of MUs was refined based on field observations during the field assessments. RES performed meander species search surveys throughout the entirety of each MU and prepared comprehensive plant lists for each stratum (i.e., canopy, shrub, herbaceous, and vine) within each MU. Once the survey within a unit was complete, surveyors estimated the approximate absolute percent cover of each species in each stratum as well as the total absolute cover of each stratum.

These surveys documented species presence and abundance (i.e., absolute percent cover) and allowed for calculation of native, non-native, and invasive relative percent cover (i.e., proportion of total vegetative cover) for each MU. RES also determined plant community quality for each MU using Floristic Quality Assessment (FQA) which includes calculation of weighted Mean Coefficient of Conservatism (wMean C) and weighted Floristic Quality Index (wFQI). FQA data were derived using the Wisconsin Department of Natural Resources' (WDNR) FQA Calculator.

Vegetation Mapping

During vegetation surveys, RES delineated and characterized dominant plant communities in accordance with land use history and the WNHI system. RES mapped significant populations of invasive species, especially those characterized as "Restricted" in Wisconsin Administrative Code NR 40, as well as reed canary grass (*Phalaris arundinacea*). RES also mapped rare species encountered. Where practical, plant community boundaries, invasive species populations, and rare plants were surveyed using Global Positioning System (GPS) receivers capable of sub-meter accuracy. However, large and/or discontinuous populations of invasive species were mapped by hand using air photo interpretation techniques and verified using GPS.

Photo-documentation

RES established 54 permanent photo-documentation (PP) locations at representative locations throughout each conservancy. Photographs taken at these locations during this baseline assessment document pre-restoration baseline conditions and can be compared to repeat photographs taken from the same locations and orientations post-restoration. Photographs were also taken at other features of note including rare plants and notable invasive species. Photographs are presented in Appendix B.



Historical Conditions

Geology and Historical Ecology

McFarland is in the Dane-Jefferson Drumlins and Lakes Land Type Association which consists of an undulating complex of glacial till plains with drumlins, outwash plains, lake plains, and muck deposits (WDNR 2015a). Soils are predominantly well drained silt and loam over calcareous sandy loam till, loamy lacustrine, or gravelly sandy outwash. Conservancies located near Lake Waubesa and Mud Lake; such as Babcock Conservancy, Yahara River Conservancy, Marsh Woods Conservancy, Grand View Conservancy, Thrun Marsh Conservancy, and portions of Urso Park; occur on lacustrine plain geologic landforms (Mickelson & McCartney 1979). Whereas the inland conservancies such as Woodland Commons Conservancy, Taylor Road Conservancy, Siggelkow Road Park, Indian Mound Conservancy, and portions of Urso Park and Marsh Woods Conservancy; are located on drumlin and ground moraine geologic landforms.

The dominant historic vegetation communities in northern McFarland consisted of emergent marshes and sedge meadows in the lowlands and mesic forests dominated by sugar maple (*Acer saccharum*) and American basswood (*Tilia americana*) in the uplands (WDNR 2015a). Southern McFarland also contained emergent marshes and sedge meadows in the lowlands, but the dominant upland vegetation type shifted to oak woodland/oak forest dominated by bur oak (*Quercus macrocarpa*) and white oak (*Q. alba*). It does not appear that upland prairie was a dominant ecosystem type in the area immediately east of Lake Waubesa historically; however, oak opening/oak savanna did exist east of modern-day McFarland. There is also evidence that drumlins within the limits of the Village were historically composed of open-grown oak trees, indicating historic oak savannas and oak woodlands were likely common.

Historical Land Use

Conservancies such as Woodland Commons Conservancy, the western portion of Siggelkow Park, and Indian Mound Conservancy appear to have undergone little significant land alteration since the early 1930's relative to other conservancies (Figures 2a-c), with the exception of construction of the water tower at Indian Mound Conservancy. However, these areas are now surrounded by suburban development and the vegetative communities have shifted over time to closed canopy forest types with dense shrub invasion in the understories.

Taylor Road Conservancy is a drumlin currently composed of a red pine (*Pinus resinosa*) plantation, tree- and shrub-invaded surrogate grasslands, and a cut bank on the north end of the site. The west side of the conservancy was planted to red pine between 1968 and 1976. This area remained cleared as late as 1968 when construction of an apartment complex to the north had begun. The east slope was composed of sparse tree cover and possibly pastureland or savanna/prairie historically.

The southern portion of Grand View Conservancy historically consisted of a homestead, cropland or pastureland drained by a north-south oriented ditch, and potentially orchards. The northern portion of this conservancy was undeveloped historically likely due to the poorly drained soils in this area. With development of the surrounding neighborhoods came encroachment issues at this conservancy.

Review of DCiMap historical aerial imagery indicates the southern portion of Urso Park, which occurs on the slopes of ground moraine landforms, was historically composed of oak woodland and oak savanna. The western and northern sections were composed of agricultural fields and/or pasture. The fields in the north were drained by an east to west flowing agricultural ditch since at least 1937. The ditch is still present and functioning to drain the wetlands that have formed in this area since agricultural production ceased. A



farmstead was present in the northeast portion of the park that is currently a parking lot. Historical aerial imagery interpretation indicates orchards were planted in the western portion of the site between 1937 and 1955. The northern agricultural fields were taken out of production sometime between 1987 and 1995 and the structures associated with the farmstead in the northeast portion of the site were removed sometime between 2000 and 2005. The McFarland Dog Park was constructed in 2009 occupying the eastern boundary of Urso Park. The southern portion of the dog park was recently expanded. Additionally, a disc golf course was constructed throughout the woodlands in the southwestern portion of Urso Park in 2022.

Babcock, Yahara River, Thrun Marsh, and Marsh Woods Conservancies are comprised largely of existing wetlands which have been left mostly intact. The northeast portion of Marsh Woods Conservancy was historically in pasture and the southeastern oak woodland may have been grazed or logged in the past.

Cultural History

The Village of McFarland and surrounding areas have a rich cultural history. Several documents exist containing information on Native American mounds on the Village's properties (Village of McFarland 2010, Taylor Conservation, LLC 2010b, Yocum 2012). In brief, Indian Mound Conservancy, Siggelkow Road Park, Taylor Road Conservancy, and Woodland Commons Conservancy, contain prehistoric Native American mounds (Village of McFarland 2010). A total of fourteen mounds are documented within the Village limits. The mounds were built by the people of the Effigy Mound Culture, Late Woodland Stage, from approximately 650-1200 Common Era (CE). Many mounds are burial grounds while other serve as man-made landmarks and are considered sacred sites by Native Americans. Agricultural and urban development has resulted in widespread destruction and loss of many of the mounds. The Village recognizes the historical and cultural value of the remaining mounds and has adopted policies to ensure their protection and preservation.

Per McFarland's Native American Mound Policy, Indian Mound Conservancy is listed on the National Register of Historic Places (NRHP) which means no ground disturbing activities are allowed anywhere within the conservancy. An NRHP database query also indicates that Siggelkow Road Park or portions thereof is listed as well. Any activities that might potentially cause ground disturbance on or near mounds in other conservancies requires prior approval from the Wisconsin Historical Society.

The Native American Mound Policy provides direction on vegetation management of the mounds, including removing all brush and non-native, invasive species growing on the mounds. Removing in phases, all trees except large, healthy, deep-rooted trees and establishing native ground cover on the mounds to protect against erosion. Maps and vegetation maintenance guidelines for all fourteen mounds within the four conservancies were established in the Indian Mounds Vegetation Assessment (Taylor Conservation, LLC 2010b). Guidelines include reducing forest canopy cover surrounding the mounds and restoring dense native soil stabilizing groundcover on the mounds and in the area surrounding the mounds.



Existing Conditions

Today, the Village's conservancies are highly fragmented compared to their historic condition due to agricultural and urban development. This has reduced habitat patch size and migration corridors for wildlife, increased invasive species colonization, degraded water quality, and altered nutrient cycles and hydrologic regimes. With these challenges also come opportunities, starting with the Village's and other organizations' commitment to acquiring and maintaining open spaces and natural areas. Additionally, the close proximity of residential neighborhoods to these natural areas provides residents the unique opportunity to have a direct impact on the Village's natural resources based on how they manage their own properties.

Babcock Conservancy

The approximately 7.82-acre Babcock Conservancy is located on the eastern shore of Lake Waubesa near the outlet to the Yahara River. It is surrounded on three sides by water, with Lake Waubesa to the west, Yahara River to the south, and a canal to the east. The conservancy's topography is relatively flat as it is situated mostly on a lacustrine plain landform (Figure 3a). The mesic forest portion of the conservancy to the northwest has some relief as it is located at the base of a drumlin. Elevations range from 845 feet along the water's edge in the southern and eastern portions of the site to 877 feet on a hillslope in the northwestern portion of the site.

Babcock Conservancy is comprised of three soil map units: Adrian muck, 0-2% slopes (Ad); Kidder loam, 12-20% slopes, eroded (KdD2); and Water (W) (Table 1) (Figure 4a).

Table 1. Babcock Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
Ad – Adrian muck, 0-2% slopes	82%	Very poorly drained	100% Hydric	Depressions	Marsh, sedge meadow, shrub-carr
Kd – Kidder loam, 12-20% slopes, eroded	17%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest
W – Water	1%	N/A	N/A	N/A	N/A

The Adrian soil series consists of very deep, very poorly drained soils formed in herbaceous organic materials over sandy deposits on outwash plains, lake plains, lake terraces, floodplains, moraines, and till plains. These soils formed under marsh, sedge meadows, or shrub-carr vegetation and are classified as hydric (soils that form under wet conditions).

The Kidder soil series consists of very deep, well drained soils formed in thin loess and in loamy till or just in loamy till on moraines and drumlins. These soils typically form under oak/hickory forest; however, historic vegetation mapping and the current vegetation community indicates historic vegetation in the area mapped as Kidder in the northwest portion of Babcock Conservancy was likely formed under southern mesic forest, and was dominated by tree species such as sugar maple and American basswood. Historic vegetation in the area mapped as Kidder in the southwest portion of the conservancy was likely floodplain forest/hardwood swamp and dominated by species such as eastern cottonwood (*Populus deltoides*) and silver maple (*Acer saccharinum*). Kidder loams are classified as non-hydric.

The conservancy is situated in the Lake Monona-Yahara River Hydrologic Unit Code (HUC) 10 Watershed (0709000207) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is



influenced largely by surface water from Lake Waubesa and the Yahara River as well as runoff from the surrounding suburban developments.

Babcock Conservancy currently consists of approximately 4.50 acres of emergent marsh, 1.95 acres of southern hardwood swamp, 0.57 acres of southern mesic forest, 0.04 acres of lake, and 0.76 acres of hardscape (Figure 5a). RES did not conduct formal wetland delineations at this or any of the other conservancies; however, we estimate approximately 6.45 acres of wetlands are present onsite. Non-native invasive species such as narrow-leaved cattail (*Typha angustifolia*) and purple loosestrife (*Lythrum salicaria*) are prevalent at this conservancy. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

The emergent wetlands within Babcock Conservancy may be used by herptiles such as painted turtles (*Chrysemys picta*), snapping turtles (*Chelydra serpentina*), American toad (*Anaxyrus americanus*), American bullfrog (*Lithobates catesbeianus*), and spring peepers, (*Pseudacris crucifer*); birds such as marsh wren (*Cistothorus palustris*), great blue heron (*Ardea Herodias*), and swamp sparrow (*Melospiza georgiana*); and mammals such as muskrats (*Ondatra zibethicus*). Woodland species are likely urban species such as white-tailed deer (*Odocoileus virginianus*), raccoons (*Procyon lotor*), grey squirrel (*Sciurus carolinensis*), opossums (*Didelphis virginiana*), rock pigeons (*Columba livia*), American robins (*Turdus migratorius*), black-capped chickadees (*Poecile atricapillus*), and mourning doves (*Zenaida macroura*). Potential bat species that may use the forested areas include northern-long eared bat (*Myotis septentrionalis*), little brown bat (*Myotis lucifugus*), and tri-colored bat (*Perimyotis subflavus*).

Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Grand View Conservancy

The approximately 32.86-acre Grand View Conservancy is situated on a glacial lacustrine plain approximately 1,200 feet northeast of Mud Lake. The conservancy's topography is relatively flat with a slight valley landform, sloping upwards to the west and east from the center (Figure 3b). The mesic forest portions of the conservancy have some relief. Elevations range from 851 feet in the marsh bottom in the southern portion of the site to 864 feet on a hillslope in the northern portion of the site.

Grand View Conservancy is comprised of six soil map units: Dodge silt loam, 2-6% slopes (DnB); Elburn silt loam, gravelly substratum, 0-3% slopes (EgA); Hayfield silt loam, 0-3% slopes (HaA); Sable silty clay loam, 0-2% slopes (SaA); St. Charles silt loam, 2-6% slopes (ScB); and Virgil silt loam, gravelly substratum, 0-3% slopes (VwA) (Table 2) (Figure 4b).

**Table 2. Grand View Conservancy Soils and Historical Vegetation Data**

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
DnB – Dodge silt loam, 2-6% slopes	6%	Well drained	0% Hydric	Drumlins	Maple/basswood, oak/hickory forests
EgA – Elburn silt loam, gravelly substratum, 0-3% slopes	20%	Somewhat poorly drained	10% Hydric	Till Plains	Prairie
HaA – Hayfield silt loam, 0-3% slopes	12%	Somewhat poorly drained	5% Hydric	Outwash Plains	Tallgrass prairie, oak savanna
SaA – Sable silty clay loam, 0-2% slopes	45%	Poorly drained	85% Hydric	Swales	Sedge meadow, wet prairie
ScB – St. Charles silt loam, 2-6% slopes	4%	Well drained	3% Hydric	Till Plains	Forest
VwA – Virgil silt loam, gravelly substratum, 0-3% slopes	13%	Somewhat poorly drained	10% Hydric	Drainageways on outwash plains	Prairie, savanna

The Dodge soil series consists of very deep well-drained soils formed in loess and in the underlying till on ground moraines, end moraines, and drumlins. These soils formed under sugar maple/American basswood and oak/hickory hardwood forest associations and are classified as non-hydric.

The Elburn soil series consists very deep, somewhat poorly drained soils on outwash plains, stream terraces, and till plains. These soils formed in loess or other silty material and in the underlying loamy stratified outwash under prairie vegetation. Elburn soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The Hayfield soil series consists of very deep, somewhat poorly drained soils that formed in silty or loamy sediments and the underlying sandy and gravelly outwash. These soils occur on linear or concave slopes on outwash plains, valley trains, treads and risers on stream terraces, and glaciated uplands under tallgrass prairie and oak savanna vegetation. Hayfield soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The Sable soil series consists of very deep, poorly drained, moderately permeable soils formed in loess on nearly level broad summits of moraines and stream terraces. These soils formed under marsh, sedge meadow, and wet prairie vegetation and are classified as hydric.

The St. Charles soil series consists of very deep, well drained soils on outwash plains, till plains, or stream terraces. They formed in loess and in the underlying loamy outwash or sandy loam till under hardwood forest vegetation. St. Charles soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The Virgil soil series consists of very deep, somewhat poorly drained soils on outwash plains, stream terraces, or till plains. These soils formed in loess or other silty material and in the underlying loamy outwash or sandy loam till under prairie and oak savanna vegetation. Virgil soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The conservancy is situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is influenced largely by groundwater as well as runoff from the surrounding suburban developments. Prior to 1937, the southern portion of the



conservancy was ditched to make arable land with flow directed southerly to a large wetland complex associated with Mud Lake. At some point prior to 1955, a second ditch was constructed in the northern portion of the conservancy. This ditch drains the northern wetland area, flows under Creamery Road connecting to the original southern ditch, and receives flows from a stormwater basin north of the adjacent railroad tracks. Several other outfalls feed water to the northern wetland from the surrounding developments. A major concern in this area is flooding as encroaching development and increased impervious surfaces are likely resulting in increased volumes of water flowing into Grand View Conservancy and raising local water tables during storm events.

Grand View Conservancy currently consists of approximately 7.55 acres of emergent marsh, 3.21 acres of shrub-invaded mesic prairie, 2.45 acres of mesic prairie, 0.68 acres of pond, 4.76 acres of southern hardwood swamp, 7.20 acres of southern mesic forest, 3.86 acres of wet meadow, 1.89 acres of wet-mesic prairie, 0.25 acres of landscaped/developed land, and 1.01 acres of trails (Figure 5b). RES estimates approximately 18.74 acres of wetlands are present onsite. Non-native invasive species such as reed canary grass, narrow-leaved cattail, honeysuckles (*Lonicera* spp.), common buckthorn (*Rhamnus cathartica*), and garlic mustard (*Alliaria petiolata*) are prevalent. This conservancy also contains populations of several garden escapees that likely originate from nearby residential gardens. A patch of relatively high quality native wet prairie/wet-mesic prairie is present in the southern portion of the site and contains species such as Michigan lily (*Lilium michiganense*) and various sedges (*Carex* spp.). More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Grand View may host a variety of wildlife species including urban wildlife such as white-tailed deer, raccoons, grey squirrel, opossums, rock pigeons, American robins, black-capped chickadees, and mourning doves. Prairie species include sparrow species, meadowlark (*Sturnella* spp.), eastern bluebird (*Sialia sialis*), cedar waxwing (*Bombycilla cedrorum*), and American goldfinch (*Spinus tristis*), and gartersnake (*Thamnophis* spp.). Aquatic species that may utilize the pond and its vicinity include northern water snakes (*Nerodia sipedon*), American bullfrog, snapping turtle, and painted turtle. Bat species that may use the forested areas include northern-long eared bat, little brown bat, and tri-colored bat. Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Encroachment from neighboring landowners onto the Village's property is a significant source of ecological stressors at Grand View Conservancy. Landowners are using and maintaining the fringes of the conservancy in numerous locations as extensions of their property. Gardens, garden waste, trash, fire pits, manicured lawns, and drainage ditches are examples of features found in these encroachment zones (Photos 16-18). These land uses are resulting in elevated levels of sediments, nutrients, and other pollutants flowing directly into the adjacent conservancy wetlands as well as large populations of escaped exotic garden ornamental species. Some activities such as ditching to promote drainage may be outright violations of wetland laws. Harboring and allowing the spread of restricted invasive species is also a violation of Chapter NR 40 of the Wisconsin Statutes. Potential solutions to these encroachment issues are discussed later in the CMP (see Community Opportunities section).

Indian Mound and Thrun Marsh Conservancies

The Indian Mound/Thrun Marsh Conservancy complex (including the School Forest parcel) is approximately 22.05-acres. Thrun Marsh to the south is situated on a flat, lacustrine plain landform just east of the Yahara River (Figure 3a). Elevations and relief increase to the north where the landform transitions from ground moraine to a drumlin in the highest elevations of Indian Mound Conservancy. Elevations range from 846 in



the bottom of the marsh in the southern portion of the site to 958 on the top of the drumlin in the northern portion of the site.

Indian Mound/Thrun Marsh Conservancies are comprised of six soil map units: Adrian muck, 0-2% slopes (Ad); Marshan silt loam (Mc); McHenry silt loam, 2-6% slopes (MdB); Military loam, 12-20% slopes, eroded (MhD2); Plano silt loam, gravelly substratum, 2-6% slopes (PoB); and St. Charles silt loam, 2-6% slopes (ScB) (Table 3) (Figure 4a).

Table 3. Indian Mound/Thrun Marsh Conservancies Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
Ad – Adrian muck, 0-2% slopes	18%	Very poorly drained	100% Hydric	Depressions	Marsh, sedge meadows, shrub-carr
Mc – Marshan silt loam	25%	Very poorly drained	100% Hydric	Stream terraces	Wet prairie, wet-mesic prairie
MdB – McHenry silt loam, 2-6% slopes	14%	Well drained	0% Hydric	Moraines	Hardwood forest
MhD2 – Military loam, 12-20% slopes, eroded	37%	Well drained	0% Hydric	Hills	Hardwood forest
PoB – Plano silt loam, gravelly substratum, 2-6% slopes	1%	Well drained	0% Hydric	Outwash plains	Prairie
ScB – St. Charles silt loam, 2-6% slopes	5%	Well drained	3% Hydric	Till Plains	Forest

The Adrian and St. Charles soil series were described in detail in previous sections. The Marshan soils series consists of very deep, poorly and very poorly drained soils that formed in loamy sediments and the underlying sandy and gravelly outwash. These soils occur on plane or slightly concave positions along narrow drainageways on outwash plains, valley trains, and stream terraces under wet prairie and wet-mesic prairie vegetation. Marshan soils are classified as hydric.

The McHenry soil series consists of very deep, well drained soils formed in loess or other silty material and in the underlying loamy till on moraines and till plains. These soils formed under hardwood forest vegetation and are classified as non-hydric.

The Military soil series consists of well drained soils that are moderately deep to a lithic contact with sandstone. These upland soils formed in sandy loam till underlain by sandstone bedrock under hardwood forest vegetation.

The Plano soil series consists of very deep, well drained soils on outwash plains, stream terraces, or till plains. These soils formed in loess or other silty material and in the underlying loamy stratified outwash or sandy loam till under prairie vegetation. Plano soils are classified as non-hydric but they may contain inclusions of hydric soil types.

The Thrun Marsh Conservancy and southern portion of the Indian Mound Conservancy are situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). The drumlin in the northern portion of Indian Mound Conservancy forms the watershed boundary between the Lake Kegonsa-Yahara River HUC-10 Watershed to the south and the Lake Monona-Yahara River HUC-10 Watershed (0709000207) to the north.



Geology and topographic maps indicate Thrun Marsh was historically fully hydrologically connected to the Yahara River. This hydrologic connection was altered significantly with construction of Jaeger Road, Jaeger Park, and residential developments to the north of the park. Prior to 1937, Thrun Marsh was ditched with flow directed southwesterly under Jaeger Road, and outletting to the Yahara River. This connection remains today, though the ditch appears to have been sedimented-in and flow from Jaeger Road west was routed underground.

Several prehistoric Native American mounds exist at Indian Mound Conservancy. Vegetation on these mounds is managed in accordance with the Village's Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010).

Today Thrun Marsh functions largely as a stormwater basin, collecting and treating runoff from the surrounding developed and undeveloped areas. This highlights the importance of restoration and maintenance of the marsh's adjacent uplands, as well as the need to repair the several stormwater issues that exist within the conservancy complex to ensure the marsh is receiving pre-treated, clean water.

A stormwater outlet draining the residential development to the north is present approximately 200 feet north of the marsh (Figure 5c). Unabated stormwater is concentrated and directed from the pipe to the south through a relatively high-gradient draw and eventually to the marsh (Photos 28-31). Through the years, this draw has eroded severely from high flows during large precipitation events and large quantities of sediment has deposited into the marsh. Repair is needed to arrest this erosional process and eliminate sediment deposition in the marsh from this location. Several other outfalls feed water to Thrun Marsh from the surrounding developments (Figure 5c).

Severe rill erosion is also present on the trails in the eastern portion of Indian Mound Conservancy. Erosion is being caused by concentrated stormwater surface runoff from Indian Mound Middle School (Figure 5c) (Photo 32 and 33). Potential solutions to the stormwater issues at Indian Mound/Thrun Marsh Conservancies are discussed later in the CMP.

Indian Mound/Thrun Marsh Conservancies currently consist of approximately 4.13 acres of emergent marsh, 4.34 acres of southern hardwood swamp, 1.71 acres of southern mesic forest, and 11.87 acres of southern dry-mesic forest (Figure 5c). RES estimates approximately 8.47 acres of wetlands are present onsite. Non-native invasive species such as narrow-leaved cattail, Asian bittersweet (*Celastrus orbiculatus*), common buckthorn, and honeysuckles are prevalent at these conservancies. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Due to its size and proximity to residential areas, Indian Mound/Thrun Marsh Conservancies are most likely to be utilized by urban wildlife such as white-tailed deer, raccoons, grey squirrel, opossums, rock pigeons, American robins, black-capped chickadees, mourning doves, and woodpecker species. Bat species may include northern-long eared bat, little brown bat, and tri-colored bat. Thrun Marsh is likely used by a variety of reptile and amphibians such as painted turtles, snapping turtles, American toad, American bullfrog, and spring peepers. Other species may include marsh wren, great blue heron, swamp sparrow, and muskrats. Additionally, Indian Mound and Thrun Marsh may be utilized as a stopover for migratory bird species such as warbler species, vireos (*Vireo* spp.), flycatchers (*Empidonax* spp.), orioles (*Icterus* spp.), thrushes, hummingbirds, and tanagers (*Piranga* spp.).

Appendix C presents a summary of bird observation data from these conservancies derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).



Marsh Woods Conservancy

The approximately 32.80-acre Marsh Woods Conservancy is on a glacial lacustrine plain abutting the north shore of Mud Lake. Topography is relatively flat except for the hills in the eastern portion of the site which have some relief and steeper slopes (Figure 3b). Elevations range from 844 feet along the Mud Lake shoreline in the southern portion of the site to 867 feet on a hillslope in the northeastern portion of the site.

Marsh Woods Conservancy is comprised of ten soil map units: Adrian muck, 0-2% slopes (Ad); Dodge silt loam, 2-6% slopes (DnB); Dodge silt loam, 6-12% slopes, eroded (DnC2); Dresden silt loam, 2-6% slopes (DsB); Granby loamy sand (Gn); Hayfield silt loam, 0-3% slopes (HaA); Marshan silt loam (Mc); McHenry silt loam, 2-6% slopes (MdB); Virgil silt loam, gravelly substratum, 0-3% slopes (VwA); and Water (W) (Table 4) (Figure 4b).

Table 4. Marsh Woods Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
Ad – Adrian muck, 0-2% slopes	16%	Very poorly drained	100% Hydric	Depressions	Marsh, sedge meadows, shrub-carr
DnB – Dodge silt loam, 2-6% slopes	18%	Well drained	0% Hydric	Drumlins	Maple/basswood, oak/hickory forests
DnC2 – Dodge silt loam, 6-12% slopes, eroded	1%	Well drained	0% Hydric	Drumlins	Maple/basswood, oak/hickory forests
DsB – Dresden silt loam, 2-6% slopes	4%	Well drained	0% Hydric	Plains	Oak savanna
Gn – Granby loamy sand	23%	Very poorly drained	100% Hydric	Stream terraces and lake beds	Marsh, sedge meadow, forested wetland
HaA – Hayfield silt loam, 0-3% slopes	2%	Somewhat poorly drained	5% Hydric	Outwash Plains	Tallgrass prairie
Mc – Marshan silt loam	21%	Very poorly drained	100% Hydric	Stream terraces	Wet prairie, wet-mesic prairie
MdB – McHenry silt loam, 2-6% slopes	11%	Well drained	0% Hydric	Moraines	Hardwood forest
VwA – Virgil silt loam, gravelly substratum, 0-3% slopes	3%	Somewhat poorly drained	10% Hydric	Drainageways on outwash plains	Prairie, savanna
W – Water	1%	N/A	N/A	N/A	N/A

The Adrian, Dodge, Hayfield, Marshan, McHenry, and Virgil soil series were described in detail in previous sections. The Dresden soil series consists of very deep, well drained soils on kames, outwash plains, and stream terraces. These soils formed in silty material and the underlying loamy sediments over calcareous gravel and sand under oak savanna vegetation. Dresden soils are classified as non-hydric.

The Granby soil series consists of very deep, poorly drained or very poorly drained soils formed in sandy outwash or sandy glaciolacustrine deposits on outwash plains, lake plains, and glacial drainageways. These soils formed under marsh, sedge meadow, and forested wetland vegetation and are classified as hydric.

The conservancy is situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is influenced largely by groundwater



as well as runoff from the developments to the north. Hydrology in the lowest portions of the site is also influenced by surface water from Mud Lake, especially during periods of high water.

Marsh Woods Conservancy currently consists of approximately 6.52 acres of emergent marsh, 1.10 acres of mesic prairie, 4.47 acres of oak woodland, 1.14 acres of shrub-carr, 0.95 acres of southern hardwood swamp, 7.25 acres of southern sedge meadow, 5.10 acres of surrogate grassland, 1.73 acres of wet meadow, 3.66 acres of active-use park, 0.26 acres of lake, and 0.62 acres of trails (Figure 5d). RES estimates approximately 17.59 acres of wetlands are present onsite. Non-native invasive species such as reed canary grass, narrow-leaved cattail, honeysuckles, and common buckthorn are prevalent in areas. There is also a relatively high-quality sedge meadow in the central portion of the site dominated by the native tussock sedge (*Carex stricta*). This area likely represents remnant conditions since wetlands at Marsh Woods Conservancy appear to have been left relatively undisturbed historically. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Wildlife species that may utilize Marsh Woods Conservancy include emergent and sedge meadow species that are documented at the Lower Mud Lake State Natural Area, such as pied-billed grebe (*Podilymbus podiceps*), American bittern (*Botaurus lentiginosus*), common goldeneye (*Bucephala clangula*), mallard (*Anas platyrhynchos*), northern pintail (*Anas acuta*), blue-winged teal (*Spatula discors*), wood duck (*Aix sponsa*), and Virginia rail (*Rallus limicola*). Reptile and amphibians such as painted turtles, snapping turtles, American toad, American bullfrog, and spring peepers may use the site. Woodland species may include warblers, American robin, ovenbird (*Seiurus aurocapilla*), woodpecker species, black-capped chickadee, and eastern wood peewee (*Contopus virens*). Other species that may use the area are white-tailed deer, raccoons, flying squirrels (*Glaucomys sabrinus*), grey squirrel, woodland vole, muskrats, and bat species such as northern-long eared bat, little brown bat, and tri-colored bat.

Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Siggelkow Road Park

The approximately 5.60-acre Siggelkow Road Park sits on a drumlin landform in the west and a ground moraine landform to the east. The eastern portion of the site is flat while the western portion is relatively steeply sloped (Figure 3c). The site slopes downwards generally from west to east. Elevations range from 871 feet in the southeastern portion of the site to 943 feet on the top of the drumlin in the southwestern portion of the site.

Siggelkow Road Park is comprised of four soil map units: Batavia silt loam, gravelly substratum, 0-2% slopes (BbA); Kidder loam, 12-20% slopes, eroded (KdD2); McHenry silt loam, 6-12% slopes, eroded (MdC2); and St. Charles silt loam, 2-6% slopes (ScB) (Table 5) (Figure 4c).



Table 5. Siggelkow Road Park Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
BbA – Batavia silt loam, gravelly substratum, 0-2% slopes	1%	Well drained	0% Hydric	Outwash plains	Oak savanna
KdD2 – Kidder loam, 12-20% slopes, eroded	42%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest
MdC2 – McHenry silt loam, 6-12% slopes, eroded	33%	Well drained	0% Hydric	Moraines	Hardwood forest
ScB – St. Charles silt loam, 2-6% slopes	24%	Well drained	3% Hydric	Till Plains	Forest

The Kidder, McHenry, and St. Charles soil series were described in detail in previous sections. The Batavia soil series consists of very deep, well drained soils on till plains, glacial outwash plains, and stream terraces. These formed in loess or other silty material and in loamy stratified outwash or sandy loam till under oak savanna vegetation. Batavia soils are classified as non-hydric.

The conservancy is situated in the Lake Monona-Yahara River HUC-10 Watershed (0709000207) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Given the elevations of the site, water is generally shed from the site to lower areas north and east of the conservancy. Groundwater is likely deep at this site due to the well-drained soils.

Several prehistoric Native American mounds exist at Siggelkow Road Park. Vegetation on these mounds is managed in accordance with the Village's Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010).

Siggelkow Road Park currently consists of approximately 3.82 acres of southern dry-mesic forest and 1.78 acres of active-use park (Figure 5e). It is RES' opinion that no wetlands are present onsite. Non-native invasive species such as honeysuckles and common buckthorn are prevalent at this conservancy. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Wildlife species that may use the small dry-mesic southern woodland are likely urban wildlife species such as white-tailed deer, raccoons, grey squirrel, opossums, rock pigeons, American robins, black-capped chickadees, mourning doves, and woodpecker species. Bat species that may use the forest include northern-long eared bat, little brown bat, and tri-colored bat.

Taylor Road Conservancy

The approximately 3.14-acre Taylor Road Conservancy is on a drumlin landform with steep slopes (Figure 3c). Elevations range from 864 in the eastern portion of the site to 929 feet on the top of the drumlin in the northwestern portion of the site. It is surrounded on all sides by residential developments.

The conservancy is comprised of three soil map units: Elburn silt loam, 0-3% slopes (EfB); Gravel pit (GP); and Kidder loam, 12-20% slopes, eroded (KdD2) (Table 6) (Figure 4c).



Table 6. Taylor Road Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
EfB – Elburn silt loam, 0-3% slopes	1%	Somewhat poorly drained	9% Hydric	Stream terraces, outwash plains, drainageways	Prairie
GP – Gravel pit	<1%	N/A	1% Hydric	N/A	N/A
KdD2 – Kidder loam, 12-20% slopes, eroded	99%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest

Elburn and Kidder soil series were described in detail in previous sections. The Gravel Pit (GP) soil map unit typically represents anthropogenic soils.

The conservancy is situated in the Lake Monona-Yahara River HUC-10 Watershed (0709000207) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Given the elevations of the site, water is generally shed from the site in all directions to surrounding lower areas. Groundwater is likely deep at this site due to the well-drained soils.

One prehistoric Native American mound exists at Taylor Road Conservancy. Vegetation on this mound is managed in accordance with the Village's Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010).

Taylor Road Conservancy currently consists of approximately 1.94 acres of conifer plantation and 1.20 acres of woody-invaded surrogate grassland (Figure 5f). It is RES' opinion that no wetlands are present onsite. The site has a long history of disturbance from land use practices such as farming, silviculture, and grading to accommodate residential development. Non-native invasive species such as white mulberry (*Morus alba*), honeysuckles, and common buckthorn are prevalent at this conservancy. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Wildlife species that may use the Taylor Road Conservancy are primarily urban wildlife species such as white-tailed deer, raccoons, grey squirrel, opossums, rock pigeons, American robins, black-capped chickadees, mourning doves, and woodpecker species. The surrogate invaded grassland may be occupied by bird species such as golden-winged (*Vermivora chrysoptera*) and mourning warblers (*Geothlypis Philadelphia*), brown thrashers (*Toxostoma rufum*), eastern kingbird (*Tyrannus tyrannus*), eastern towhees (*Pipilo erythrophthalmus*), white-throated sparrows (*Zonotrichia albicollis*), field sparrows (*Spizella pusilla*), meadowlarks, and grasshopper sparrow (*Ammodramus savannarum*).

Urso Park

The approximately 45.67-acre Urso Park is on a glacial lacustrine plain approximately 0.4 miles northeast of Mud Lake. The southern portion of the site occurs on a ground moraine landform. The topography at the conservancy is relatively flat with steeper slopes in the south (Figure 3b). The site generally slopes downward from south to north and then drains to the west. Elevations range from 855 feet in the ditch in the northern portion of the site to 880 feet on a hillslope on the southwest portion of the site.

Urso Park is comprised of five soil map units: Dodge silt loam, 6-12% slopes, eroded (DnC2); Sable silty clay loam, 0-2% slopes (SaA); St. Charles silt loam, 2-6% slopes (ScB); Virgil silt loam, gravelly substratum, 0-3% slopes (VwA); and Wacousta silty clay loam, 0-2% slopes (Wa) (Table 7) (Figure 4b).

**Table 7. Urso Park Soils and Historical Vegetation Data**

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
DnC2 – Dodge silt loam, 6-12% slopes, eroded	8%	Well drained	0% Hydric	Drumlins	Maple/basswood, oak/hickory forests
SaA – Sable silty clay loam, 0-2% slopes	42%	Poorly drained	85% Hydric	Swales	Sedge meadow, wet prairie
ScB – St. Charles silt loam, 2-6% slopes	13%	Well drained	3% Hydric	Till Plains	Forest
VwA – Virgil silt loam, gravelly substratum, 0-3% slopes	22%	Somewhat poorly drained	10% Hydric	Drainageways on outwash plains	Prairie, savanna
Wa – Wacousta silty clay loam, 0-2% slopes	15%	Very poorly drained	100% Hydric	Interdrumlins	Marsh, sedge meadow, shrub-carr

Dodge, Sable, St. Charles, and Virgil soil series were described in detail in previous sections. The Wacousta soil series consists of very deep, very poorly drained soils formed in silty lacustrine sediments. These soils occur in broad depressions and swales on till plains, moraines, and stream terraces under marsh, sedge meadow, and shrub-carr vegetation. Wacousta soils are classified as hydric.

The conservancy is situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is influenced largely by groundwater as well as runoff from the surrounding agricultural and residential developments. The site drains to the north where an east to west flowing ditch directs water west towards a large wetland complex associated with Mud Lake.

Urso Park currently consists of approximately 1.44 acres of old apple orchard, 0.66 acres of conifer plantation, 5.36 acres of emergent marsh, 7.91 acres of oak woodland, 0.52 acres of pond, 3.81 acres of shrub-carr, 7.34 acres of southern hardwood swamp, 3.40 acres of wet meadow, 5.41 acres of disc golf course, 9.43 acres of dog park, and 0.39 acres of trails (Figure 5g). RES estimates that approximately 20.44 acres of wetlands exist onsite. Portions of the site have a long history of relatively intense land uses such as farming and orchards, and more recently, dog park and disc golf course developments. Non-native invasive species such as reed canary grass, narrow-leaved cattail, multiflora rose (*Rosa multiflora*), and honeysuckles are prevalent at this conservancy. Recent efforts by the Village to remove invasive shrubs from the oak woodland have resulted in improved species composition and structure in this area. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

Wildlife species that likely utilize Urso Park include urban wildlife such as white-tailed deer, raccoons, grey squirrel, opossums, rock pigeons, American robins, black-capped chickadees, and mourning doves. Potential bat species include northern-long eared bat, little brown bat, and tri-colored bat. The emergent wetlands and wet meadows may be used by painted turtles, snapping turtles, American toad, American bullfrog, and spring peepers, marsh wren, great blue heron, swamp sparrow, and muskrats. Animals that may occupy the shrub-carr include willow flycatcher (*Empidonax traillii*), gray catbird (*Dumetella carolinensis*), eastern kingbird, cedar waxwing, and rose-breasted grosbeak (*Pheucticus ludovicianus*).

Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).



Woodland Commons Conservancy

The approximately 5.21-acre Woodland Commons Conservancy is on a drumlin landform with steep slopes (Figure 3c). Elevations range from 861 feet in the western portion of the site to 939 feet on the top of the drumlin in the northern portion of the site. It is surrounded on all sides by commercial and residential developments.

Woodland Commons Conservancy is comprised of three soil map units: Kidder loam, 6-12% slopes, eroded (KdC2); Kidder loam, 12-20% slopes, eroded (KdD2); and Marshan silt loam (Mc) (Table 8) (Figure 4c).

Table 8. Woodland Commons Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
KdC2 – Kidder loam, 6-12% slopes, eroded	14%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest
KdD2 – Kidder loam, 12-20% slopes, eroded	85%	Well drained	0% Hydric	Moraines and drumlins	Oak/hickory forest
Mc – Marshan silt loam	1%	Very poorly drained	100% Hydric	Stream terraces	Wet prairie, wet-mesic prairie

Kidder and Marshan soil series were described in detail in previous sections.

The conservancy is situated in the Lake Monona-Yahara River HUC-10 Watershed (0709000207) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Given the elevations of the site, water is generally shed from the site in all directions to surrounding lower areas. Groundwater is likely deep at this site due to the well-drained soils.

Two prehistoric Native American mounds exist at Woodland Commons Conservancy. Vegetation on these mounds is managed in accordance with the Village's Policy for Preservation and Maintenance of McFarland's Indian Mounds (Village of McFarland 2010).

Woodland Commons Conservancy currently consists of approximately 5.16 acres of southern dry-mesic forest and 0.05 acres of landscaped area (Figure 5h). It is RES' opinion that no wetlands are present onsite. The site has been heavily invaded by non-native, invasive shrubs such as honeysuckles and common buckthorn. More detailed vegetation information is presented in the following Vegetation Assessment Results Section.

The small parcel of dense southern dry woodlands found in Woodland Commons is most likely utilized by urban wildlife such as white-tailed deer, raccoons, grey squirrel, opossums, rock pigeons, American robins, black-capped chickadees, mourning doves, and woodpecker species. Bat species that may use the forest include northern-long eared bat, little brown bat, and tri-colored bat.

Yahara River Conservancy

The approximately 1.11-acre Yahara River Conservancy is on a glacial lacustrine plain landform in the floodplain of the Yahara River. The topography at the conservancy is flat though a shallow ditch in the northern portion of the site has sloped banks (Figure 3a). The site generally slopes downward from north to south. Elevations range from 845 feet along the Yahara River shoreline in the southern portion of the site to 850 feet in the northern portion of the site.

Yahara River Conservancy is comprised of two soil map units: Granby loamy sand (Gn) and Marshan silt loam (Mc) (Table 9) (Figure 4a).



Table 9. Yahara River Conservancy Soils and Historical Vegetation Data

Soil Map Unit Symbol and Name	% of Conservancy	Drainage Classification	Hydric Soil Rating	Landform	Historic Vegetation
Gn – Granby loamy sand	93%	Very poorly drained	100% Hydric	Stream terraces and lake beds	Marsh, sedge meadow, forested wetland
Mc – Marshan silt loam	7%	Very poorly drained	100% Hydric	Stream terraces	Wet prairie, wet-mesic prairie

Granby and Marshan soil series were described in detail in previous sections.

The conservancy is situated in the Lake Kegonsa-Yahara River HUC-10 Watershed (0709000209) within the larger Middle Rock HUC-8 Watershed (07090002) (Figure 1). Hydrology is influenced largely by the Yahara River; however, the site also receives overflow from a small stormwater basin immediately to the north. This basin receives stormwater from the residential developments to the north. An east to west flowing ditch in the northern portion of the site directs overflow from the stormwater basin to the west and then south to the Yahara River.

The Yahara River Conservancy is a relatively small site containing approximately 0.36 acres of emergent marsh, 0.69 acres of floodplain forest, and 0.06 acres of boat launch (Figure 5i). RES estimates that approximately 1.05 acres of wetlands exist onsite. Non-native invasive species such as reed canary grass, narrow-leaved cattail, honeysuckles, and common buckthorn are prevalent at this conservancy.

Due to the proximity to the Lower Mud Lake State Natural Area, wildlife use is likely to be high and include a large variety of bird species. Emergent species known to nest in the vicinity include pied-billed grebe, American bittern, common goldeneye, mallard, northern pintail, blue-winged teal, wood duck, and Virginia rail. Floodplain forest species include a variety of bird species such as warblers, American robin, ovenbird, bald eagle (*Haliaeetus leucocephalus*), and red-tailed hawk (*Buteo jamaicensis*). Other species that may use the area are white-tailed deer, raccoons, flying squirrels, grey squirrel, muskrats, and bat species such as northern-long eared bat, little brown bat, and tri-colored bat.

Appendix C presents a summary of bird observation data from this conservancy derived from the Cornell Lab of Ornithology eBird database (Cornell Lab of Ornithology eBird 2023).

Current Management Practices

The Village currently conducts spring burns at Marsh Woods and Grand View Conservancies every other year. Village staff conduct winter brush removal at the various conservancies and install/maintain fire breaks at Marsh Woods and Grand View Conservancies. The Village also treats resprouting invasive shrubs in areas that have been forestry mowed such as in Grand View Conservancy.

The Village organized volunteer brush cutting workdays in the winter of 2019/2020 at Siggelkow Road Park, Marsh Woods Conservancy, Woodland Commons Conservancy, and Indian Mound/Thrun Marsh Conservancies. Volunteers also periodically conduct brush removal and spot herbicide treatments of invasive species at Marsh Woods Conservancy.



Vegetation Assessment Results

Introduction

The emphasis of the baseline assessments was to quantify plant species abundance; vegetation cover type structure, composition, quality, and extent; and extent and location of rare and invasive species. RES delineated 28 MUs across the ten conservancies (Figure 5, Table 10) and collected baseline vegetation data within each. The data represent conditions on the dates of the surveys.

Table 10. Management Unit Information

Conservancy	Management Unit ID	Habitat Type	Surface Area (ac)
Babcock Conservancy	BMU-1	Southern mesic forest	0.57
	BMU-2	Emergent marsh	4.40
		Southern hardwood swamp	1.95
Grand View Conservancy	GMU-1A-EM	Emergent marsh	2.21
	GMU-1A-HS	Southern hardwood swamp	4.09
	GMU-1A-WM	Wet meadow	3.86
		Wet-mesic Prairie	1.89
	GMU-1B	Emergent marsh	5.34
		Southern hardwood swamp	0.67
	GMU-2A	Mesic prairie	2.45
	GMU-2B	Invaded mesic prairie	3.21
	GMU-3A	Southern mesic forest	4.31
	GMU-3B	Southern mesic forest	2.89
Indian Mound/Thrun Marsh Conservancies	ITMU-1	Southern dry-mesic forest	11.87
		Southern mesic forest	1.71
	ITMU-2	Emergent marsh	4.13
		Southern hardwood swamp	4.34
Marsh Woods Conservancy	MMU-1	Oak woodland	4.47
	MMU-2	Mesic prairie	1.10
		Surrogate grassland	5.10
	MMU-3	Emergent marsh	6.52
		Shrub-carr	1.14
		Southern hardwood swamp	0.95
		Southern sedge meadow	7.25
		Wet meadow	1.73
Siggelkow Road Park	SMU-1	Southern dry-mesic forest	3.82
Taylor Road Conservancy	TMU-1	Conifer plantation	1.94
	TMU-2	Invaded surrogate grassland	1.20
Urso Park	UMU-1-EM	Emergent marsh	5.36
	UMU-1-HS	Southern hardwood swamp	7.33
	UMU-1-SCE	Shrub-carr	2.27
	UMU-1-SCN	Shrub-carr	1.55
	UMU-1-WMN	Wet meadow	2.74
	UMU-1-WMS	Wet meadow	0.66
	UMU-2	Oak woodland	7.91
	UMU-3	Conifer plantation	0.31
		Orchard	1.44
Woodland Commons Conservancy	WMU-1	Southern dry-mesic forest	5.16
Yahara River Conservancy	YMU-1	Emergent marsh	0.36
		Floodplain forest	0.69



Vegetation mapping efforts indicate the Village conservancies are currently comprised of a total of approximately 1.44 acres of old apple orchard, 2.60 acres of conifer plantation, 28.42 acres of emergent marsh, 0.69 acres of floodplain forest, 3.21 acres of woody-invaded mesic prairie, 1.20 acres of woody-invaded surrogate grassland, 3.55 acres of mesic prairie, 12.38 acres of oak woodland, 4.95 acres of shrub-carr, 20.85 acres of southern dry-mesic forest, 19.34 acres of southern hardwood swamp, 9.48 acres of southern mesic forest, 7.25 acres of southern sedge meadow, 5.10 acres of surrogate grassland, 9.00 acres of wet meadow, 1.89 acres of wet-mesic prairie, and 1.20 acres of pond. In total, RES estimates that approximately 72.74 acres of wetlands exist across the ten conservancies. Several other cover types exist within the conservancies that are not the subject of this CMP, including trails, landscaped/developed, disc golf course, dog park, boat launch, and active-use park.

Plant Community Descriptions

Conifer plantations are present at Taylor Road Conservancy and Urso Park. Dominant overstory species in these areas include red pine and Norway spruce (*Picea abies*) often with an understory composed of honeysuckle and/or common buckthorn. In addition, old orchard plantings are found at Urso Park, which are dominated by apple (*Malus pumila*) in the overstory and pasture grasses such as timothy (*Phleum pratense*) in the understory.

Emergent marsh wetlands are present at all conservancies except Siggelkow Road Park, Taylor Road Conservancy, and Woodland Commons Conservancy. Emergent marshes are generally dominated by species such as narrow-leaved cattail and reed canary grass, though significant stands of the native broad-leaved cattail (*Typha latifolia*) are present at Urso Park.

Yahara River Conservancy is the only conservancy containing floodplain forest wetlands. Floodplain forest is dominated by cottonwood in the overstory and pussy willow (*Salix discolor*), red-osier dogwood (*Cornus sericea*), and common buckthorn in the understory.

Mesic prairie is found at Grand View and Marsh Woods Conservancies and is dominated by herbaceous species such as Indian grass (*Sorghastrum nutans*) and Canada goldenrod (*Solidago canadensis*). Woody-invaded mesic prairie, found at Grand View Conservancy, has a similar herbaceous layer but with high cover of shrubs including gray dogwood (*Cornus foemina* ssp. *racemosa*) and honeysuckle.

Surrogate grassland, found at Marsh Woods Conservancy, is dominated by non-native, cool-season grasses such as Kentucky bluegrass (*Poa pratensis*) and smooth brome (*Bromus inermis*). Woody-invaded surrogate grassland, found at Taylor Road Conservancy, has a similar herbaceous layer but with high cover of shrubs and trees including black walnut (*Juglans nigra*), honeysuckle, and smooth sumac (*Rhus glabra*). These areas are also heavily invaded by crown vetch (*Securigera varia*).

Oak woodland is currently found at Marsh Woods Conservancy and Urso Park. Oak woodlands are dominated by species such as white oak, bur oak (*Quercus macrocarpa*), and shagbark hickory (*Carya cordiformis*) with total canopy closure over 50% but less than 100%.

Shrub-carr wetlands are found at Marsh Woods Conservancy and Urso Park and are generally dominated by dogwoods (*Cornus* spp.), sandbar willow (*Salix interior*), and several other willows species (*Salix* spp.).

Southern dry-mesic forest is found at Siggelkow Road Park, Woodland Commons Conservancy, and Indian Mound Conservancy. This forest type is generally dominated by species such as white oak, red oak (*Quercus rubra*), and black cherry (*Prunus serotina*) in the overstory; gray dogwood, honeysuckle, and common buckthorn in the sapling/shrub stratum; and enchanter's nightshade (*Circaea canadensis*), wild geranium



(*Geranium maculatum*), and white snakeroot (*Ageratina altissima*) in the herbaceous stratum. Canopy closure exceeded 100% in southern dry-mesic forests which differentiated it from oak woodland (50-99% canopy closure). Dry-mesic forest was differentiated from mesic forest by having higher proportions of black oak (*Quercus velutina*), red oak, and white oak which are more characteristic of forests with drier soil moisture regimes.

Southern mesic forest is found at Babcock, Grandview, and Indian Mound/Thrun Marsh Conservancies. The species composition of the southern mesic forests within the Village varies widely between sites. For instance, mesic forest at Babcock Conservancy is dominated by typical mesic forest species such as sugar maple and American basswood. Whereas mesic forest at Grand View Conservancy is a disturbance-adapted mesic forest type dominated almost exclusively by boxelder (*Acer negundo*) in the overstory. In general, mesic forest was differentiated from dry-mesic forest by having a higher proportion of species such as American basswood and hackberry (*Celtis occidentalis*) versus black, red, and white oak which are more characteristic of dry-mesic and dry forest types.

Southern hardwood swamp wetlands are present at all conservancies except Siggelkow Road Park, Taylor Road Conservancy, Woodland Commons Conservancy, and Yahara River Conservancy. Southern hardwood swamp species compositions are variable between sites; however, this habitat is generally dominated by silver maple, cottonwood, and black willow (*Salix nigra*) in the overstory; dogwoods, sandbar willow, pussy willow, and green ash in the sapling/shrub stratum; and reed canary grass in the herbaceous stratum. Orange jewelweed (*Impatiens capensis*) and white avens (*Geum canadense*) were also commonly found in the herbaceous stratum of the various southern hardwood swamp wetlands.

Southern sedge meadow is found at Marsh Woods Conservancy and is dominated by tussock sedge (*Carex stricta*) and to a lesser extent, blue-joint grass (*Calamagrostis canadensis*). The hummocky terrain of the wet meadow wetlands at Urso Park indicate that sedge meadow was the likely plant community in this area historically but it has since been invaded by reed canary grass due to the extensive soil and hydrologic disturbances that have occurred in the past.

Wet meadow wetlands are present at Grand View Conservancy, Marsh Woods Conservancy, and Urso Park and are dominated by reed canary grass. Minor components of this habitat type include fowl manna grass (*Glyceria striata*), blue vervain (*Verbena hastata*), and stinging nettle (*Urtica dioica*).

A patch of transitional wet-mesic prairie is present mid-slope between wet meadow wetlands and mesic prairie in the southern portion of Grand View Conservancy. Recent forestry mowing in this area has resulted in a flush of native species germinating from the seed bank. The wet-mesic prairie is dominated by recently cut and resprouting honeysuckle, sedges (*Carex* spp.), and saw-tooth sunflower (*Helianthus grosseserratus*). Numerous Michigan lily (*Lilium michiganense*) individuals are found in the wetter portions of this area and the neighboring wet meadow.

Percent Cover

In summer 2022, total native percent cover ranged from 32% in GMU-1A-EM (emergent marsh portions of Grand View Conservancy) to 215% in ITMU-1 (Indian Mound Conservancy dry-mesic forest) (Table 11). Total non-native percent cover ranged from 4% in BMU-1 (mesic forest portion of Babcock Conservancy) to 107% in UMU-3 (orchard/conifer plantation portion of Urso Park). Total invasive species cover ranged from 0% in BMU-1 (mesic forest portion of Babcock Conservancy) to 77% in BMU-2 (wetland portion of Babcock Conservancy) and GMU-1A-EM (emergent marsh portions of Grand View Conservancy). Other highly invaded areas in summer 2022 included GMU-3A (mesic forest in southern portion of Grand View



Conservancy) at 74% invasive cover and GMU-1A-HS (hardwood swamp portion of Grand View Conservancy) at 63% invasive cover.

In spring 2023, total native percent cover ranged from 5% in GMU-1A-EM (emergent marsh portions of Grand View Conservancy) to 227% in BMU-1 (mesic forest portion of Babcock Conservancy) (Table 12). Total non-native percent cover ranged from 1% in BMU-1 (mesic forest portion of Babcock Conservancy) to 64% in TMU-2 (invaded surrogate grassland portion of Taylor Road Conservancy). Total invasive species cover ranged from 0% in BMU-1 (mesic forest portion of Babcock Conservancy) to 59% in GMU-1A-WM (wet meadow portion of Grand View Conservancy). Other highly invaded areas in spring 2023 included GMU-3A (mesic forest in southern portion of Grand View Conservancy) at 56% invasive cover and YMU-1 (Yahara River Conservancy) at 53% invasive cover.

The complete percent cover data set for spring and summer surveys is presented in Appendix D.

Table 11. Summer 2022 Absolute Percent Cover Data Summary

Conservancy	MU ID	Canopy Stratum				Sapling/Shrub Stratum				Vine Stratum				Herbaceous Stratum				All Strata Combined			
		T	N	NN	I	T	N	NN	I	T	N	NN	I	T	N	NN	I	T	N	NN	I
Babcock	BMU-1	100%	100%	0%	0%	18%	17%	1%	0%	0%	0%	0%	0%	31%	28%	3%	0%	149%	145%	4%	0%
	BMU-2	25%	24%	1%	0%	16%	5%	11%	9%	4%	4%	0%	0%	133%	47%	86%	68%	178%	80%	98%	77%
Grand View	GMU-1A-EM	0%	0%	0%	0%	2%	0%	2%	2%	0%	0%	0%	0%	120%	42%	78%	75%	122%	32%	80%	77%
	GMU-1A-HS	58%	57%	1%	0%	24%	11%	13%	13%	5%	5%	0%	0%	99%	44%	55%	50%	186%	117%	69%	63%
	GMU-1A-WM	0%	0%	0%	0%	15%	9%	6%	6%	2%	2%	0%	0%	142%	83%	59%	52%	159%	94%	65%	59%
	GMU-1B	7%	6%	1%	1%	6%	6%	0%	0%	4%	4%	0%	0%	98%	42%	56%	53%	115%	58%	57%	54%
	GMU-2A	1%	1%	0%	0%	38%	10%	28%	28%	0%	0%	0%	0%	80%	57%	23%	3%	119%	68%	51%	31%
	GMU-2B	<1	<1	0%	0%	75%	53%	22%	20%	8%	8%	0%	0%	142%	125%	17%	2%	225%	186%	39%	22%
	GMU-3A	77%	76%	1%	1%	52%	7%	45%	45%	1%	1%	0%	0%	62%	28%	34%	28%	192%	112%	80%	74%
	GMU-3B	117%	112%	5%	5%	18%	9%	9%	9%	9%	9%	0%	0%	97%	82%	15%	11%	241%	212%	29%	25%
Indian Mound/Thrun Marsh	ITMU-1	104%	103%	1%	1%	45%	34%	11%	8%	18%	8%	10%	10%	87%	70%	17%	3%	254%	215%	39%	22%
	ITMU-2	42%	32%	10%	0%	56%	31%	25%	18%	6%	6%	0%	0%	97%	52%	45%	34%	201%	121%	80%	52%
Marsh Woods	MMU-1	90%	90%	0%	0%	54%	46%	8%	6%	15%	15%	0%	0%	54%	44%	10%	6%	213%	195%	18%	12%
	MMU-2	3%	3%	0%	0%	28%	21%	7%	7%	2%	2%	0%	0%	151%	65%	86%	3%	184%	91%	93%	10%
	MMU-3	30%	29%	1%	1%	36%	30%	6%	4%	5%	5%	0%	0%	129%	78%	51%	43%	200%	142%	58%	48%
Siggelkow Rd	SMU-1	92%	92%	0%	0%	18%	5%	13%	13%	5%	5%	0%	0%	74%	60%	14%	7%	189%	162%	27%	20%
Taylor Rd	TMU-1	106%	97%	9%	9%	30%	6%	24%	20%	7%	7%	0%	0%	43%	19%	24%	16%	186%	129%	57%	45%
	TMU-2	51%	49%	2%	2%	39%	34%	5%	5%	5%	5%	0%	0%	100%	27%	73%	25%	195%	115%	80%	32%
Urso	UMU-1-EM	0%	0%	0%	0%	3%	1%	2%	2%	0%	0%	0%	0%	108%	74%	34%	28%	111%	75%	36%	30%
	UMU-1-HS	53%	53%	0%	0%	45%	33%	12%	12%	12%	12%	0%	0%	56%	48%	8%	34%	166%	146%	20%	46%
	UMU-1-SCE	7%	6%	1%	0%	52%	46%	6%	6%	4%	4%	0%	0%	56%	34%	22%	17%	119%	90%	29%	23%
	UMU-1-SCN	40%	39%	1%	1%	48%	33%	15%	15%	14%	14%	0%	0%	59%	41%	18%	14%	161%	127%	34%	30%
	UMU-1-WMN	1%	1%	0%	0%	15%	8%	7%	7%	3%	3%	0%	0%	100%	39%	61%	38%	119%	51%	68%	45%
	UMU-1-WMS	2%	2%	0%	0%	5%	5%	0%	0%	5%	5%	0%	0%	104%	45%	59%	54%	116%	57%	59%	54%
	UMU-2	57%	56%	1%	1%	35%	18%	17%	14%	9%	9%	0%	0%	58%	43%	15%	9%	159%	126%	33%	24%
Woodland Commons	WMU-1	113%	108%	5%	5%	56%	26%	30%	27%	8%	8%	0%	0%	94%	78%	16%	11%	241%	190%	51%	43%
Yahara River	YMU-1	63%	63%	0%	0%	54%	39%	15%	15%	9%	9%	0%	0%	71%	23%	48%	41%	197%	134%	63%	56%

Note: T = Total, N = Native, NN = Non-native, I = Invasive

Table 12. Spring 2023 Absolute Percent Cover Data Summary

Conservancy	MU ID	Canopy Stratum				Sapling/Shrub Stratum				Vine Stratum				Herbaceous Stratum				All Strata Combined			
		T	N	NN	I	T	N	NN	I	T	N	NN	I	T	N	NN	I	T	N	NN	I
Babcock	BMU-1	100%	100%	0%	0%	18%	17%	1%	<1%	0%	0%	0%	0%	110%	110%	0%	0%	228%	227%	1%	0%
	BMU-2	25%	24%	1%	0%	16%	5%	11%	9%	4%	4%	0%	0%	24%	15%	9%	7%	69%	48%	21%	16%
Grand View	GMU-1A-EM	0%	0%	0%	0%	2%	0%	2%	2%	0%	0%	0%	0%	41%	5%	36%	36%	43%	5%	38%	38%
	GMU-1A-HS	58%	57%	1%	0%	24%	11%	13%	13%	5%	5%	0%	0%	43%	11%	32%	24%	130%	84%	46%	37%
	GMU-1A-WM	0%	0%	0%	0%	15%	9%	6%	6%	2%	2%	0%	0%	87%	32%	55%	53%	104%	43%	61%	59%
	GMU-1B	7%	6%	1%	1%	6%	6%	0%	0%	2%	2%	0%	0%	38%	14%	24%	12%	53%	28%	25%	13%
	GMU-2A	1%	1%	0%	0%	38%	10%	28%	28%	0%	0%	0%	0%	44%	18%	26%	5%	83%	29%	54%	33%
	GMU-2B	<1%	<1%	0%	0%	75%	53%	22%	20%	8%	8%	0%	0%	37%	11%	26%	10%	120%	72%	48%	30%
	GMU-3A	77%	76%	1%	1%	52%	7%	45%	45%	0%	0%	0%	0%	23%	9%	14%	10%	152%	92%	60%	56%
	GMU-3B	117%	112%	5%	5%	18%	9%	9%	9%	9%	9%	0%	0%	65%	41%	24%	21%	209%	171%	38%	35%
Indian Mound/Thrun Marsh	ITMU-1	104%	103%	1%	1%	45%	34%	11%	8%	17%	7%	10%	10%	45%	43%	2%	1%	211%	187%	24%	20%
	ITMU-2	42%	32%	10%	0%	56%	31%	25%	18%	6%	6%	0%	0%	26%	15%	11%	9%	130%	84%	46%	27%
Marsh Woods	MMU-1	90%	90%	0%	0%	54%	46%	8%	6%	15%	15%	0%	0%	55%	44%	11%	9%	214%	195%	19%	15%
	MMU-2	3%	3%	0%	0%	28%	21%	7%	7%	2%	2%	0%	0%	27%	10%	17%	2%	60%	36%	24%	9%
	MMU-3	30%	29%	1%	1%	36%	30%	6%	4%	2%	2%	0%	0%	34%	18%	16%	12%	102%	79%	23%	17%
Siggelkow Rd	SMU-1	92%	92%	0%	0%	18%	5%	13%	13%	5%	5%	0%	0%	46%	36%	10%	6%	161%	138%	23%	19%
Taylor Rd	TMU-1	106%	97%	9%	9%	30%	6%	24%	20%	7%	7%	0%	0%	31%	10%	21%	16%	174%	120%	54%	45%
	TMU-2	51%	49%	2%	2%	39%	34%	5%	5%	5%	5%	0%	0%	63%	6%	57%	8%	158%	94%	64%	15%
Urso	UMU-1-EM	0%	0%	0%	0%	3%	1%	2%	2%	0%	0%	0%	0%	34%	6%	28%	26%	37%	7%	30%	28%
	UMU-1-HS	53%	53%	0%	0%	45%	33%	12%	12%	12%	12%	0%	0%	44%	18%	26%	24%	154%	116%	38%	36%
	UMU-1-SCE	7%	6%	1%	0%	52%	46%	6%	6%	3%	3%	0%	0%	42%	18%	24%	21%	104%	73%	31%	27%
	UMU-1-SCN	40%	39%	1%	1%	48%	33%	15%	15%	14%	14%	0%	0%	44%	15%	29%	19%	146%	101%	45%	35%
	UMU-1-WMN	1%	1%	0%	0%	15%	8%	7%	7%	2%	2%	0%	0%	46%	8%	38%	37%	64%	19%	45%	44%
	UMU-1-WMS	2%	2%	0%	0%	5%	5%	0%	0%	5%	5%	0%	0%	55%	4%	51%	51%	67%	16%	51%	51%
	UMU-2	57%	56%	1%	1%	35%	18%	17%	14%	7%	7%	0%	0%	26%	18%	8%	7%	125%	99%	26%	22%
	UMU-3	70%	35%	35%	0%	40%	30%	10%	8%	0%	0%	0%	0%	51%	7%	44%	33%	161%	72%	89%	41%
Woodland Commons	WMU-1	113%	108%	5%	5%	56%	26%	30%	27%	8%	8%	0%	0%	41%	27%	14%	9%	218%	169%	49%	41%
Yahara River	YMU-1	63%	63%	0%	0%	54%	39%	15%	15%	4%	4%	0%	0%	45%	4%	41%	38%	166%	110%	56%	53%

Note: T = Total, N = Native, NN = Non-native, I = Invasive



Floristic Quality Assessment

In summer 2022, total species richness ranged from 40 at Yahara River Conservancy to 164 at Indian Mound/Thrun Marsh Conservancies (Table 13). Native species richness ranged from 23 to 123 at those same conservancies. Non-native species richness ranged from 14 at Woodland Commons Conservancy to 43 at Grandview Conservancy. In spring 2023, total species richness ranged from 24 at Yahara River Conservancy to 96 at Grand View Conservancy (Table 14). Native species richness ranged from 17 at Yahara River Conservancy to 70 at Indian Mound/Thrun Marsh Conservancies. Non-native species richness ranged from 7 at Yahara River Conservancy to 31 at Grand View Conservancy.

Table 13. Summer 2022 Floristic Quality Assessment Data Summarized by Conservancy

Conservancy	wMean C		wFQI		Species Richness		
	Native	All	Native	All	Native	Non-native	Total
Babcock	3.8	2.9	30.4	26.6	63	19	82
Grand View	3.3	2.4	34.3	29.0	109	43	152
Indian Mound/Thrun Marsh	4.1	3.1	45.7	39.6	123	41	164
Marsh Woods	3.6	2.8	37.6	32.9	110	33	143
Siggelkow Rd	3.3	2.2	20.8	16.9	39	20	59
Taylor Rd	2.8	1.7	17.0	13.2	36	24	60
Urso	3.5	2.7	37.7	33.0	113	35	148
Woodland Commons	3.5	2.7	24.7	21.9	50	14	64
Yahara River	2.8	1.6	13.3	10.1	23	17	40

Table 14. Spring 2023 Floristic Quality Assessment Data Summarized by Conservancy

Conservancy	wMean C		wFQI		Species Richness		
	Native	All	Native	All	Native	Non-native	Total
Babcock	4.3	3.4	25.5	22.8	35	9	44
Grand View	3.6	2.4	29.0	23.9	65	31	96
Indian Mound/Thrun Marsh	4.1	3.2	34.3	30.3	70	20	90
Marsh Woods	3.7	2.7	27.1	23.1	54	20	74
Siggelkow Rd	4.0	2.8	22.5	18.9	32	13	45
Taylor Rd	3.6	2.2	18.5	14.5	27	17	44
Urso	3.4	2.3	26.5	22.2	62	27	89
Woodland Commons	3.8	2.8	23.7	20.4	40	14	54
Yahara River	3.2	2.3	13.3	11.2	17	7	24

In summer 2022, wMean C, considering all species (native and non-native), ranged from 0.6 at GMU-3A (mesic forest in southern portion of Grand View Conservancy) to 4.6 in BMU-1 (mesic forest portion of Babcock Conservancy) (Table 15). wFQI, considering all species, ranged from 3.7 in GMU-3A (mesic forest in southern portion of Grand View Conservancy) to 35.5 in ITMU-1 (mesic and dry-mesic forest at Indian Mound Conservancy). In spring 2023, wMean C, considering all species, ranged from 0.3 at GMU-3A (mesic forest in southern portion of Grand View Conservancy) to 5.4 in BMU-1 (mesic forest portion of Babcock Conservancy) (Table 16). wFQI considering all species ranged from 1.6 in GMU-1A-EM (emergent marsh portions of Grand View Conservancy) to 28.9 in ITMU-1 (upland forested portion of Indian Mound/Thrun Marsh Conservancies).

Lower Mean C/FQI scores indicate plant communities dominated by plant species that are relatively tolerant



of disturbance while higher Mean C/FQI scores indicate plant communities dominated by plant species that are relatively intolerant of disturbance. Provisional FQA benchmarks have been developed by the WDNR for wetland systems using wMean C (Marti & Bernthal 2019) which is helpful for interpreting the results of this FQA. Five categories of habitat quality exist based on FQA benchmarks: Excellent, Good, Fair, Poor, and Very Poor. Provisional benchmarks do not yet exist for upland habitats making FQA scores in those areas more difficult to interpret.

Using wMean C scores, the wetland communities within Village conservancies ranged in quality from Very Poor to Fair. YMU-1, a floodplain forest wetland, rated as Very Poor. UMU-1-EM, an emergent marsh wetland in Urso Park, rated as Fair. The numerous other wetlands and wetland complexes within the Village conservancies, including BMU-2, GMU-1A, GMU-1B, ITMU-2, MMU-3, and UMU-1 all rated as poor for their respective wetland types. Though not assessed individually apart from the larger wetland complex, the sedge meadow wetland at Marsh Woods Conservancy by itself is a relatively high-quality wetland that would likely be rated as Good or Excellent.

MUs with relatively low Mean C/FQI scores were GMU-3A (mesic forest in southern portion of Grand View Conservancy), GMU-1A-EM (emergent marsh wetlands at Grand View Conservancy), and UMU-1 (wet meadow wetlands at Urso Park). MUs with relatively high Mean C/FQI scores were ITMU-1 (mesic and dry-mesic forest at Indian Mound Conservancy), MMU-1 (oak woodland at Marsh Woods Conservancy), BMU-1 (mesic forest portion of Babcock Conservancy), and UMU-2 (oak woodland portion of Urso Park). FQA data collected after restoration activities have been completed will indicate whether the treatments have had a positive effect on habitat quality.

The complete FQA data set for spring and summer surveys is presented in Appendix E.

Table 15. Summer 2022 Floristic Quality Assessment Data Summarized by Management Unit

Conservancy	MU ID	wMean C		wFQI		Species Richness		
		Native	All	Native	All	Native	Non-native	Total
Babcock	BMU-1	4.7	4.6	14.1	15.4	9	2	11
	BMU-2	3.3	1.7	25.1	15.0	59	19	78
Grand View	GMU-1A-EM	2.9	1.0	11.6	4.7	16	6	22
	GMU-1A-HS	2.6	1.7	14.9	10.4	32	7	39
	GMU-1A-WM	3.9	2.3	27.4	18.2	50	13	63
	GMU-1B	2.9	1.5	16.4	9.0	31	6	37
	GMU-2A	2.0	1.3	12.2	10.0	36	24	60
	GMU-2B	2.7	2.2	13.9	12.8	27	6	33
	GMU-3A	1.1	0.6	5.2	3.7	22	11	33
	GMU-3B	2.8	2.5	14.9	15.1	28	9	37
Indian Mound/Thrun Marsh	ITMU-1	4.2	3.5	36.4	35.5	76	28	104
	ITMU-2	3.6	2.4	31.5	24.0	75	26	101
Marsh Woods	MMU-1	4.4	4.1	31.9	32.7	52	11	63
	MMU-2	2.9	1.4	21.2	12.1	53	18	71
	MMU-3	3.4	2.5	26.0	22.1	58	19	77
Siggelkow Rd	SMU-1	4.4	3.6	27.3	27.9	39	20	59
Taylor Rd	TMU-1	5.3	4.0	24.9	22.8	22	11	33
	TMU-2	2.4	1.4	10.5	8.6	20	19	39
Urso	UMU-1-EM	3.2	2.3	18.1	13.8	32	5	37
	UMU-1-HS	3.8	2.8	21.9	18.2	34	8	42
	UMU-1-SCE	3.2	2.4	20.6	17.5	41	11	52
	UMU-1-SCN	3.0	2.4	15.8	14.4	27	9	36
	UMU-1-WMN	3.1	1.3	15.6	8.5	25	15	40
	UMU-1-WMS	4.0	1.9	13.7	7.5	12	3	15
	UMU-2	4.0	3.3	29.2	27.2	53	14	67



Conservancy	MU ID	wMean C		wFQI		Species Richness		
		Native	All	Native	All	Native	Non-native	Total
	UMU-3	2.8	1.7	14.0	10.3	25	12	37
Woodland Commons	WMU-1	3.8	3.1	26.7	24.9	50	14	64
Yahara River	YMU-1	2.3	1.5	11.2	9.8	23	17	40

Table 16. Spring 2023 Floristic Quality Assessment Data Summarized by Management Unit

Conservancy	MU ID	wMean C		wFQI		Species Richness		
		Native	All	Native	All	Native	Non-native	Total
Babcock	BMU-1	5.4	5.4	20.4	21.7	14	2	16
	BMU-2	3.2	2.4	17.4	14.9	30	9	39
Grand View	GMU-1A-EM	7.0	0.8	7.0	1.6	1	3	4
	GMU-1A-HS	2.4	1.5	10.1	8.2	18	10	28
	GMU-1A-WM	4.9	2.0	20.1	10.4	17	9	26
	GMU-1B	3.8	1.9	15.0	10.1	16	12	28
	GMU-2A	2.5	1.1	10.3	6.3	17	17	34
	GMU-2B	2.7	1.6	10.5	7.7	15	7	22
	GMU-3A	0.6	0.3	2.0	1.7	12	11	23
Indian Mound/Thrun Marsh	GMU-3B	3.3	2.6	17.8	16.7	30	10	40
	ITMU-1	4.2	3.7	29.2	28.9	49	12	61
Marsh Woods	ITMU-2	3.3	2.4	19.4	16.9	35	14	49
	MMU-1	4.9	4.5	28.4	30.3	34	11	45
	MMU-2	3.0	1.9	13.9	10.5	21	11	32
Siggelkow Rd	MMU-3	3.0	2.6	14.4	14.7	23	9	32
	SMU-1	4.7	3.9	26.5	26.3	32	13	45
Taylor Rd	TMU-1	5.6	4.2	22.9	20.8	17	8	25
	TMU-2	2.7	1.6	10.8	8.8	16	14	30
Urso	UMU-1-EM	2.6	0.6	6.4	1.7	6	4	10
	UMU-1-HS	3.8	2.9	20.4	17.4	29	8	37
	UMU-1-SCE	3.3	2.3	17.2	13.8	27	8	35
	UMU-1-SCN	2.8	2.0	13.0	11.3	21	12	33
	UMU-1-WMN	2.8	0.8	9.7	3.6	12	7	19
	UMU-1-WMS	4.1	1.0	10.9	3.0	7	2	9
	UMU-2	4.1	3.4	20.8	20.4	26	10	36
	UMU-3	3.1	1.5	10.3	7.9	11	18	29
Woodland Commons	WMU-1	3.9	3.1	24.6	23.1	40	14	54
Yahara River	YMU-1	2.5	1.6	10.1	7.9	17	7	24

Rare Plants

RES located and mapped one sensitive plant species during the summer of 2022: obovate beak grain (*Diarrhena obovata*, State Endangered). The population was located throughout the understory at Indian Mound/Thrun Marsh Conservancies (Figure 7). It is relatively common for this species to be planted in shady parts of residential yards; however, no records are known to exist indicating that this is a planted population (pers. comm. S. Larson), nor does it appear that this population has escaped from nearby landscaped areas. No other rare plants were documented at any other Village conservancy during summer 2022 or spring 2023.

Invasive Species

Invasive species such as common buckthorn, Tartarian honeysuckle (*Lonicera tatarica*), white mulberry (*Morus alba*), Canada thistle (*Cirsium arvense*), narrow-leaved cattail, and reed canary grass are prevalent at



Village conservancies. One particularly interesting non-native species population located and mapped by RES was a population of strawberry ground-cherry (*Physalis alkekengi*) (Photo 18) in GMU-3A (mesic forest in southern portion of Grand View Conservancy) which has likely escaped from nearby residential gardens. This popular ornamental is native to Europe and Asia, and the characteristic inflated calyx of this genus creates a bladder or lantern-shaped structure enclosing the fruit. Locations and extents of significant invasive species populations mapped in 2022 are presented in Figure 6a-Figure 6i.



Conceptual Ecological Restoration Plan

Introduction

Reflecting the diversity of biotic and abiotic conditions of the Village conservancies, fourteen target natural communities are proposed for this restoration effort: oak woodland, southern dry-mesic forest, southern mesic forest, southern hardwood swamp, floodplain forest, shrub-carr, emergent marsh, pond shoreline, southern sedge meadow, wet prairie, wet-mesic prairie, mesic prairie, dry-mesic prairie, and conifer plantation. A variety of methods are proposed to accomplish this including invasive species removal, native seeding/planting, prescribed fire, and habitat enhancement feature installation.

Some of the recommended restoration actions will result in substantial reductions in tree and shrub cover while other recommendations will result in almost no perceptible change to the appearance of the system. The CMP seeks to address both the positive and negative aspects of these changes.

Conceptual restoration plan maps are shown on Figure 8a-Figure 8i in Appendix A.

Basis of Design

Historical Ecology

The primary goal of this CMP is to restore the historical ecological conditions of the conservancies where appropriate and feasible. Many of the wooded plant communities in the vicinity of the Village historically consisted of open-canopy savannas and woodlands. Tree canopy cover in savannas range from 10-50%, woodlands range from 50-99%, and, in forest systems, canopy cover exceeds 99%. These systems were typically dominated by oaks and hickories. Closed-canopy forests, such as southern mesic forest, did exist historically in this area. In those locations, RES is recommending restoring and maintaining the closed canopy structure. With lack of maintenance, particularly fire, and invasive species colonization since European settlement, forest canopies in this area have gradually closed and forests have become overstocked by shade-tolerant species. This condition is not desirable from an ecological perspective because it reduces wildlife habitat quality, reduces biological diversity, denudes the herbaceous layer increasing runoff and reducing downstream water quality, and allows for the ready transmission of forest pests and diseases.

Forest thinning and invasive shrub removal is recommended for most of the Village conservancies to various degrees. The most substantial changes in canopy structure are proposed for portions of Grand View Conservancy, Siggelkow Road Park, Taylor Road Conservancy, and Woodland Commons Conservancy. Proposed reductions in tree cover in these areas range from 40-71% depending on the conservancy (Table 17). Shrub enhancement is proposed for most wooded areas so the reduction in shrub cover will be temporary. The mesic forest canopy at Grand View Conservancy will be significantly denuded in the short-term; however, to expedite recovery of these systems, dense tree and shrub planting with fast-growing species is proposed. The Village could also opt to phase tree removal and reforestation in these areas to minimize canopy reduction at any given point in time.



Table 17. Pre- and Post-restoration Tree and Shrub Cover

Conservancy	MU	Proposed Community	Pre-restoration % Cover		Post-restoration % Cover	
			Tree	Shrub	Tree	Shrub**
Grand View*	GMU-3A	Mesic Forest	77%	52%	6%	2%
	GMU-3B	Mesic Forest	117%	18%	77%	9%
Siggelkow Rd	SMU-1	Oak Woodland	92%	18%	46%	4%
Taylor Rd	TMU-2	Dry-mesic Prairie	51%	39%	1%	17%
Woodland Commons	WMU-1	Oak Woodland	113%	56%	44%	12%

* Mesic forest in the southern portion of Grand View Conservancy is dominated overwhelmingly by invasive trees. The intent is for this forest to remain closed-canopy mesic forest; however, invasive trees must first be removed which will result in an open-canopy system for several decades until planted trees begin reaching maturity.

** Post-restoration shrub cover reflects conditions immediately after woody removal. Enhancement of the shrub layer is proposed for several conservancies and native shrub cover is expected to rebound accordingly.

Wildlife

Wildlife habitat improvement is also a critical design consideration. RES instituted the following design considerations in developing this CMP to improve habitat for birds, bats, mammals, herptiles, and native crayfish. For birds, the CMP seeks to increase and enhance habitat extent, connectivity, quality, structure, and buffers by reducing non-native, invasive species; installing native tree, shrub, and herbaceous species with diverse budburst phenology and fruit/seed diversity in forest and shrubland habitats; installing a diverse mix of native herbaceous species in herbaceous plant communities (e.g., prairies and emergent marshes); and retaining and creating snags. The CMP also seeks to promote prey biomass and foraging areas for birds by maximizing stream and wetland buffers and implementing Integrated Pest Management (IPM) strategies.

For bats, maintain linear habitat corridors, retain/create dead and dying trees, avoid summer tree removal, conduct prescribed burning, and retain natural vegetation along waterbodies. For non-bat mammals, restore natural vegetation along waterbodies.

For herptiles, restore upland hardwoods forest; retain and create downed woody debris; create, restore, and enhance wetlands and ponds; and reduce cover of non-native, invasive species. For native crayfish, maintain and enhance floodplain and isolated wetlands, control invasive species, establish diverse native plant communities, and reduce cover of root mat forming species (e.g., cattail and reed canary grass)

Human Considerations

The appearance of restored woodlands is often drastically different than the overstocked, shrub-invaded woodlands that many people are accustomed to encountering in urban and suburban contexts. In fact, many people may have never seen an example of a healthy remnant or restored ecosystem; and therefore, lack a frame of reference. Residents living adjacent to densely wooded areas may also perceive a reduction in privacy as a result of tree and shrub thinning. Forest restoration can therefore be regarded in a negative light. On the other hand, immense value is had by connecting with history and becoming refamiliarized with the historical ecosystems that have been nearly erased from the landscape. In this way, people can become acquainted with new ways of observing and interacting with these systems. It can be difficult to find balance between the immediate emotional response to a restored landscape with appreciation for the new and enhanced functions that system is now providing. It is critically important in these modern times for people to reconnect to landscapes of the past and participate in recreating them when the opportunities arise.



As mentioned previously, proposed enhancement of the shrub layer in restored woodlands will help to recreate the sense of privacy enjoyed by conservancy neighbors in a relatively short amount of time. Dense tree and shrub replanting of fast-growing species proposed at Grand View Conservancy are an added feature of the CMP that will help to accelerate canopy recovery in this area.

Lastly, open-canopy forests provide users with an enhanced sense of safety as they allow for a more extensive field of view and lack of cover for illegal activities. It is clear that short-term inconveniences are relatively minor tradeoffs when compared to the enhanced aesthetics, wildlife viewing, public safety, and cleaner water that will be provided by the restored conservancies.

Target Plant Communities

If hydrology restoration is pursued at any of the conservancies, those measures should be completed prior to the vegetation restoration activities such as seeding and planting.

Oak Woodland

Enhancement of existing oak woodland is proposed at Marsh Woods Conservancy (4.47 acres) and Urso Park (7.91 acres). In addition, southern dry-mesic forest is proposed to be converted to oak woodland at Siggelkow Road Park (3.82 acres) and Woodland Commons Conservancy (5.16 acres). Proposed enhancement/rehabilitation measures include the following:

- Woody invasive species should be removed in MMU-1, UMU-1, SMU-1, and WMU-1 in winter Year-1. Tree-sized common buckthorn should be removed using chainsaws and small/scattered patches of invasive shrubs such as common buckthorn, honeysuckle, multi-flora rose (*Rosa multiflora*), privet (*Ligustrum vulgare*), and autumn olive (*Elaeagnus umbellata*) should be cut with brushcutters. Dense and extensive populations of invasive shrubs, such as those at WMU-1 should be removed via forestry mower. Cut stumps should be spot-treated with herbicide immediately after removal. In areas that are forestry mowed, broadcast-spray resprouting invasive shrubs with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Cut or girdle all boxelder, white mulberry, and silver poplar (*Populus alba*) trees using chainsaws and treat stumps with herbicide in MMU-1, UMU-1, SMU-1, and WMU-1 in winter Year-1.
- More extensive tree removal is proposed for SMU-1 and WMU-1 in order to convert these areas to oak woodland. Remove or girdle all black cherry, hackberry, ash, American basswood, black walnut, and cottonwood. To help offset costs, the Village could consider conducting timber salvage operations using professional foresters in these areas as several of these tree species could provide valuable timber.
- Retain several logs from each conservancy for use as downed woody debris habitat enhancement features.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, day-lily (*Hemerocallis fulva*), Japanese hedge-parsley (*Torilis japonica*), and garlic mustard with herbicide throughout the growing season starting in early spring Year-2 once initial tree and shrub removal is completed. Opening of the canopy will likely result in large flushes of garlic mustard so timely response will be critical for early control of this species. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in MMU-1, UMU-1, SMU-1, and WMU-1 in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer



should be mowed and raked. Broadcast seed MMU-1 and UMU-1 in fall Year-2 per Table 18. Broadcast seed SMU-1 and WMU-1 in fall Year-2 per Table 19. Debris left over from forestry mowing may need to be removed prior to seeding if it will inhibit seed/soil contact. Excessive debris will need to be removed from around the base of trees to be preserved prior to burning.

- In seeded areas of SMU-1, and WMU-1 where annual weeds become prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Install native trees and shrubs shown in Table 20 at SMU-1 and WMU-1 once woody invasive species have been adequately controlled in spring/summer Year-3. Native tree and shrub planting is not proposed for oak woodland at MMU-1 or UMU-1; however, if natural recruitment of native woody species is lacking several years after initial restoration activities in these areas, the Village should consider supplemental native woody planting.
- Begin long-term management of MMU-1, UMU-1, SMU-1, and WMU-1 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 18. Oak Woodland Herbaceous Seed Mix for MMU-1 and UMU-1

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Carex molesta</i>	field oval sedge	0.53
<i>Carex normalis</i>	spreading oval sedge	0.96
<i>Carex radiata</i>	curly wood sedge	0.64
<i>Carex sprengei</i>	long-beaked sedge	0.06
<i>Elymus hystrix</i>	bottlebrush grass	6.72
<i>Elymus villosus</i>	silky wild rye	3.84
<i>Luzula multiflora</i>	common wood rush	0.32
<i>Schizachyrium scoparium</i>	little bluestem	4.80
Forbs		
<i>Agastache nepetoides</i>	yellow giant hyssop	1.54
<i>Allium cernuum</i>	nodding wild onion	0.22
<i>Aquilegia canadensis</i>	wild columbine	0.69
<i>Baptisia alba</i>	white wild indigo	1.28
<i>Bouteloua curtipendula</i>	side oats grama	4.80
<i>Eupatorium altissimum</i>	tall boneset	0.96
<i>Eutrochium purpureum</i>	purple joe pye weed	0.64
<i>Helianthus divaricatus</i>	woodland sunflower	0.32
<i>Helianthus strumosus</i>	pale-leaved sunflower	0.32
<i>Monarda fistulosa</i>	wild bergamot	0.64
<i>Polygonatum biflorum</i>	smooth Solomon's seal	0.06
<i>Rudbeckia triloba</i>	brown-eyed Susan	1.28
<i>Solidago juncea</i>	early goldenrod	0.64
<i>Symphyotrichum laeve</i>	smooth blue aster	0.12
<i>Symphyotrichum oolentangiense</i>	sky-blue aster	0.12
<i>Thalictrum thalictroides</i>	rue anemone	0.32
<i>Veronicastrum virginicum</i>	Culver's root	0.06
<i>Zizia aurea</i>	golden alexanders	0.12
Total		32.00
Cover Crop		
<i>Elymus canadensis</i>	Canada wild rye	64.00
Gr. Total		96.00



Table 19. Oak Woodland Herbaceous Seed Mix for SMU-1 and WMU-1

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Carex molesta</i>	field oval sedge	2.11
<i>Carex normalis</i>	spreading oval sedge	3.84
<i>Carex radiata</i>	curly wood sedge	2.56
<i>Carex sprengei</i>	long-beaked sedge	0.26
<i>Elymus hystrix</i>	bottlebrush grass	26.88
<i>Elymus villosus</i>	silky wild rye	15.36
<i>Luzula multiflora</i>	common wood rush	1.28
<i>Schizachyrium scoparium</i>	little bluestem	19.20
Forbs		
<i>Agastache nepetoides</i>	yellow giant hyssop	6.16
<i>Allium cernuum</i>	nodding wild onion	0.90
<i>Aquilegia canadensis</i>	wild columbine	2.78
<i>Baptisia alba</i>	white wild indigo	5.12
<i>Bouteloua curtipendula</i>	side oats grama	19.20
<i>Eupatorium altissimum</i>	tall boneset	3.84
<i>Eutrochium purpureum</i>	purple joe pye weed	2.56
<i>Helianthus divaricatus</i>	woodland sunflower	1.28
<i>Helianthus strumosus</i>	pale-leaved sunflower	1.28
<i>Monarda fistulosa</i>	wild bergamot	2.56
<i>Polygonatum biflorum</i>	smooth Solomon's seal	0.26
<i>Rudbeckia triloba</i>	brown-eyed Susan	5.12
<i>Solidago juncea</i>	early goldenrod	2.56
<i>Symphotrichum laeve</i>	smooth blue aster	0.46
<i>Symphotrichum oolentangiense</i>	sky-blue aster	0.46
<i>Thalictrum thalictroides</i>	rue anemone	1.28
<i>Veronicastrum virginicum</i>	Culver's root	0.23
<i>Zizia aurea</i>	golden alexanders	0.46
Total		128.00
Cover Crop		
<i>Elymus canadensis</i>	Canada wild rye	64.00
Gr. Total		192.00

Table 20. Oak Woodland Woody Plant Palette for SMU-1 and WMU-1

Scientific Name	Common Name	Density (trees/shrubs per acre)
<i>Carya ovata</i>	shagbark hickory	10
<i>Corylus americana</i>	hazelnut	15
<i>Hamamelis virginiana</i>	American witch-hazel	10
<i>Prunus americana</i>	wild plum	20
<i>Quercus alba</i>	white oak	10
<i>Quercus macrocarpa</i>	bur oak	5
<i>Quercus velutina</i>	black oak	10
<i>Ribes missouriense</i>	Missouri gooseberry	10
<i>Viburnum acerifolium</i>	maple-leaved viburnum	10
Total		100



Southern Dry-mesic Forest

Southern dry-mesic forest enhancement is proposed at Indian Mound Conservancy (11.87 acres). Proposed enhancement measures include the following:

- Woody invasive species should be removed in ITMU-1 (dry-mesic forest portion) in winter Year-1. If tree-sized common buckthorn is encountered, it should be removed using chainsaws. Invasive saplings, shrubs, and vines such as common buckthorn, honeysuckle, multi-flora rose, privet, Asian bittersweet (*Celastrus orbiculatus*), and Norway maple (*Acer platanoides*) should be cut with brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting invasive woody species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Cut or girdle all boxelder, white mulberry, Norway spruce, and Norway maple trees using chainsaws and treat stumps with herbicide in ITMU-1 in winter Year-1.
- Retain several logs for use as downed woody debris habitat enhancement features.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, day-lily, lily-of-the-valley (*Convallaria majalis*), reed canary grass, and garlic mustard with herbicide throughout the growing season starting in spring Year-2 once initial tree and shrub removal is completed. Opening of the canopy may result in flushes of garlic mustard so timely response will be critical for early control of this species. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in ITMU-1 in fall Year-2 to prepare the soil for native seeding. Exclude areas dominated by obovate beak grain as reseeding these areas is not necessary. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed these same areas in fall Year-1 per Table 21.
- Native tree and shrub planting is not proposed for the dry-mesic forest portion of ITMU-1; however, if natural recruitment of native woody species is lacking several years after initial restoration activities in these areas, the Village should consider supplemental native woody planting.
- Begin long-term management of ITMU-1 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 21. Southern Dry-mesic Forest Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Carex radiata</i>	curly wood sedge	0.64
<i>Carex spengelii</i>	long-beaked sedge	0.06
<i>Elymus hystrix</i>	bottlebrush grass	7.56
<i>Elymus villosus</i>	silky wild rye	4.86
<i>Luzula multiflora</i>	common wood rush	0.32
Forbs		
<i>Allium cernuum</i>	nodding wild onion	0.22
<i>Anemone quinquefolia</i>	wood anemone	0.64
<i>Aquilegia canadensis</i>	wild columbine	0.69
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	0.32
<i>Caulophyllum thalictroides</i>	blue cohosh	3.01
<i>Claytonia virginica</i>	spring beauty	0.20
<i>Desmodium glutinosum</i>	pointed tick-trefoil	0.02



Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
<i>Dicentra cucullaria</i>	dutchman's britches	0.13
<i>Dodecatheon meadia</i>	shooting star	0.38
<i>Eupatorium altissimum</i>	tall boneset	0.32
<i>Eutrochium purpureum</i>	purple joe pye weed	0.64
<i>Geranium maculatum</i>	wild geranium	0.03
<i>Helianthus divaricatus</i>	woodland sunflower	0.32
<i>Helianthus strumosus</i>	pale-leaved sunflower	0.32
<i>Hepatica nobilis</i> var. <i>acuta</i>	sharp-lobed hepatica	0.16
<i>Heuchera richardsonii</i>	prairie alum root	3.84
<i>Maianthemum racemosum</i>	false Solomon's seal	0.32
<i>Podophyllum peltatum</i>	may apple	0.03
<i>Polemonium reptans</i>	Jacob's ladder	0.13
<i>Polygonatum biflorum</i>	smooth Solomon's seal	0.06
<i>Rudbeckia triloba</i>	brown-eyed Susan	1.28
<i>Sanguinaria canadensis</i>	bloodroot	0.10
<i>Solidago flexicaulis</i>	broad-leaved goldenrod	0.32
<i>Solidago juncea</i>	early goldenrod	1.28
<i>Solidago ulmifolia</i>	elm-leaved goldenrod	0.95
<i>Symphyotrichum laeve</i>	smooth blue aster	1.98
<i>Thalictrum thalictroides</i>	rue anemone	0.32
<i>Veronicastrum virginicum</i>	Culver's root	0.06
<i>Viola pubescens</i>	downy yellow violet	0.48
Total		32.00
Cover Crop		
<i>Elymus canadensis</i>	Canada wild rye	64.00
Gr. Total		96.00

Southern Mesic Forest

Southern mesic forest enhancement is proposed at Babcock Conservancy (0.57 acres), Grand View Conservancy (7.20 acres), and Indian Mound Conservancy (1.71 acres). Proposed enhancement measures include the following:

- Woody invasive species should be removed in GMU-3A, GMU-3B, and ITMU-1 (mesic forest portion) in winter Year-1. It should be noted that no highly invasive shrubs were noted at BMU-1, however, this should be confirmed as the implementation phase approaches. If tree-sized common buckthorn is encountered at any of the conservancies, it should be removed using chainsaws. Invasive saplings, shrubs, and vines such as common buckthorn, honeysuckle, multi-flora rose, privet, and Asian bittersweet should be cut with brushcutters or chainsaws. Dense and extensive populations of invasive shrubs, such as those at GMU-3A, should be removed via forestry mower. Cut stumps should be spot-treated with herbicide immediately after removal. In areas that are forestry mowed, broadcast-spray resprouting invasive woody species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Cut or girdle all boxelder, white mulberry, and black locust (*Robinia pseudoacacia*) trees using chainsaws and treat stumps with herbicide in GMU-3A, GMU-3B, and ITMU-1 in winter Year-1.
- Retain several logs for use as downed woody debris habitat enhancement features.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, day-lily, lily-of-the-valley, reed canary grass, strawberry ground-cherry, and garlic mustard with herbicide throughout the growing season at all four conservancies starting in spring Year-2 once initial tree and shrub



removal is completed. Opening of the canopy will likely result in large flushes of garlic mustard so timely response will be critical for early control of this species. Repeat spot-spraying in Year-3 and Year-4.

- Where fuel loads are adequate, conduct prescribed burns in GMU-3A, GMU-3B, and ITMU-1 in fall Year-2 to prepare the soil for native seeding. Exclude areas at Indian Mound/Thrun Marsh Conservancies that are dominated by obovate beak grain as reseeding these areas is not necessary. Seedbed preparation is also not necessary at BMU-1. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed GMU-3B, and ITMU-1 in fall Year-2 per Table 22. Due to the open canopy conditions that will result at GMU-3A, broadcast seed this area in fall Year-2 per the Mesic Prairie Mix in Table 34. Debris left over from forestry mowing may need to be removed prior to seeding if it will inhibit seed/soil contact. Excessive debris will need to be removed from around the base of trees to be preserved prior to burning.
- Install native trees and shrubs shown in Table 23 in GMU-3A and GMU-3B once woody invasive species have been adequately controlled in spring Year-3.
- In seeded areas of GMU-1A and GMU-1B where annual weeds become prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Native tree and shrub planting is not proposed for BMU-1 or ITMU-1; however, if natural recruitment of native woody species is lacking several years after initial restoration activities, the Village should consider supplemental native woody planting.
- Begin long-term management of BMU-1, GMU-3A, GMU-3B, and ITMU-1 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 22. Southern Mesic Forest Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Carex blanda</i>	common wood sedge	0.96
<i>Carex normalis</i>	spreading oval sedge	1.83
<i>Carex radiata</i>	curly wood sedge	0.64
<i>Carex sprengei</i>	long-beaked sedge	0.06
<i>Elymus hystrix</i>	bottlebrush grass	7.42
<i>Elymus villosus</i>	silky wild rye	4.86
<i>Luzula multiflora</i>	common wood rush	0.32
<i>Muhlenbergia mexicana</i>	leafy satin grass	0.38
Forbs		
<i>Allium cernuum</i>	nodding wild onion	0.22
<i>Anemone canadensis</i>	meadow anemone	0.03
<i>Anemone virginiana</i>	Virginia anemone	0.13
<i>Aquilegia canadensis</i>	wild columbine	0.69
<i>Claytonia virginica</i>	spring beauty	0.20
<i>Dicentra cucullaria</i>	dutchman's britches	0.13
<i>Dodecatheon meadia</i>	shooting star	0.38
<i>Eupatorium altissimum</i>	tall boneset	0.96
<i>Eutrochium purpureum</i>	purple joe pye weed	0.64
<i>Geranium maculatum</i>	wild geranium	0.03



Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
<i>Helianthus strumosus</i>	pale-leaved sunflower	0.03
<i>Heuchera richardsonii</i>	prairie alum root	3.84
<i>Phlox divaricata</i>	blue phlox	1.56
<i>Podophyllum peltatum</i>	may apple	0.03
<i>Polemonium reptans</i>	Jacob's ladder	0.13
<i>Polygonatum biflorum</i>	smooth Solomon's seal	0.06
<i>Rudbeckia triloba</i>	brown-eyed Susan	1.28
<i>Sanguinaria canadensis</i>	bloodroot	0.06
<i>Solidago flexicaulis</i>	broad-leaved goldenrod	0.32
<i>Solidago juncea</i>	early goldenrod	1.28
<i>Solidago ulmifolia</i>	elm-leaved goldenrod	0.95
<i>Symphotrichum laeve</i>	smooth blue aster	1.98
<i>Thalictrum dasycarpum</i>	purple meadow rue	0.19
<i>Thalictrum thalictroides</i>	rue anemone	0.32
<i>Veronicastrum virginicum</i>	Culver's root	0.06
Total		32.00
Cover Crop		
<i>Elymus canadensis</i>	Canada wild rye	64.00
Gr. Total		96.00

Table 23. Southern Mesic Forest Woody Plant Palette for GMU-3A and GMU-3B

Scientific Name	Common Name	Density (trees/shrubs per acre)
<i>Acer saccharum</i>	sugar maple	20
<i>Carpinus caroliniana</i>	muscle-wood	20
<i>Carya cordiformis</i>	bitternut hickory	20
<i>Corylus americana</i>	hazelnut	20
<i>Hamamelis virginiana</i>	American witch-hazel	20
<i>Prunus americana</i>	wild plum	25
<i>Quercus alba</i>	white oak	15
<i>Quercus macrocarpa</i>	bur oak	15
<i>Quercus rubra</i>	red oak	15
<i>Ribes americanum</i>	American black currant	20
<i>Tilia americana</i>	American basswood	20
<i>Sambucus canadensis</i>	elderberry	20
<i>Ulmus americana</i>	American elm	20
Total		250

Southern Hardwood Swamp

Southern hardwood swamp enhancement is proposed at Babcock Conservancy (1.95 acres), Grand View Conservancy (4.76 acres), Indian Mound/Thrun Marsh Conservancies (4.34 acres), Marsh Woods Conservancy (0.95 acres), and Urso Park (7.33 acres). Proposed enhancement measures include the following:

- Woody invasive species should be removed in BMU-2 (hardwood swamp portion), GMU-1A-HS, GMU-1B (hardwood swamp portion), ITMU (hardwood swamp portion), MMU-3 (hardwood swamp portion), and UMU-1-HS in winter Year-1. If tree-sized common buckthorn is encountered, it should be removed using chainsaws. Invasive saplings, shrubs, and vines such as common buckthorn, honeysuckle, multi-flora rose, privet, and Asian bittersweet should be cut with brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting woody invasive species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.



- Herbicides used in southern hardwood swamp areas should be those approved for use in aquatic environments.
- Cut or girdle all boxelder, white mulberry, and black locust trees using chainsaws and treat stumps with herbicide in BMU-2, GMU-1A-HS, GMU-1B, ITMU, MMU-3, and UMU-1-HS in winter Year-1.
- Retain several logs for use as downed woody debris habitat enhancement features.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, day-lily, lily-of-the-valley, reed canary grass, Japanese hedge-parsley, and wild parsnip (*Pastinaca sativa*) with herbicide throughout the growing season starting in spring Year-2 once initial tree and shrub removal is completed. Large populations of reed canary grass may need to be broadcast-sprayed. Repeat spot-spraying in Year-3 and Year-4.
- Install native trees and shrubs shown in Table 24 in the southern hardwood swamp portions of BMU-2, GMU-1A-HS, GMU-1B, ITMU, MMU-3, and UMU-1-HS once woody invasive species have been adequately controlled in spring/summer Year-3. Broadcast seed these same areas after woody plant installation in fall Year-3 per Table 25. The herbaceous layer may need to be mowed and raked prior to seeding to allow for good seed-soil contact.
- Begin long-term management of BMU-2, GMU-1A-HS, GMU-1B, ITMU, MMU-3, and UMU-1-HS in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 24. Southern Hardwood Swamp Woody Plant Palette

Scientific Name	Common Name	Density (trees/shrubs per acre)
<i>Acer rubrum</i>	red maple	5
<i>Celtis occidentalis</i>	hackberry	10
<i>Cornus amomum</i>	silky dogwood	5
<i>Cornus sericea</i>	red osier dogwood	10
<i>Ilex verticillata</i>	common winterberry	10
<i>Physocarpus opulifolius</i>	ninebark	10
<i>Quercus bicolor</i>	swamp white oak	15
<i>Quercus macrocarpa</i>	bur oak	10
<i>Sambucus canadensis</i>	elderberry	10
<i>Viburnum lentago</i>	nannyberry	15
Total		100

Table 25. Southern Hardwood Swamp Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Calamagrostis canadensis</i>	blue-joint grass	3.00
<i>Carex crinita</i>	fringed sedge	1.00
<i>Carex gracillima</i>	graceful sedge	0.50
<i>Carex grayi</i>	Gray's sedge	0.50
<i>Carex lupulina</i>	hop sedge	0.50
<i>Carex stipata</i>	awl fruited sedge	4.00
<i>Cinna arundinacea</i>	wood reed grass	0.50
<i>Glyceria canadensis</i>	rattlesnake manna grass	1.00
<i>Glyceria striata</i>	fowl manna grass	0.25
<i>Muhlenbergia mexicana</i>	leafy satin grass	0.05
Forbs		
<i>Anemone canadensis</i>	meadow anemone	0.50
<i>Boltonia asteroides</i>	false aster	1.00
<i>Campanulastrum americanum</i>	tall bellflower	0.50



Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
<i>Clematis virginiana</i>	virgin's bower	0.05
<i>Eutrochium purpureum</i>	purple joe pye weed	1.00
<i>Hypericum ascyron</i>	great St. Johns wort	1.00
<i>Lobelia cardinalis</i>	cardinal flower	0.05
<i>Lysimachia ciliata</i>	fringed loosestrife	0.50
<i>Rosa setigera</i>	savanna rose	0.50
<i>Rudbeckia laciniata</i>	tall coneflower	3.00
<i>Rudbeckia subtomentosa</i>	sweet black-eyed Susan	0.50
<i>Sphenopholis obtusata</i>	prairie wedge grass	0.05
<i>Symphyotrichum lateriflorum</i>	side-flowering aster	0.10
<i>Verbesina alternifolia</i>	wingstem	0.05
<i>Zizia aurea</i>	golden alexanders	0.25
Total		20.35
Cover Crop		
<i>Elymus virginicus</i>	Virginia wild rye	64.00
Gr. Total		84.35

Floodplain Forest

Floodplain forest enhancement is proposed at Yahara River Conservancy (0.69 acres). Proposed enhancement measures include the following:

- Woody invasive species should be removed in YMU-1 (floodplain forest portion) in winter Year-1. Woody invasive species such as common buckthorn and honeysuckle should be cut with brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting woody invasive species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Herbicides used in YMU-1 should be those approved for use in aquatic environments.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle, reed canary grass, and wild parsnip with herbicide throughout the growing season starting in spring Year-2 once initial tree and shrub removal is completed. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads and moisture levels are adequate, conduct a prescribed burn in YMU-1 in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed these same areas in fall Year-2 per Table 26. Excessive debris will need to be removed from around the base of trees to be preserved prior to burning.
- Begin long-term management of YMU-1 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 26. Floodplain Forest Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Calamagrostis canadensis</i>	blue-joint grass	1.28
<i>Carex crinita</i>	fringed sedge	1.28
<i>Carex gracillima</i>	graceful sedge	0.96
<i>Carex grayi</i>	Gray's sedge	3.20
<i>Carex lacustris</i>	lake sedge	1.28
<i>Carex lupulina</i>	hop sedge	3.20
<i>Carex stipata</i>	awl fruited sedge	1.28
<i>Carex typhina</i>	cattail sedge	1.28



Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
<i>Cinna arundinacea</i>	wood reed grass	2.24
<i>Glyceria striata</i>	fowl manna grass	1.28
<i>Leersia oryzoides</i>	rice-cut grass	1.28
<i>Muhlenbergia mexicana</i>	leafy satin grass	1.92
<i>Sphenopholis obtusata</i>	prairie wedge grass	1.28
Forbs		
<i>Acorus americanus</i>	American sweet flag	0.64
<i>Anemone canadensis</i>	meadow anemone	0.32
<i>Boltonia asteroides</i>	false aster	1.92
<i>Campanulastrum americanum</i>	tall bellflower	1.92
<i>Clematis virginiana</i>	virgin's bower	0.32
<i>Eutrochium purpureum</i>	purple joe pye weed	1.28
<i>Helenium autumnale</i>	sneezeweed	0.32
<i>Lobelia cardinalis</i>	cardinal flower	0.64
<i>Lysimachia ciliata</i>	fringed loosestrife	0.32
<i>Rosa setigera</i>	savanna rose	0.32
<i>Rudbeckia laciniata</i>	tall coneflower	0.64
<i>Rudbeckia subtomentosa</i>	sweet black-eyed Susan	0.32
<i>Symphotrichum lateriflorum</i>	side-flowering aster	0.64
<i>Verbesina alternifolia</i>	wingstem	0.32
<i>Zizia aurea</i>	golden alexanders	0.32
Total		32.00
Cover Crop		
<i>Elymus virginicus</i>	Virginia wild rye	64.00
Gr. Total		96.00

Shrub-carr

Shrub-carr enhancement is proposed at Marsh Woods Conservancy (1.14 acres) and Urso Park (3.82 acres). In addition, 1.79 acres of conifer plantation and old apple orchards at Urso Park are proposed to be converted to shrub-carr. Proposed enhancement/rehabilitation measures include the following:

- Woody invasive species should be removed in MMU-3 (shrub-carr portion), UMU-1-SCE, UMU-1-SCN, and UMU-3 in winter Year-1. Woody invasive species such as common buckthorn, multi-flora rose, and honeysuckle should be cut with brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting woody invasive species with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Herbicides used in shrub-carr wetland areas should be those approved for use in aquatic environments.
- Remove all apple and red pine trees within UMU-3 in winter Year-1. Apple stumps will need to be treated with herbicide. Retain Norway spruce growing along Hidden Farm Road. To help offset costs, the Village could consider conducting timber salvage operations using professional foresters in this area as the red pine may have commercial value.
- Spot-spray non-native, invasive, herbaceous species such as reed canary grass, wild parsnip, and Japanese hedge-parsley with herbicide throughout the growing season starting in spring Year-2 once initial tree and shrub removal is completed. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in MMU-3, UMU-1-SCE, and UMU-1-SCN in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer



in these areas may need to be mowed and raked. Broadcast seed these same areas in fall Year-2 per Table 27.

- Install native shrubs shown in Table 28 in UMU-3 in spring Year-3.
- Begin long-term management of MMU-3, UMU-1-SCE, UMU-1-SCN, and UMU-3 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 27. Shrub-carr Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Calamagrostis canadensis</i>	blue-joint grass	6.40
<i>Carex crinita</i>	fringed sedge	3.20
<i>Carex gracillima</i>	graceful sedge	1.60
<i>Carex grayi</i>	Gray's sedge	3.20
<i>Carex lupulina</i>	hop sedge	1.60
<i>Carex sprengelii</i>	long-beaked sedge	1.60
<i>Carex stipata</i>	awl fruited sedge	1.60
Forbs		
<i>Angelica atropurpurea</i>	great angelica	4.80
<i>Eutrochium maculatum</i>	spotted Joe-pye weed	3.20
<i>Lycopus americanus</i>	water horehound	1.60
<i>Rosa setigera</i>	savanna rose	1.60
<i>Thalictrum dasycarpum</i>	purple meadow rue	1.60
Total		32.00
Cover Crop		
<i>Elymus virginicus</i>	Virginia wild rye	64.00
Gr. Total		96.00

Table 28. Shrub-carr Woody Plant Palette

Scientific Name	Common Name	Density (shrubs per acre)
<i>Aronia melanocarpa</i>	black chokeberry	20
<i>Cornus amomum</i>	silky dogwood	10
<i>Cornus sericea</i>	red osier dogwood	10
<i>Physocarpus opulifolius</i>	ninebark	20
<i>Salix bebbiana</i>	beaked willow	25
<i>Sambucus canadensis</i>	elderberry	25
<i>Spiraea alba</i>	white meadow-sweet	20
<i>Viburnum lentago</i>	nannyberry	20
Total		150

Emergent Marsh

Emergent marsh enhancement is proposed at Babcock Conservancy (4.40 acres), Grand View Conservancy (7.55 acres), Indian Mound/Thrun Marsh Conservancies (4.13 acres), Marsh Woods Conservancy (6.52 acres), Urso Park (5.36 acres), and Yahara River Conservancy (0.36 acres). The emergent marshes on Village property are all dominated by non-native cattail. Broad-scale and aggressive cattail control efforts are only recommended in marshes that are isolated from Lake Waubesa, the Yahara River, and Mud Lake. Emergent marshes that are adjacent to these waters will constantly be subject to propagule pressure from offsite marshes so cattail control in these areas is unlikely to be sustainable in the long-term. Proposed enhancement measures include the following:

- Treat invasive species such as common reed (*Phragmites australis* ssp. *australis*), reed canary grass,



and purple loosestrife in the emergent zones of BMU-2, MMU-3, and YMU-with an herbicide approved for use in aquatic environments in spring/summer Year-2. Repeat this process in Year-3 and Year-4.

- Broadcast-spray narrow-leaved cattail, reed canary grass, purple loosestrife and other invasive species with an herbicide approved for use in aquatic environments in the emergent zones of GMU-1A-EM, GMU-1B, and ITMU-2 in spring/summer Year-2. Spot-treat narrow-leaved cattail in UMU-1-EM in spring/summer Year-2. Conduct follow-up spot treatments in summer Year-2 and continue spot treatments in GMU-1A-EM, GMU-1B, ITMU-2, and UMU-1-EM in Year-3 and Year-4.
- Conduct prescribed burns in emergent portions of GMU-1A-EM, GMU-1B, and ITMU-2, and UMU-1-EM fall Year-2 to prepare the soil for native seeding. Broadcast seed these areas after burning in fall Year-2 per Table 29.
- Install emergent plant plugs per Table 17 in spring Year-3 within the emergent zones of GMU-1A-EM, GMU-1B, and ITMU-2, and UMU-1-EM.
- Begin long-term management of BMU-2, GMU-1A-EM, GMU-1B, ITMU-2, MMU-3, UMU-1-EM, and YMU-1 in winter Year-4. This would include annual spot-spraying of invasive species and supplemental native seed/plant installation as needed.

Table 29. Emergent Marsh Plant Palette

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)	Planting Density (plants per acre)
Graminoids			
<i>Carex lacustris</i>	lake sedge	0.00	100
<i>Carex comosa</i>	longhair sedge	2.40	
<i>Carex stipata</i>	owl-fruited sedge	0.96	
<i>Carex vulpinoidea</i>	fox sedge	5.28	
<i>Juncus effusus</i>	soft rush	0.96	
<i>Leersia oryzoides</i>	rice-cut grass	2.40	
<i>Scirpus cyperinus</i>	woolgrass	4.80	100
<i>Scirpus fluviatilis</i>	river bulrush	0.00	150
<i>Schoenoplectus tabernaemontani</i>	soft-stem bulrush	0.96	100
Forbs			
<i>Alisma subcordatum</i>	water plantain	7.68	
<i>Asclepias incarnata</i>	marsh milkweed	1.44	
<i>Iris virginica</i>	Virginia iris	9.60	100
<i>Pontederia cordata</i>	pickerel weed	0.00	100
<i>Rumex orbiculatus</i>	water dock	1.44	
<i>Sagittaria latifolia</i>	arrowhead	2.40	
<i>Sparganium eurycarpum</i>	giant bur reed	7.68	150
Total		48.00	800



Pond Shoreline

Shoreline enhancement is proposed for the areas surrounding the ponds at Grand View Conservancy (0.68 acres) and Urso Park (0.09 acres). Pond shoreline will be enhanced as follows:

- After initial invasive species control efforts are completed per recommendations for the emergent marsh portion of GMU-1B and the shrub-carr portion of UMU-1 above, install emergent plant plugs per Table 30 in spring Year-3 within the shoreline enhancement zones of Grandview Commons and Urso Park.
- Spot-spray non-native, invasive, herbaceous species such as red canary grass with herbicide approved for use in aquatic environments throughout the growing season starting in summer Year-3. Repeat spot-spraying in Year-4.
- Begin long-term management of the shoreline enhancement zones in winter Year-4. This would include annual spot-spraying of invasive species and supplemental native seed/plant installation as needed.

Table 30. Pond Shoreline Plant Palette

Scientific Name	Common Name	Planting Density (plants per acre)
Graminoids		
<i>Carex crinita</i>	fringed sedge	150
<i>Carex lacustris</i>	lake sedge	150
<i>Juncus effusus</i>	soft rush	200
<i>Leersia oryzoides</i>	rice-cut grass	300
<i>Scirpus cyperinus</i>	woolgrass	200
<i>Scirpus fluviatilis</i>	river bulrush	300
<i>Schoenoplectus tabernaemontani</i>	soft-stem bulrush	200
Forbs		
<i>Alisma subcordatum</i>	water plantain	200
<i>Asclepias incarnata</i>	marsh milkweed	200
<i>Iris virginica</i>	Virginia iris	200
<i>Pontederia cordata</i>	pickerel weed	200
<i>Rumex orbiculatus</i>	water dock	200
<i>Sagittaria latifolia</i>	arrowhead	200
<i>Sparganium eurycarpum</i>	giant bur reed	300
Total		3,000

Southern Sedge Meadow

Southern sedge meadow enhancement is proposed at Marsh Woods Conservancy (8.98 acres) and Urso Park (3.40 acres). Minimal work is proposed for the existing high-quality sedge meadow at Marsh Woods Conservancy and more aggressive efforts will be required to convert the degraded wet meadows at Marsh Woods Conservancy and Urso Park to sedge meadow. Proposed enhancement measures include the following:

- Any woody invasive species in sedge meadow enhancement areas should be removed in winter Year-1 using brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal.
- Broadcast spray reed canary grass in spring and late-summer Year-2 using herbicide approved for use in aquatic settings in the wet meadow portions of Urso Park and Marsh Woods Conservancy.
- Spot-spray non-native, invasive, herbaceous species such as Canada thistle and wild parsnip with



herbicide approved for use in aquatic environments throughout the growing season starting in spring Year-2. Repeat spot-spraying in Year-3 and Year-4.

- Where fuel loads are adequate, conduct prescribed burns in MMU-3, UMU-1-WMN, and UMU-1-WMS in fall Year-2 to prepare the soil for native seeding. Exclude the existing sedge meadow area at Marsh Woods Conservancy which is already dominated by native sedges. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed MMU-3, UMU-1-WMN, and UMU-1-WMS, excluding the existing sedge meadow in MMU-3, in fall Year-2 per Table 31. Install hairy fruit sedge (*Carex trichocarpa*) and tussock sedge (*Carex stricta*) plugs in clusters throughout MMU-3, UMU-1-WMN, and UMU-1-WMS, excluding the existing sedge meadow in MMU-3, in spring Year-3 per Table 31.
- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Begin long-term management of MMU-3, UMU-1-WMN, and UMU-1-WMS in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 31. Southern Sedge Meadow Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)	Planting Density (plants per acre)
Graminoids			
<i>Calamagrostis canadensis</i>	blue-joint grass	0.50	
<i>Carex bebbii</i>	Bebb's sedge	3.00	
<i>Carex buxbaumii</i>	Buxbaum's sedge	1.00	
<i>Carex comosa</i>	longhair sedge	2.00	
<i>Carex hystericina</i>	bottlebrush sedge	4.00	
<i>Carex pellita</i>	broad-leaved woolly sedge	1.00	
<i>Carex scoparia</i>	broom sedge	3.00	
<i>Carex stipata</i>	owl-fruited sedge	1.00	
<i>Carex stricta</i>	tussock sedge	0.00	50
<i>Carex trichocarpa</i>	hairy fruit sedge	0.00	50
<i>Carex vulpinoidea</i>	fox sedge	4.00	
<i>Glyceria striata</i>	fowl manna grass	0.05	
<i>Scirpus atrovirens</i>	dark green bulrush	0.50	
Forbs			
<i>Acorus americanus</i>	American sweet flag	1.00	
<i>Allium cernuum</i>	nodding wild onion	0.25	
<i>Anemone canadensis</i>	meadow anemone	0.25	
<i>Angelica atropurpurea</i>	great angelica	1.00	
<i>Arnoglossum plantagineum</i>	prairie Indian plantain	1.00	
<i>Asclepias incarnata</i>	swamp milkweed	1.00	
<i>Chelone glabra</i>	turtlehead	0.50	
<i>Cicuta maculata</i>	water hemlock	0.50	
<i>Doellingeria umbellata</i>	flat-topped aster	0.50	
<i>Eupatorium perfoliatum</i>	common boneset	0.50	
<i>Euthamia graminifolia</i>	grass-leaved goldenrod	0.25	
<i>Eutrochium maculatum</i>	Joe pye-weed	0.25	
<i>Gentiana andrewsii</i>	bottle gentian	0.25	
<i>Helianthus grosseserratus</i>	sawtooth sunflower	0.50	
<i>Hypericum ascyron</i>	great St. John's wort	0.50	
<i>Iris virginica</i>	blue flag iris	0.25	
<i>Liatis pycnostachya</i>	prairie blazing star	0.50	



Scientific Name	Common Name	Seeding Rate (oz PLS/ac)	Planting Density (plants per acre)
<i>Lobelia siphilitica</i>	great blue lobelia	0.25	
<i>Lycopus americanus</i>	American water horehound	0.50	
<i>Lythrum alatum</i>	winged loosestrife	0.25	
<i>Mentha arvensis</i>	wild mint	0.50	
<i>Physostegia virginiana</i>	prairie obedient plant	0.25	
<i>Pycnanthemum virginianum</i>	Virginia mountain mint	0.25	
<i>Senna hebecarpa</i>	wild senna	0.50	
<i>Silphium perfoliatum</i>	cup-plant	0.50	
<i>Solidago gigantea</i>	late goldenrod	0.25	
<i>Solidago ohioensis</i>	Ohio goldenrod	0.25	
<i>Solidago riddellii</i>	Riddell's goldenrod	0.25	
<i>Spartina pectinata</i>	prairie cord grass	1.00	
<i>Symphyotrichum novae-angliae</i>	New England aster	0.50	
<i>Symphyotrichum puniceum</i>	marsh aster	0.25	
<i>Thalictrum dasycarpum</i>	purple meadow rue	0.50	
<i>Verbena hastata</i>	blue vervain	0.25	
<i>Vernonia fasciculata</i>	common ironweed	0.25	
<i>Veronicastrum virginicum</i>	Culver's root	0.05	
<i>Zizia aurea</i>	golden alexanders	0.50	
Total		36.10	100
Cover Crop			
<i>Elymus virginicus</i>	Virginia wild rye	64.00	
Gr. Total		100.10	100

Wet Prairie

Wet prairie enhancement is proposed at Grand View Conservancy (3.86 acres). This work will involve converting existing wet meadow dominated by reed canary grass to native wet prairie. Proposed enhancement measures include the following:

- Any woody invasive species present in the wet meadow portion of GMU-1A should be removed in winter Year-1 using brushcutters or chainsaws. Cut stumps should be spot-treated with herbicide immediately after removal.
- Broadcast spray reed canary grass in spring and late-summer Year-2 using herbicide approved for use in aquatic settings in the wet meadow portion of GMU-1A.
- Where fuel loads are adequate, conduct prescribed burns in the wet meadow portion of GMU-1A in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed this area in fall Year-2 per Table 32.
- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Spot-spray non-native, invasive, herbaceous species such as wild parsnip with herbicide approved for use in aquatic environments throughout the growing season starting in spring Year-3. Repeat spot-spraying in Year-4.
- Begin long-term management of the wet meadow portion of GMU-1A in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.



Table 32. Wet Prairie Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Calamagrostis canadensis</i>	Canada blue-joint grass	4.11
<i>Carex annectens</i>	yellow-fruited sedge	2.00
<i>Carex bebbii</i>	Bebb's sedge	2.23
<i>Carex scoparia</i>	pointed broom sedge	2.23
<i>Carex stipata</i>	awl fruited sedge	2.51
<i>Carex vulpinoidea</i>	fox sedge	2.51
<i>Scirpus atrovirens</i>	dark green bulrush	1.00
<i>Spartina pectinata</i>	prairie cordgrass	1.95
Forbs		
<i>Asclepias incarnata</i>	marsh milkweed	1.00
<i>Angelica atropurpurea</i>	great angelica	1.00
<i>Bidens cernua</i>	nodding bur marigold	2.00
<i>Boltonia asteroides</i>	false aster	1.12
<i>Eupatorium perfoliatum</i>	boneset	0.25
<i>Euthamia graminifolia</i>	grass-leaved goldenrod	0.05
<i>Eutrochium maculatum</i>	Joe pye-weed	0.25
<i>Helianthus grosseserratus</i>	sawtooth sunflower	0.50
<i>Iris virginica</i>	Virginia iris	0.50
<i>Liatris spicata</i>	marsh blazing star	0.25
<i>Lythrum alatum</i>	winged loosestrife	0.05
<i>Pycnanthemum virginianum</i>	Virginia mountain mint	0.05
<i>Senna hebecarpa</i>	wild senna	0.50
<i>Silphium perfoliatum</i>	cup plant	0.50
<i>Solidago riddellii</i>	Riddell's goldenrod	0.05
<i>Symphotrichum lanceolatum</i>	panicle aster	0.05
<i>Symphotrichum novae-angliae</i>	New England aster	0.25
<i>Symphotrichum puniceum</i>	red-stem aster	0.05
<i>Verbesina alternifolia</i>	wingstem	0.05
<i>Vernonia fasciculata</i>	common ironweed	0.25
<i>Veronicastrum virginicum</i>	Culver's root	0.13
<i>Zizia aurea</i>	golden alexanders	0.50
Total		27.90
Cover Crop		
<i>Elymus virginicus</i>	Virginia wild rye	64.00
Gr. Total		91.90

Wet-mesic Prairie

Wet-mesic prairie enhancement is proposed at Grand View Conservancy (1.89 acres). Proposed enhancement measures include the following:

- Woody invasive species dominating the wet-mesic portion of GMU-1A are found mostly in the herbaceous layer due to recent mowing. Resprouting woody invasive species should be broadcast or spot-sprayed with herbicide approved for use in aquatic environments in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- Spot-spray non-native, invasive, herbaceous species such as wild parsnip with herbicide approved for use in aquatic environments throughout the growing season starting in spring Year-2. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in the wet meadow portion of GMU-1A



in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed this area in fall Year-2 per Table 33.

- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Begin long-term management of the wet-mesic prairie portion of GMU-1A in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 33. Wet-mesic Prairie Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Andropogon gerardii</i>	big bluestem	7.60
<i>Calamagrostis canadensis</i>	Canada blue-joint grass	1.90
<i>Carex annectens</i>	yellow-fruited sedge	4.54
<i>Carex brevior</i>	short beak sedge	3.33
<i>Carex molesta</i>	field oval sedge	4.75
<i>Carex normalis</i>	spreading oval sedge	4.75
<i>Carex scoparia</i>	pointed broom sedge	4.75
<i>Carex vulpinoidea</i>	fox sedge	4.56
<i>Panicum virgatum</i>	switch grass	8.55
<i>Scirpus atrovirens</i>	dark green bulrush	3.33
<i>Spartina pectinata</i>	prairie cordgrass	2.85
Forbs		
<i>Allium cernuum</i>	nodding wild onion	2.76
<i>Anemone canadensis</i>	meadow anemone	2.34
<i>Arnoglossum plantagineum</i>	prairie Indian plantain	2.63
<i>Asclepias incarnata</i>	marsh milkweed	3.42
<i>Baptisia alba</i>	white wild indigo	0.95
<i>Bidens frondosa</i>	common beggar-ticks	1.05
<i>Boltonia asteroides</i>	false aster	0.95
<i>Bromus kalmii</i>	Arctic brome	5.51
<i>Desmodium canadense</i>	Canada tick trefoil	2.76
<i>Eryngium yuccifolium</i>	rattlesnake master	0.95
<i>Eupatorium perfoliatum</i>	boneset	0.95
<i>Eutrochium maculatum</i>	Joe pye-weed	0.95
<i>Helenium autumnale</i>	sneezeweed	0.83
<i>Helianthus grosseserratus</i>	sawtooth sunflower	0.76
<i>Heliopsis helianthoides</i>	early sunflower	0.95
<i>Hypericum ascyron</i>	great St. John's wort	0.95
<i>Lathyrus palustris</i>	marsh vetch	0.10
<i>Liatris spicata</i>	marsh blazing star	1.62
<i>Lycopus americanus</i>	water horehound	0.48
<i>Lythrum alatum</i>	winged loosestrife	0.05
<i>Pycnanthemum virginianum</i>	Virginia mountain mint	0.95
<i>Senna hebecarpa</i>	wild senna	1.71
<i>Silphium laciniatum</i>	compass plant	0.95
<i>Silphium perfoliatum</i>	cup plant	0.29
<i>Silphium terebinthinaceum</i>	prairie dock	0.95
<i>Solidago riddellii</i>	Riddell's goldenrod	0.95
<i>Symphotrichum lanceolatum</i>	panicle aster	0.29
<i>Symphotrichum novae-angliae</i>	New England aster	1.43
<i>Symphotrichum puniceum</i>	red-stem aster	0.29
<i>Thalictrum dasycarpum</i>	purple meadow rue	1.33
<i>Tradescantia ohiensis</i>	spiderwort	0.23



Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
<i>Verbena hastata</i>	blue vervain	1.09
<i>Vernonia fasciculata</i>	common ironweed	0.86
<i>Veronicastrum virginicum</i>	Culver's root	0.17
<i>Zizia aurea</i>	golden alexanders	1.71
Total		95.00
Cover Crop		
<i>Elymus virginicus</i>	Virginia wild rye	64.00
Gr. Total		159.00

Mesic Prairie

Mesic prairie enhancement is proposed at Grand View (5.66 acres) and Marsh Woods Conservancies (6.20 acres). The existing mesic prairie communities in GMU-2A and MMU-2 will require less work than the surrogate grassland and invaded mesic prairie communities in GMU-2B and MMU-2. Proposed enhancement measures are as follows:

- Woody invasive species should be removed in GMU-2A, GMU-2B, and MMU-2 in winter Year-1. Small/scattered patches of invasive shrubs such as common buckthorn, honeysuckle, multi-flora rose (*Rosa multiflora*), and autumn olive (*Elaeagnus umbellata*) should be cut with brushcutters or chainsaws. Dense and extensive populations of invasive shrubs, such as those in GMU-2B should be removed via forestry mower. Retain patches of gray dogwood in GMU-2B for bird habitat. Cut stumps should be spot-treated with herbicide immediately after removal. In areas that are forestry mowed, broadcast-spray resprouting invasive shrubs with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive species in Year-3 and Year-4.
- In MMU-2, broadcast-spray the initial flush of cool-season grasses in early spring Year-2 with a grass-specific herbicide prior to the first flush of warm season vegetation.
- Spot-spray non-native, invasive, herbaceous species such as reed canary grass and wild parsnip with herbicide throughout the growing season starting in spring Year-2 in GMU-2A, GMU-2B, and MMU-2. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in GMU-2A, GMU-2B, and MMU-2 in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer may need to be mowed and raked. Broadcast seed these areas in fall Year-2 per Table 34. Debris left over from forestry mowing in GMU-2B may need to be removed prior to seeding if it will inhibit seed/soil contact.
- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Begin long-term management of GMU-2A, GMU-2B, and MMU-2 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.



Table 34. Mesic Prairie Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Andropogon gerardii</i>	big bluestem	7.86
<i>Bouteloua curtipendula</i>	side oats grama	31.84
<i>Carex bicknellii</i>	Bicknell's sedge	2.07
<i>Carex molesta</i>	field oval sedge	2.07
<i>Panicum virgatum</i>	switch grass	8.00
<i>Schizachyrium scoparium</i>	little bluestem	31.84
<i>Sorghastrum nutans</i>	Indian grass	8.00
Forbs		
<i>Allium cernuum</i>	nodding wild onion	4.00
<i>Asclepias syriaca</i>	common milkweed	4.00
<i>Asclepias tuberosa</i>	butterfly weed	4.00
<i>Chamaecrista fasciculata</i>	partridge pea	8.00
<i>Coreopsis palmata</i>	prairie coreopsis	0.50
<i>Dalea purpurea</i>	purple prairie clover	4.00
<i>Desmodium canadense</i>	Canada tick trefoil	4.00
<i>Echinacea pallida</i>	pale purple coneflower	3.01
<i>Hypericum ascyron</i>	great St. John's wort	0.10
<i>Monarda fistulosa</i>	wild bergamot	1.01
<i>Pycnanthemum tenuifolium</i>	slender mountain mint	0.50
<i>Ratibida pinnata</i>	yellow coneflower	4.00
<i>Rudbeckia hirta</i>	black-eyed Susan	4.00
<i>Rudbeckia subtomentosa</i>	sweet black-eyed Susan	0.50
<i>Silphium laciniatum</i>	compass plant	0.50
<i>Silphium terebinthinaceum</i>	prairie dock	0.50
<i>Solidago juncea</i>	early goldenrod	0.25
<i>Solidago rigidum</i>	stiff goldenrod	0.25
<i>Solidago speciosa</i>	showy goldenrod	0.50
<i>Symphyotrichum laeve</i>	smooth blue aster	0.50
<i>Symphyotrichum novae-angliae</i>	New England aster	0.50
<i>Symphyotrichum oolentangiense</i>	sky-blue aster	0.50
<i>Tradescantia ohimensis</i>	spiderwort	0.33
<i>Verbena stricta</i>	hoary vervain	0.25
<i>Veronicastrum virginicum</i>	Culver's root	0.05
<i>Zizia aurea</i>	golden alexanders	0.50
Total		137.90
Cover Crop		
<i>Elymus canadensis</i>	Canada wild rye	64.00
Gr. Total		201.90

Dry-mesic Prairie

Conversion of 1.20 acres of woody-invaded surrogate grassland to dry-mesic prairie at Taylor Road Conservancy is proposed in TMU-2. Proposed restoration measures are as follows:

- Woody invasive shrubs such as honeysuckle, common buckthorn, and smooth sumac should be removed using brushcutters or chainsaws in TMU-2 in winter Year-1. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting invasive shrubs with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive shrubs in Year-3 and Year-4.
- Extensive tree removal is proposed for TMU-2 in order to convert these areas to dry-mesic prairie. Remove all black walnut, white mulberry, white ash (*Fraxinus americana*), and cottonwood trees



using chainsaws and treat stumps with herbicide in winter Year-1. Spot-treat resprouting trees with herbicide in Year-2 and Year-3. To help offset tree removal costs, the Village could consider conducting timber salvage operations using professional foresters as some of these trees could have commercial value. Due to the steep slopes in these areas, it is not recommended to create or maintain any snags.

- Spot-spray the initial flush of cool-season grasses in early spring Year-2 with a grass-specific herbicide prior to the first flush of warm season vegetation.
- Spot-spray non-native, invasive, herbaceous species such as reed canary grass, crown vetch, and spotted knapweed (*Centaurea stoebe*), with herbicide throughout the growing season starting in spring Year-2 in TMU-2. Repeat spot-spraying in Year-3 and Year-4.
- Where fuel loads are adequate, conduct prescribed burns in TMU-2 in fall Year-2 to prepare the soil for native seeding. If burning is not feasible, the herbaceous layer should be mowed, raked, and removed. Broadcast seed these areas in fall Year-2 per Table 35.
- In seeded areas where annual weeds are prevalent, vegetation should be mowed to a height of 12 inches once it reaches approximately 24 inches in height in May or June Year-3. Two additional mowing events should occur in mid- and late-summer. Repeat this process in Year-4.
- Begin long-term management of TMU-2 in winter Year-4. This should include annual spot-spraying of invasive species as needed, periodic prescribed burning, and supplemental native seed/plant installation as needed.

Table 35. Dry-mesic Prairie Herbaceous Seed Mix

Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
Graminoids		
<i>Andropogon gerardii</i>	big bluestem	7.72
<i>Bouteloua curtipendula</i>	side oats grama	30.89
<i>Carex bicknellii</i>	Bicknell's sedge	2.07
<i>Panicum virgatum</i>	switch grass	5.52
<i>Schizachyrium scoparium</i>	little bluestem	30.89
<i>Sorghastrum nutans</i>	Indian grass	8.00
<i>Sporobolus heterolepis</i>	prairie dropseed	0.80
Forbs		
<i>Allium cernuum</i>	nodding wild onion	3.81
<i>Asclepias tuberosa</i>	butterfly weed	2.76
<i>Asclepias verticillata</i>	whorled milkweed	2.07
<i>Chamaecrista fasciculata</i>	partridge pea	7.17
<i>Coreopsis palmata</i>	prairie coreopsis	0.50
<i>Dalea purpurea</i>	purple prairie clover	4.00
<i>Drymocallis arguta</i>	prairie cinquefoil	8.27
<i>Echinacea pallida</i>	pale purple coneflower	3.01
<i>Eryngium yuccifolium</i>	rattlesnake master	1.38
<i>Heliopsis helianthoides</i>	early sunflower	1.38
<i>Lupinus perennis</i>	wild lupine	1.38
<i>Monarda fistulosa</i>	wild bergamot	1.01
<i>Pycnanthemum tenuifolium</i>	slender mountain mint	4.83
<i>Rudbeckia hirta</i>	black-eyed Susan	4.90
<i>Rudbeckia subtomentosa</i>	sweet black-eyed Susan	0.50
<i>Solidago nemoralis</i>	old-field goldenrod	3.01
<i>Symphyotrichum laeve</i>	smooth blue aster	0.50
<i>Symphyotrichum oolentangiense</i>	sky-blue aster	0.50
<i>Tradescantia ohiensis</i>	spiderwort	0.33



Scientific Name	Common Name	Seeding Rate (oz PLS/ac)
<i>Verbena stricta</i>	hoary vervain	0.25
<i>Zizia aurea</i>	golden alexanders	0.50
Total		137.90
Cover Crop		
<i>Elymus canadensis</i>	Canada wild rye	64.00
Gr. Total		201.90

Conifer Plantation

There are two conifer plantations that are not currently recommended to be removed and converted to other habitat types: the conifer plantation at Taylor Road Conservancy (1.94 acres), and the western conifer plantation along Hidden Farm Road in Urso Park (0.31 acres). Work proposed in these areas is minimal and includes the following:

- Woody invasive shrubs such as honeysuckle and common buckthorn should be removed using brushcutters or chainsaws in TMU-1 and the western conifer plantation in UMU-3 in winter Year-1. Cut stumps should be spot-treated with herbicide immediately after removal. Spot-spray resprouting invasive shrubs with herbicide in spring and summer Year-2. Continue aggressive spot-treatment of resprouting woody invasive shrubs in Year-3 and Year-4.
- Remove all boxelder and white mulberry trees using chainsaws and treat stumps with herbicide in winter Year-1. Spot-treat resprouting trees with herbicide in Year-2 and Year-3.
- Spot-spray lily-of-the-valley, crown vetch, and other invasive herbaceous species with herbicide in spring and summer Year-2. Repeat this process in Year-3 and Year-4.
- Begin long-term management of TMU-1 and the western conifer plantation in UMU-3 in winter Year-4. This would include annual spot-spraying of invasive species as needed.
- A timber harvest should be considered for TMU-1 in approximately 20 years when the trees reach harvest age. Conversion of this area to oak woodland should be considered at that time.

Implementation Schedule

Tables 36-44 summarize idealized restoration implementation schedules. Table 45 presents a five-year plan for Village-identified priority areas that the Village intends on restoring in the short-term. Schedules are subject to change based on funding, scheduling, and staffing constraints.

Table 36. Babcock Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	BMU-1 (0.57 acres)													
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native seed installation				X									
	Long-term management													X
Southern Hardwood Swamp	BMU-2 (1.95 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							
	Native seed installation								X					
Emergent Marsh	BMU-2 (4.40 acres)													
	Spot-spray reed canary grass and purple loosestrife		X	X			X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 37. Grand View Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	GMU-3A (4.31 acres)													
	Woody invasive forestry mowing, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native tree and shrub installation						X							
	Maintenance mowing						X	X			X	X		
	Long-term management													X
	GMU-3B (2.89 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
Southern Hardwood Swamp	Prescribed burning				X									
	Native seed installation				X									
	Native tree and shrub installation						X							
	Maintenance mowing						X	X			X	X		
	Long-term management													X
Southern Hardwood Swamp	GMU-1A-HS, GMU-1B (4.76 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Native seed installation								X					
	Long-term management													X
Emergent Marsh	GMU-1A-EM, GMU-1B (7.55 acres)													
	Broadcast-spray herb stratum		X											
	Spot-herbicide treatments - herb stratum			X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native plant installation						X							
	Long-term management													X
Pond Shoreline	GMU-1B (0.68 acres)													
	Native plant installation						X							
	Spot-herbicide treatments - herb stratum						X	X			X	X		
	Long-term management													X
Wet Prairie	GMU-1A-WM (3.86 acres)													
	Woody invasive hand removal, stump treatments	X												
	Broadcast-spray reed canary grass		X	X										
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Spot-herbicide treatments - herb stratum						X	X			X	X		
Wet-mesic Prairie	Long-term management													X
	GMU-1A-WM (1.89 acres)													
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
Mesic Prairie	Long-term management													X
	GMU-2A (2.45 acres)													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Long-term management													X
	GMU-2B (3.21 acres)													
	Woody invasive forestry mowing, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 38. Indian Mound/Thrun Marsh Conservancies Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Dry-mesic Forest	ITMU-1 (11.87 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Southern Mesic Forest	ITMU-1 (1.71 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Southern Hardwood Swamp	ITMU-2 (4.34 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							
	Native seed installation								X					
	Long-term management													X
Emergent Marsh	ITMU-2 (4.13 acres)													
	Broadcast-spray herb stratum		X											
	Spot-herbicide treatments - herb stratum			X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native plant installation						X							
	Long-term management													X

Note: Schedule subject to change.

Table 39. Marsh Woods Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	MMU-1 (4.47 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Southern Hardwood Swamp	MMU-3 (0.95 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							
	Native seed installation								X					
	Long-term management													X
Shrub-carr	MMU-3 (1.14 acres)													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Emergent Marsh	MMU-3 (6.52 acres)													
	Spot-spray common reed, reed canary grass, and purple loosestrife		X	X			X	X			X	X		
	Long-term management													X
Southern Sedge Meadow	MMU-3 (Existing Wet Meadow Area) (1.73 acres)													
	Woody invasive hand removal, stump treatments	X												
	Broadcast-spray reed canary grass		X	X										
	Prescribed burning				X									
	Native seed installation				X									
	Native plant installation						X							
	Maintenance mowing						X	X			X	X		
	Spot-herbicide treatments - herb stratum						X	X			X	X		
	Long-term management													X
	MMU-3 (Existing High-Quality Sedge Meadow) (7.25 acres)													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Long-term management													X
Mesic Prairie	MMU-2 (Existing Surrogate Grassland Area) (5.10 acres)													
	Woody invasive hand removal, stump treatments	X												
	Broadcast-spray non-native, cool season grasses		X											
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Long-term management													X
	MMU-2 (Existing Mesic Prairie) (1.10 acres)													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 40. Siggelkow Road Park Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	SMU-1 (3.82 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native tree and shrub installation						X							
	Long-term management													X

Note: Schedule subject to change.

Table 41. Taylor Road Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Dry-mesic Prairie	TMU-2 (1.20 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree removal	X												
	Spot- or broadcast-spray non-native, cool season grasses		X											
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Maintenance mowing						X	X			X	X		
	Long-term management													X
Conifer Plantation	TMU-1 (1.94 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 42. Urso Park Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	UMU-2 (7.91 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Southern Hardwood Swamp	UMU-1-HS (7.33 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Native tree and shrub installation						X							
	Native seed installation								X					
	Long-term management													X
Shrub-carr	UMU-1-SCE, UMU-1-SCN (3.82 acres)													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
	UMU-3 (East Conifer Plantation & Orchard) (1.79 acres)													
	Woody invasive hand removal, stump treatments	X												
	Tree removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native shrub installation						X							
	Long-term management													X
Emergent Marsh	UMU-1-EM (5.36 acres)													
	Spot-treat non-native cattail		X											
	Spot-herbicide treatments - herb stratum			X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native plant installation						X							
	Long-term management													X
Pond Shoreline	UMU-1-SCE (0.09 acres)													
	Native plant installation						X							
	Spot-herbicide treatments - herb stratum						X	X			X	X		
	Long-term management													X
Southern Sedge Meadow	UMU-1-WMN, UMU-1-WMS (3.40 acres)													
	Woody invasive hand removal, stump treatments	X												
	Broadcast-spray reed canary grass		X	X										
	Prescribed burning				X									
	Native seed installation				X									

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Native plant installation						X							
	Maintenance mowing						X	X			X	X		
	Spot-herbicide treatments - herb stratum						X	X			X	X		
	Long-term management													X
Conifer Plantation	UMU-3 (West Conifer Plantation) (0.31 acres)													
	Woody invasive hand removal, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 43. Woodland Commons Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	WMU-1 (5.16 acres)													
	Woody invasive forestry mowing, stump treatments	X												
	Tree girdling/removal	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Native tree and shrub installation						X							
	Maintenance mowing						X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 44. Yahara River Conservancy Restoration Implementation Schedule

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Floodplain Forest	YMU-1 (0.69 acres)													
	Woody invasive forestry mowing, stump treatments	X												
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Prescribed burning				X									
	Native seed installation				X									
	Long-term management													X
Emergent Marsh	YMU-1 (0.36 acres)													
	Spot-herbicide treatments - herb stratum		X	X			X	X			X	X		
	Long-term management													X

Note: Schedule subject to change.

Table 45. Five-Year Priority Area Implementation Schedule

Budget Year	Management Unit	Activity	Reasoning for Priority
2024	GMU-3A	Woody invasive forestry mowing, stump treatments	Trees in this unit are in severe decline creating hazards to adjoining properties
2024	GMU-3A	Tree girdling/removal	
2025	GMU-3B	Woody invasive hand removal, stump treatments	Trees in this unit are in severe decline creating hazards to adjoining properties
2025	GMU-3B	Tree girdling/removal	
2026	ITMU-2	Woody invasive hand removal, stump treatments	High-use area – area used for educational purposes by the school district
2026	ITMU-2	Tree girdling/removal	
2027/2028	WMU-1	Woody invasive forestry mowing, stump treatments	Property severely invaded by non-native trees and shrubs
2027/2028	WMU-1	Tree girdling/removal	



Adaptive Management

Adaptive management is defined as the day to day, season to season refinements in restoration programming needed to achieve success against the performance criteria. Any adaptive refinements are an anticipated, normal process on restoration projects. Restoration programs require flexibility because of temporal and spatial variability exhibited by natural systems. Adaptive management affords the Village the option to take advantage of the latest scientific and technological techniques for successful restoration.

This CMP is a starting point in an ongoing process of restoring the Village's conservancies biodiversity and natural processes. Regular monitoring will provide feedback on the CMP's effectiveness and will generate information to evaluate and justify the need for changes. Adaptive management is a fundamental tool for use in the restoration, management, and maintenance work.

If needed, potential remedial actions include over-seeding of low diversity or poorly growing areas with native seed collected onsite or nearby or purchased from an outside vendor, use of equipment and vehicles to conduct seeding and woody species replacement, using appropriate methods needed for stabilizing slopes with cover crop and other typical slope protection strategies such as erosion blanketing, limited rock placement, straw bale use, and installation of water deterrence barriers to prevent/stop erosion.

Other Management Considerations

Several conservancies have opportunities for ecological improvement that do not involve vegetation manipulation. For instance, there is significant erosion present at Indian Mound/Thrun Marsh Conservancies caused by stormwater runoff. There are also historic hydrologic modifications at several of the conservancies that are impeding ecological recovery and impairing wetland function. These items are discussed briefly below for the purpose of introducing the problem and potential solutions; however, fully developed conceptual plans have not been developed for these topics as that is outside the scope of this CMP.

Indian Mound Conservancy Stormwater Solutions

Gully Erosion

Several potential solutions exist to permanently repair the severe gully erosion present immediately north of Thrun Marsh. One highly engineered and less desirable solution is to regrade the channel to a stable geometry and then hard armor the entire conveyance with rip rap. This would halt additional erosion from occurring and eliminate sediment entering the downslope wetland. The disadvantage to this approach is it would be aesthetically unappealing and have little biological or ecological value.

A more aesthetic and ecologically sound approach involves creating a step pool system within the highly eroded gully. The erosive force of stormwater exiting the concrete pipe outfall has caused the downstream channel to down-cut triggering a cycle of bank failure, channel widening, and further incision. Over time, the high flows have moved suspended sediment downslope and deposited it within the existing wetland. Thick brush has taken over the area, choking out valuable low-growing herbaceous species that provide soil-stabilizing root systems. Without intervention, further soil erosion will persist, increasing the cost to restore the area.

The step pool design would include regrading the existing banks to raise the channel bottom and reduce bank height and slope. A series of step pools installed at increments along the length of the feature would provide energy-dissipation in the channel from the outfall downslope to the existing trail crossing. By reducing velocity, the pools will promote deposition of sediment originating from the storm sewer system, helping to maintain the channel elevation and reduce sedimentation in the existing wetland. Stone or



boulder riffles/weirs would stabilize the channel above and below the pools to maintain grade, trap sediment, and reduce runoff velocity. Revegetating the banks with native herbaceous species will stabilize the soil matrix above the pool and stone areas.

In addition to repair of the stormwater conveyance channel, RES recommends constructing a shallow wetland scrape to restore historic grades at the mouth of the conveyance. Several feet of sediment that has deposited in the wetland from the eroded uplands has created an alluvial fan (sediment mound) in this location. Removal of this sediment would eliminate invasive species in this area, restore the natural hydrologic regime, increase water storage capacity of the wetland, allow for restoration of historic plant communities, and improve water quality and wildlife habitat. Additional shallow scrapes could be excavated in other strategic locations within the marsh to provide additional benefits to water quality and habitat value.

Hiking Trail Rill Erosion

There are also several potential stormwater solutions for the severe rill erosion on the hiking trails in the eastern portion of Indian Mound Conservancy that is being caused by stormwater runoff from Indian Mound Middle School. However, these solutions would need to be implemented on the school property as that is the source of the issue. One solution is appropriately placed rain gardens. Rain gardens are easily installed, small, shallow depressions planted with native wetland and prairie vegetation (rather than turfgrass) that intercept sheet flow and infiltrate it into the ground. Rain gardens are effective in community areas in reducing runoff and soil erosion and promoting water infiltration into the soil.

Bioretention areas are soil- and plant-based stormwater management practices that filter runoff from developed sites by mimicking natural vegetated systems. These naturally control hydrology through infiltration and evapotranspiration. A typical application for a bioretention area is to infiltrate and treat surface runoff from parking lots, in which the bioretention area may consist of a recessed, slotted-curb parking island. Bioretention areas are small, vegetated depressions into which surface water is diverted. Stormwater flows into the bioretention area, ponds on the surface, and gradually infiltrates into the soil. Pollutants are removed by processes that include adsorption, filtration, volatilization, ion exchange, and decomposition. Treated water is allowed to infiltrate into the surrounding soil, or is collected by an underdrain system and discharged to the stormwater system or directly to receiving waters.

Vegetated swales or bioswales are shallow and gently sloped conveyances vegetated with native species. Swales have gently sloping sides and are used to convey the overland flow of stormwater down a subtle gradient. Swales accomplish many of the same functions provided by filter strips (slowing and cleaning water and promoting infiltration), while also providing directed conveyance. This conveyance function is particularly important when managing concentrated flows and during severe storm events when stormwater needs to be directed to a destination, such as a wetland. Swales should be designed with native species and can be augmented with check dams and other techniques to maximize their effectiveness at managing stormwater.

Filter strips are small, gently sloping, vegetated strips of land that slow overland flow of stormwater and promote infiltration. Depending on the type of vegetation and the size of the filter strip, effectiveness of these features varies. Filter strips with dense, tall, native vegetation can remove up to 80% of suspended solids. Filter strips utilizing grass only, particularly turf grass, are much less effective in slowing water and/or removing solids. If the filter strip is constructed with porous media in which water will readily infiltrate, the removal capability for sediments and pollutants will be as high as 98%.



Rain catchment systems are the last stormwater solution discussed for the middle school. Connecting roof downspouts to rain barrels is a highly effective method to separate roof runoff from sewer system. So long as the downspouts discharge into a suitable receiving area, there can be several variations of rain barrel design. Rain barrels can be connected to water holding containers located elsewhere on the site, or controlled to gradually irrigate an entire area over time, allowing for slow infiltration and reducing water velocities that would otherwise erode adjacent soils.

Urso Park and Grand View Conservancy Hydrology Restoration and Drainage Improvement

Hydrologic modifications at Urso Park and Grand View Conservancy present opportunities to restore the natural hydrologic regimes to these areas. This could be accomplished via stream re-meandering and/or wetland scrape construction. Hydrology restoration is the key to controlling invasive species and successfully restoring historic wetland ecosystems.

Both conservancies contain human-made ditches that are lowering the water tables in the adjacent wetlands and allowing for the proliferation of invasive reed canary grass. Depending on stream history and permitting constraints, re-meandering the streams to their historic course and reconnecting their floodplains may be an appropriate restoration approach. This would simultaneously reduce flooding in the area and restore a more natural hydrologic regime for adjacent wetlands.

One or more shallow wetland scrapes could be excavated in the northern portion of Grand View Conservancy (north of Creamery Road). The scrape would restore historic grades in this area which would eliminate invasive species, restore the natural hydrologic regime, increase water storage capacity of the wetland and reduce flooding, allow for restoration of historic plant communities, and improve water quality and wildlife habitat. Scrape design should follow NRCS scrape specifications (WDNR 2022).

Additional in-depth studies would need to be undertaken to determine the best hydrology restoration treatments for each site and potential offsite impacts. If hydrology restoration is pursued at any of the conservancies, those measures should be completed prior to vegetation restoration activities.

Regulatory Considerations

Wetlands, Waterways, and Floodplains

Wetland restoration activities requiring earthwork within existing wetlands such as wetland scrapes would likely require permits from the U.S. Army Corps of Engineers (USACE), WDNR, and potentially other local agencies. This work would likely qualify for a USACE Nationwide Permit 27 for Aquatic Habitat Restoration or similar permit, as well as a WDNR Wetland Conservation General Permit or similar permit. Local permits may also be required through the County and/or Village. Pre-application meetings with USACE, WDNR, and other relevant agencies should be held early in the planning/permitting phase of any project to ensure the proper permits are sought. Official wetland delineations will likely be required in areas where earthwork is proposed.

The eroded gully immediately north of Thrun Marsh may be considered a regulated waterway by the WDNR and/or USACE. This would need to be confirmed by an official wetland/waterway delineation and confirmation with the WDNR. If the erosional feature is considered regulatory, the repair could likely be designed to meet the eligibility requirements of a WDNR Streambank Erosion Control – Integrated Bank Treatment General Permit and a USACE Nationwide Permit 13 for Bank Stabilization.

Projects requiring federal permits are subject to National Historic Preservation Act Section 106 review.



Cultural resources investigations may therefore be required in areas subject to ground disturbance. Federal projects are also subject to the Endangered Species Act (ESA) Section 7 review.

Lastly, grading activities proposed within Federal Emergency Management Agency (FEMA) regulatory floodplains typically require floodplain development permits from counties or municipalities. Portions of Babcock, Marsh Woods, and Yahara River Conservancies are located within regulatory special flood hazard areas.

Stormwater and Erosion Control

If any earthwork footprint would exceed 1 acre, a Notice of Intent (NOI) would need to be filed to request coverage under Wisconsin's Construction Site Storm Water Runoff General Permit. Erosion control permits are also usually required at the County or municipal level.

Native American Mounds

McFarland's Native American Mound Policy states that no ground disturbing activities are allowed anywhere within Indian Mound Conservancy. This should be confirmed with the Wisconsin Historical Society because portions of this conservancy are in need of erosion repair that would require land disturbance. Per Native American Mound Policy, any activities that may cause ground disturbance on or near mounds within the Village conservancies requires prior approval from the Wisconsin Historical Society.

Vegetation on and in the vicinity of Native American mounds should be managed in accordance with the Village's Native American Mound Policy. Mechanized equipment such as forestry mowers should not be used to remove shrubs or trees on or within 15 feet of mounds. Therefore, vegetation clearing on or within 15 feet of the mounds should be conducted using hand equipment such as brushcutters and chainsaws. Trees should not be felled on or dragged across mounds. All cut woody materials should be removed from within 15 feet of the mounds. Roots of mature woody vegetation should be left in place to minimize ground disturbance. No machinery is permitted on slopes steeper than 12% on lands listed on the NRHP unless approved by the Wisconsin Historical Society. Surveys for artifacts on or near the mounds should be conducted after prescribed burning.

Prescribed Fire

A burn permit will need to be acquired from the Village prior to beginning a prescribed fire program. This will include preparation of a burn plan and close coordination with the Village Fire Department Fire Chief.



Management Plan

Short-term (3 years) and long-term (>3 years) vegetation management/maintenance programs should be implemented at Village conservancies to ensure long-term success of the site. Short-term management is when major efforts are undertaken to restore and enhance vegetation and biological diversity and ensure that the appropriate soil conditions are present for seeding and planting. The restoration phase includes tasks such as reducing non-native species prior to seeding and planting, initial prescribed burning, native seeding/planting, and tree removal. Routine management activities including herbicide application and mowing will occur during the early years of the restoration phase.

After achieving initial vegetation management goals there will be a shift to a lower-cost, reduced-intervention management program. This phase will begin in the fourth year following initial restoration treatments and will continue in perpetuity. This phase generally requires less intensive management efforts. Tasks during the management phase will include one or more of the following: spot herbicide treatments, remedial plantings, prescribed burning, and/or other management activities. Some mowing still may occur during this phase. Tasks are performed on a regular schedule, guided by periodic ecological assessments.

It is during the long-term management phase where opportunities for long-lasting personal involvement by volunteers and/or employees in land stewardship typically begin. Direct involvement in site stewardship and wildlife observations can provide an important and meaningful way to engage the community in the restoration project.

Community Opportunities

Conservancy neighbors and all McFarland residents play a critical role in the short- and long-term success of conservancy restoration and management. Land-use practices adjacent to, upslope, and upstream of the conservancies have demonstrable effects, both positive and negative, on the ecological health of the conservancies. The following are some opportunities residents can participate in to help ensure their natural areas remain healthy.

Education

The Village should consider hosting workshops and field trips designed to educate residents on topics such as stormwater management and green stormwater infrastructure design, native landscaping, ecology and ecological restoration, and other relevant topics. This will give people the tools to be able to recognize environmental degradation, identify the source of degradation, and develop solutions. Education is the most important step in ensuring successful restoration and maintenance of the conservancies' ecological health.

Native Landscaping

Utilizing native species in landscaping is an easy and enjoyable way for residents to have a direct positive impact on their environment. In addition to the aesthetic qualities provided by many native plant species, their deep root systems penetrate deep into the soil profile which increases water infiltration and reduces surface runoff. Native plants provide important pollinator habitat as well as habitat for numerous other wildlife and insect species. Native landscaping would also help to reduce the unwanted spread of non-native garden ornamentals into neighboring conservancies and help reduce Village vegetation maintenance costs. Several native plant nurseries exist in southern Wisconsin with hundreds of plant species available that come in a variety of growth forms, heights, and flower colors. There are also landscape architects that are well-versed in incorporating native plants into landscape design who are valuable resources to rely upon



if needed.

Sustainable Stormwater Infrastructure

Descriptions and benefits of rain gardens, bioswales, and rain catchment systems were described previously in this CMP. These types of systems can easily be adapted to use in almost any residential setting. They are generally inexpensive and have simple designs but provide significant benefits to downstream water quality. Stormwater design and construction specialists can assist landowners with design and installation of these systems.

Volunteering

The Village hosts numerous volunteer opportunities at the conservancies throughout the course of the year, which include activities such as invasive species removal and native planting. These events are perfect opportunities to learn about ecological and ecosystem management while simultaneously improving the ecological condition of the conservancies. Those interested in volunteer opportunities should follow the Village on social media to stay up to date on these opportunities as they arise.

Invasive Species Control

Invasive species are the most significant ecological stressors at Village conservancies and diligent control efforts are needed to reduce their prevalence. Because of the extent and variety of invasive species, numerous methods will be required to control them, including tree removal, forestry mowing/brushcutting, broadcast and spot-herbicide treatment, mowing, hand-pulling, and prescribed fire. Invasive species management during the short-term management phase was described in detail in the Conceptual Ecological Restoration Plan.

Invasive species management during the long-term management phase should include herbicide spot-treatment events conducted throughout each MU in spring and summer of Year-4 and Year-5. Spot-spraying frequency and extent can likely be reduced in subsequent years assuming invasive species have been adequately controlled. Mowing can also be employed prior to flowering/seed set as an alternative to herbicide treatments or if certain invasive species populations missed treatment. Regular prescribed burns (every 2-3 years) should also be instituted particularly in prairies and open-canopy woodlands, but also less frequently in forested areas.

Several conservancies experience relatively heavy use by students and the general public so it will be a priority to protect park users from herbicide exposure. Effective communication between the herbicide application contractor and conservancy staff will be critical to ensure appropriate trail closure during and after herbicide application events. Herbicides will only be applied by licensed contractors, or at the direction of a certified applicator, following WDNR pesticide use policies and the Pesticide Use Manual Code (4230.1).

Supplemental Planting and Seeding

Supplemental seeding and/or plant installation may be needed in areas with significant native plant mortality and seeding failure as determined qualitatively by a qualified ecologist. Tree and shrub replanting should occur in spring or early summer and supplemental seeding should occur in spring or fall. Species selection should follow the plant palettes and seed mixes presented in the Conceptual Ecological Restoration Plan for the appropriate zones. Following an adaptive management approach, if certain species are observed to be performing particularly well in given areas, then those species should be emphasized in revegetation efforts for those areas.



Prescribed Fire

Fire is a critical tool for reducing shrub invasion into the prairies and savannas and to create suitable conditions for native species establishment and persistence. Prescribed burning should occur in the restored prairies and oak woodlands on a 2 to 3 year interval in either early spring or late-summer/fall. Fire should also periodically be used in closed-canopy forests.

Prescribed burns must only be conducted by qualified contractors or Village staff when environmental conditions (wind speed/direction, relative humidity, and fuel load/moisture) are optimal. Burns should not be conducted during periods of drought or when air quality advisories are in place. Because most of the conservancies are surrounded by residential and commercial developments, smoke management will be critical so that smoke-sensitive areas are not affected. Burn permits and approvals must be acquired from the Village of McFarland Fire Department prior to burning.

Mowing can be conducted in lieu of prescribed fire in areas where implementing burns is infeasible. Restored prairie and oak woodland areas should be mowed every two to three years during the long-term management phase in areas where burning is not permitted.



Monitoring Plan

Qualitative Monitoring

RES recommends a qualified ecologist conducts qualitative site assessments twice per growing season during the short-term management phase to assess vegetation performance and maintenance needs. Qualitative assessments should include inspecting recently restored areas taking note of general species dominance, mortality, disturbances, and maintenance needs. Maintenance needs should be communicated to the Village, and addressed, in a timely manner.

Quantitative Monitoring

Vegetation

To maintain consistency with baseline survey methods and efficiently collect the necessary level of information, monitoring methods should follow those in Study Methods Section of this CMP. Plot sampling following wetland delineation methodology and quadrat sampling along transects are more intensive types of vegetation surveys that the Village can consider utilizing if funding allows. Plots and transects should be randomly located throughout each restored plant community at sampling intensities that accurately represent each community. Species-area curves can be used to determine sampling intensity adequacy.

Wildlife Use

Observations of wildlife utilizing the conservancies and wildlife disturbance (i.e., footprints, tree rubbing, and plant browse) should be documented during monitoring events. Wildlife observations may include, but is not limited to, avian species, amphibian species, reptilian species, insect, and/or mammalian species. The Village should consider conducting formal bird, herptile, mammal, and insect surveys to fully understand functional uplift of wildlife habitat that occurs in response to restoration efforts.

Hydrology

If hydrology restoration is completed at any conservancy, a hydrology monitoring program should be developed. Hydrology monitoring could involve the use of staff gauges and/or water table monitoring wells outfitted with electronic dataloggers to track hydrologic responses to restoration.

Monitoring Schedule

Quantitative vegetation monitoring should occur soon after initial restoration activities are complete within a plant community or MU and then repeated at varying frequencies depending on the habitat being monitored. Table 46 presents an idealized quantitative monitoring schedule; however, the Village may have to adjust this schedule based on resource availability.



Table 46. Quantitative Monitoring Schedule

Plant Community	Year-1	Year-2	Year-3	Year-5	Year-7	Year-10
Herbaceous Communities ¹	X	X	X	X		
Shrub-carr	X	X	X	X	X	
Woodlands and forests without planted trees and shrubs ²	X	X	X	X		
Woodlands and forests with planted trees and shrubs ³	X	X	X	X	X	X

¹ Herbaceous communities include emergent marsh, pond shoreline, southern sedge meadow, wet prairie, wet-mesic prairie, mesic prairie, and dry-mesic prairie.

² Woodlands and forests without planted trees and shrubs includes conifer plantation, floodplain forest, southern dry-mesic forest, southern mesic forest at Indian Mound and Babcock Conservancies, and oak woodlands at Urso Park and Marsh Woods Conservancy.

³ Woodlands and forests with planted trees and shrubs includes southern hardwood swamp, oak woodlands at Woodland Commons Conservancy and Siggelkow Road Park, and southern mesic forest at Grand View Conservancy.

Performance Standards

Vegetation

In general, restored areas should exhibit increasing trends in native species abundance, native plant diversity, *w*FQI, and *w*Mean C and decreasing abundance of non-native and invasive species over time. Specific targets for metrics associated with each plant community type are suggested in Table 47 below; however, failure to attain some of these standards is not indicative that restoration was unsuccessful. Some of these performance standards are relatively stringent and restoration potential varies widely between sites due to constraints inherent to each site. Performance standards are particularly useful when they are used to guide ongoing vegetation management.

Table 47. Vegetation Performance Standards

Performance Standard	Benchmark 1	Benchmark 2	Final
Oak Woodland, Southern Dry-mesic Forest, and Southern Mesic Forest			
Maximum Allowance for Unvegetated Areas	<400 ft ²	<100 ft ²	<10 ft ²
Perennial Native Species Richness	≥10	≥15	≥20
Native Relative Areal Cover	≥50%	≥70%	≥80%
Non-native Relative Areal Cover	<50%	≤30%	≤20%
Southern Hardwood Swamp and Floodplain Forest			
Maximum Allowance for Unvegetated Areas	<400 ft ²	<100 ft ²	<10 ft ²
Perennial Native Hydrophyte Species Richness	≥10	≥15	≥20
Native Hydrophyte Relative Areal Cover (all strata cumulatively)	≥75%	≥80%	≥85%
Native Relative Areal Cover	≥80%	≥85%	≥90%
Non-native Relative Areal Cover	≤20%	≤15%	≤10%
Shrub-carr			
Maximum Allowance for Unvegetated Areas	<400 ft ²	<100 ft ²	<10 ft ²
Perennial Native Hydrophyte Species Richness	≥6	≥10	≥15
Native Hydrophyte Relative Areal Cover (all strata cumulatively)	≥70%	≥75%	≥80%
Native Relative Areal Cover	≥75%	≥80%	≥85%
Non-native Relative Areal Cover	≤25%	≤20%	≤15%
Emergent Marsh & Pond Shoreline			



Performance Standard	Benchmark 1	Benchmark 2	Final
Perennial Native Hydrophyte Species Richness	≥6	≥10	≥15
Native Hydrophyte Relative Areal Cover	≥40%	≥65%	≥75%
Native Relative Areal Cover	≥75%	≥80%	≥85%
Non-native Relative Areal Cover	≤25%	≤20%	≤15%
Sedge Meadow & Wet Prairie			
Maximum Allowance for Unvegetated Areas	<400 ft ²	<100 ft ²	<10 ft ²
Perennial Native Hydrophyte Species Richness	≥6	≥10	≥15
Native Hydrophyte Relative Areal Cover	≥40%	≥65%	≥75%
Native Relative Areal Cover	≥50%	≥70%	≥80%
Non-native Relative Areal Cover	<50%	≤30%	≤20%
Wet-mesic, Mesic, and Dry-mesic Prairie			
Maximum Allowance for Unvegetated Areas	<400 ft ²	<100 ft ²	<10 ft ²
Perennial Native Species Richness	≥6	≥10	≥15
Native Relative Areal Cover	≥50%	≥70%	≥80%
Non-native Relative Areal Cover	<50%	≤30%	≤20%

Hydrology

If hydrology restoration is completed at any conservancy, hydrology performance standards should be developed for each wetland type restored. One potential hydrology performance standard for restored wetlands is as follows: the water table will be ≤12 inches below the ground surface for a duration that is within 20% of the variability range of a reference wetland. An alternative standard for restored sedge meadow and wet prairie wetlands is hydrology will consist of a water table 12 inches or less below the soil surface for a minimum of 28 consecutive days, or two periods of 14 or more consecutive days, during the growing season under normal and wetter than normal hydrological conditions. Inundation during the growing season will not occur except: (1) at the start of the growing season (due to snowmelt/precipitation); and (2) following the 10-year, 24-hour—or greater—precipitation events. Depth of inundation during the growing season will be 6 inches or less with duration of less than 14 consecutive days.

Reporting

Monitoring reports should be prepared summarizing monitoring results from the preceding growing season. Reports would be used to determine if the conservancies are meeting performance standards and could include the following information:

- Site location information, permit numbers (if relevant), methodology, and monitoring dates.
- Goals, objectives, and performance standards of the conservancy.
- Identification of any failures or external disturbances to the site.
- Description of management activities conducted during the last year and corrective actions needed for the upcoming year.
- A summary of all data collected during the past year.
- A summary of all plant species within each plant community.
- Data sheets.



- Hydrology and precipitation data for each year if relevant.
- Wildlife observations.
- A site map with locations of all data collection locations.
- An assessment of the presence and level of occurrence of non-native, invasive species.
- An assessment of the degree to which performance standards are being met.
- Representative site photographs.
- A narrative summary of the monitoring results and conclusions.

Opinion of Probable Costs

Tables 48-65 present RES' opinion of probable costs (OPC) for proposed restoration work as well as estimated labor hours. Table 66 and Table 67 present the OPC and estimated labor hours respectively for the priority management units' five-year plan. Cost estimates will need to be refined during the implementation phases of the projects.

Table 48. Babcock Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	BMU-1 (0.57 acres)													
	Spot-herbicide treatments - herb stratum		\$500	\$500			\$550	\$550			\$600	\$600		
	Native seed installation				\$1,500									
	Long-term management													\$2,000
Southern Hardwood Swamp	BMU-2 (1.95 acres)													
	Woody invasive hand removal, stump treatments	\$9,750												
	Tree girdling/removal	\$2,000												
	Spot-herbicide treatments - herb stratum		\$975	\$975			\$1,100	\$1,100			\$1,200	\$1,200		
	Native tree and shrub installation						\$19,500							
	Native seed installation								\$5,000					
Emergent Marsh	BMU-2 (4.40 acres)													
	Spot-spray reed canary grass and purple loosestrife		\$2,225	\$2,225			\$2,500	\$2,500			\$2,750	\$2,750		
	Long-term management													\$9,000
	Total	\$11,750	\$3,700	\$3,700	\$1,500		\$23,650	\$4,150	\$5,000		\$4,550	\$4,550		\$15,000
Grand Total		\$77,550												

Table 49. Babcock Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	BMU-1 (0.57 acres)													
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Native seed installation				4									
	Long-term management													12
Southern Hardwood Swamp	BMU-2 (1.95 acres)													
	Woody invasive hand removal, stump treatments	300												
	Tree girdling/removal	24												
	Spot-herbicide treatments - herb stratum		8	8			8	8			8	8		
	Native tree and shrub installation						64							
	Native seed installation								8					
Emergent Marsh	BMU-2 (4.40 acres)													
	Spot-spray reed canary grass and purple loosestrife		20	20			20	20			20	20		
	Long-term management													60
	Total	324	32	32	4		96	32	8		32	32		96
Grand Total		688												

Table 50. Grand View Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	GMU-3A (4.31 acres)													
	Woody invasive forestry mowing, stump treatments	\$10,775												
	Tree girdling/removal	\$43,100												
	Spot-herbicide treatments - herb stratum		\$2,200	\$2,200			\$2,400	\$2,400			\$2,650	\$2,650		
	Prescribed burning				\$5,000									
	Native seed installation				\$1,750									
	Native tree and shrub installation						\$107,750							
	Maintenance mowing						\$900	\$900			\$1,000	\$1,000		
	Long-term management													\$8,750
	GMU-3B (2.89 acres)													
	Woody invasive hand removal, stump treatments	\$14,500												
	Tree girdling/removal	\$28,900												
	Spot-herbicide treatments - herb stratum		\$1,500	\$1,500			\$1,650	\$1,650			\$1,800	\$1,800		
	Prescribed burning				\$3,500									
	Native seed installation				\$7,250									
	Native tree and shrub installation						\$72,250							
	Maintenance mowing						\$600	\$600			\$650	\$650		
	Long-term management													\$6,000
Southern Hardwood Swamp	GMU-1A-HS, GMU-1B (4.76 acres)													
	Woody invasive hand removal, stump treatments	\$23,800												
	Tree girdling/removal	\$5,000												
	Spot-herbicide treatments - herb stratum		\$2,400	\$2,400			\$2,650	\$2,650			\$3,000	\$3,000		
	Native tree and shrub installation						\$47,600							
	Native seed installation								\$11,900					
Emergent Marsh	Long-term management													\$10,000
	GMU-1A-EM, GMU-1B (7.55 acres)													
	Broadcast-spray herb stratum		\$2,000											
	Spot-herbicide treatments - herb stratum			\$4,000			\$4,400	\$4,400			\$4,850	\$4,850		
	Prescribed burning				\$5,000									
	Native seed installation				\$18,875									
Pond Shoreline	Native plant installation						\$30,200							
	Long-term management													\$16,000
	GMU-1B (0.68 acres)													
	Native plant installation						\$10,200							
Wet Prairie	Spot-herbicide treatments - herb stratum						\$700	\$700			\$770	\$770		
	Long-term management													\$2,500
	GMU-1A-WM (3.86 acres)													
	Woody invasive hand removal, stump treatments	\$19,300												
	Broadcast-spray reed canary grass		\$1,000	\$1,000										
	Prescribed burning				\$3,500									
	Native seed installation				\$4,725									
	Maintenance mowing						\$800	\$800			\$900	\$900		
	Spot-herbicide treatments - herb stratum						\$1,950	\$1,950			\$2,200	\$2,200		
	Long-term management													\$7,500

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Wet-mesic Prairie	GMU-1A-WM (1.89 acres)													
	Spot-herbicide treatments - herb stratum		\$950	\$950			\$1,050	\$1,050			\$1,200	\$1,200		
	Prescribed burning				\$3,500									
	Native seed installation				\$4,725									
	Maintenance mowing						\$500	\$500			\$550	\$550		
	Long-term management													\$4,000
Mesic Prairie	GMU-2A (2.45 acres)													
	Woody invasive hand removal, stump treatments	\$12,250												
	Spot-herbicide treatments - herb stratum		\$1,250	\$1,250			\$1,375	\$1,375			\$1,500	\$1,500		
	Prescribed burning				\$3,500									
	Native seed installation				\$6,125									
	Maintenance mowing						\$500	\$500			\$550	\$550		
	Long-term management													\$5,000
	GMU-2B (3.21 acres)													
	Woody invasive forestry mowing, stump treatments	\$16,000												
	Spot-herbicide treatments - herb stratum		\$1,600	\$1,600			\$1,750	\$1,750			\$1,950	\$1,950		
	Prescribed burning				\$3,500									
	Native seed installation				\$8,025									
	Maintenance mowing						\$650	\$650			\$725	\$725		
	Long-term management													\$6,500
Total		\$173,625	\$12,900	\$14,900	\$83,900		\$289,875	\$21,875	\$11,900		\$24,295	\$24,295		\$66,250
Grand Total		\$723,815												

Table 51. Grand View Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Mesic Forest	GMU-3A (4.31 acres)													
	Woody invasive forestry mowing, stump treatments	650												
	Tree girdling/removal	1,300												
	Spot-herbicide treatments - herb stratum		20	20			20	20			20	20		
	Prescribed burning				64									
	Native seed installation				18									
	Native tree and shrub installation						360							
	Maintenance mowing						7	7			7	7		
	Long-term management													60
	GMU-3B (2.89 acres)													
	Woody invasive hand removal, stump treatments	435												
	Tree girdling/removal	870												
	Spot-herbicide treatments - herb stratum		12	12			12	12			12	12		
	Prescribed burning				32									
	Native seed installation				18									
	Native tree and shrub installation						240							
	Maintenance mowing						5	5			5	5		
	Long-term management													36
Southern Hardwood Swamp	GMU-1A-HS, GMU-1B (4.76 acres)													
	Woody invasive hand removal, stump treatments	715												
	Tree girdling/removal	58												
	Spot-herbicide treatments - herb stratum		20	20			20	20			20	20		
	Native tree and shrub installation						160							
	Native seed installation								20					
Emergent Marsh	GMU-1A-EM, GMU-1B (7.55 acres)													
	Broadcast-spray herb stratum		12											
	Spot-herbicide treatments - herb stratum			30			30	30			30	30		
	Prescribed burning				64									
	Native seed installation				30									
	Native plant installation						150							
Pond Shoreline	GMU-1B (0.68 acres)													
	Native plant installation						50							
	Spot-herbicide treatments - herb stratum						4	4			4	4		
	Long-term management													12
Wet Prairie	GMU-1A-WM (3.86 acres)													
	Woody invasive hand removal, stump treatments	580												
	Broadcast-spray reed canary grass		6	6										
	Prescribed burning				32									
	Native seed installation				16									
	Maintenance mowing						8	8			8	8		
	Spot-herbicide treatments - herb stratum						16	16			16	16		
	Long-term management													48

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Wet-mesic Prairie	GMU-1A-WM (1.89 acres)													
	Spot-herbicide treatments - herb stratum		8	8			8	8			8	8		
	Prescribed burning				32									
	Native seed installation				8									
	Maintenance mowing						4	4			4	4		
	Long-term management													24
Mesic Prairie	GMU-2A (2.45 acres)													
	Woody invasive hand removal, stump treatments	370												
	Spot-herbicide treatments - herb stratum		10	10			10	10			10	10		
	Prescribed burning				32									
	Native seed installation				10									
	Maintenance mowing						4	4			4	4		
	Long-term management													30
	GMU-2B (3.21 acres)													
	Woody invasive forestry mowing, stump treatments	20												
	Spot-herbicide treatments - herb stratum		12	12			12	12			12	12		
	Prescribed burning				32									
	Native seed installation				12									
	Maintenance mowing						7	7			7	7		
	Long-term management													36
Total		4,998	100	118	400		1,127	167	20		167	167		396
Grand Total		7,660												

Table 52. Indian Mound/Thrun Marsh Conservancies Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Dry-mesic Forest	ITMU-1 (11.87 acres)													
	Woody invasive hand removal, stump treatments	\$59,500												
	Tree girdling/removal	\$12,000												
	Spot-herbicide treatments - herb stratum		\$6,000	\$6,000			\$6,600	\$6,600			\$7,250	\$7,250		
	Prescribed burning				\$6,500									
	Native seed installation				\$30,000									
	Long-term management													\$24,000
Southern Mesic Forest	ITMU-1 (1.71 acres)													
	Woody invasive hand removal, stump treatments	\$9,000												
	Tree girdling/removal	\$2,000												
	Spot-herbicide treatments - herb stratum		\$900	\$900			\$1,000	\$1,000			\$1,100	\$1,100		
	Prescribed burning				\$3,500									
	Native seed installation				\$4,250									
	Long-term management													\$4,000
Southern Hardwood Swamp	ITMU-2 (4.34 acres)													
	Woody invasive hand removal, stump treatments	\$21,700												
	Tree girdling/removal	\$4,500												
	Spot-herbicide treatments - herb stratum		\$2,200	\$2,200			\$2,500	\$2,500			\$2,750	\$2,750		
	Native tree and shrub installation						\$43,500							
	Native seed installation								\$10,750					
	Long-term management													\$9,000
Emergent Marsh	ITMU-2 (4.13 acres)													
	Broadcast-spray herb stratum		\$1,200											
	Spot-herbicide treatments - herb stratum			\$2,000			\$2,200	\$2,200			\$2,500	\$2,500		
	Prescribed burning				\$5,000									
	Native seed installation				\$10,250									
	Native plant installation						\$16,500							
	Long-term management													\$8,250
Total		\$108,700	\$10,300	\$11,100	\$59,500		\$72,300	\$12,300	\$10,750		\$13,600	\$13,600		\$45,250
Grand Total		\$357,400												

Table 53. Indian Mound/Thrun Marsh Conservancies Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Southern Dry-mesic Forest	ITMU-1 (11.87 acres)													
	Woody invasive hand removal, stump treatments	1,780												
	Tree girdling/removal	140												
	Spot-herbicide treatments - herb stratum		48	48			48	48			48	48		
	Prescribed burning				72									
	Native seed installation				48									
	Long-term management													144
Southern Mesic Forest	ITMU-1 (1.71 acres)													
	Woody invasive hand removal, stump treatments	260												
	Tree girdling/removal	20												
	Spot-herbicide treatments - herb stratum		7	7			7	7			7	7		
	Prescribed burning				32									
	Native seed installation				7									
	Long-term management													21
Southern Hardwood Swamp	ITMU-2 (4.34 acres)													
	Woody invasive hand removal, stump treatments	650												
	Tree girdling/removal	52												
	Spot-herbicide treatments - herb stratum		18	18			18	18			18	18		
	Native tree and shrub installation						140							
	Native seed installation								20					
	Long-term management													54
Emergent Marsh	ITMU-2 (4.13 acres)													
	Broadcast-spray herb stratum		7											
	Spot-herbicide treatments - herb stratum			16			16	16			16	16		
	Prescribed burning				64									
	Native seed installation				16									
	Native plant installation						80							
	Long-term management													48
Total		2,902	80	89	239		309	89	20		89	89		267
Grand Total		4,173												

Table 54. Marsh Woods Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	MMU-1 (4.47 acres)													
	Woody invasive hand removal, stump treatments	\$22,500												
	Tree girdling/removal	\$5,000												
	Spot-herbicide treatments - herb stratum		\$2,250	\$2,250			\$2,500	\$2,500			\$2,750	\$2,750		
	Prescribed burning				\$5,000									
	Native seed installation				\$11,250									
	Long-term management													\$9,000
Southern Hardwood Swamp	MMU-3 (0.95 acres)													
	Woody invasive hand removal, stump treatments	\$5,000												
	Tree girdling/removal	\$1,000												
	Spot-herbicide treatments - herb stratum		\$500	\$500			\$550	\$550			\$600	\$600		
	Native tree and shrub installation						\$10,000							
	Native seed installation								\$2,500					
	Long-term management													\$2,000
Shrub-carr	MMU-3 (1.14 acres)													
	Woody invasive hand removal, stump treatments	\$5,700												
	Spot-herbicide treatments - herb stratum		\$600	\$600			\$675	\$675			\$750	\$750		
	Prescribed burning				\$3,500									
	Native seed installation				\$2,850									
	Long-term management													\$2,500
Emergent Marsh	MMU-3 (6.52 acres)													
	Spot-spray common reed, reed canary grass, and purple loosestrife		\$3,300	\$3,300			\$3,600	\$3,600			\$4,000	\$4,000		
	Long-term management													\$14,500
Southern Sedge Meadow	MMU-3 (Existing Wet Meadow Area) (1.73 acres)													
	Woody invasive hand removal, stump treatments	\$8,700												
	Broadcast-spray reed canary grass		\$500	\$500										
	Prescribed burning				\$3,500									
	Native seed installation				\$4,325									
	Native plant installation						\$1,000							
	Maintenance mowing						\$500	\$500			\$550	\$550		
	Spot-herbicide treatments - herb stratum						\$900	\$900			\$1,000	\$1,000		
	Long-term management													\$3,500
	MMU-3 (Existing High-Quality Sedge Meadow) (7.25 acres)													
	Woody invasive hand removal, stump treatments	\$36,500												
	Spot-herbicide treatments - herb stratum		\$3,650	\$3,650			\$4,000	\$4,000			\$4,400	\$4,400		
	Long-term management													\$14,500
Mesic Prairie	MMU-2 (Existing Surrogate Grassland Area) (5.10 acres)													
	Woody invasive hand removal, stump treatments	\$25,500												
	Broadcast-spray non-native, cool season grasses		\$1,300											
	Spot-herbicide treatments - herb stratum		\$2,600	\$2,600			\$2,900	\$2,900			\$3,200	\$3,200		
	Prescribed burning				\$5,000									
	Native seed installation				\$12,750									
	Maintenance mowing						\$1,050	\$1,050			\$1,200	\$1,200		

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Long-term management													\$10,500
	MMU-2 (Existing Mesic Prairie) (1.10 acres)													
	Woody invasive hand removal, stump treatments	\$5,500												
	Spot-herbicide treatments - herb stratum		\$550	\$550			\$600	\$600			\$675	\$675		
	Prescribed burning				\$3,500									
	Native seed installation				\$2,750									
	Maintenance mowing						\$500	\$500			\$550	\$550		
	Long-term management													\$2,500
Total		\$115,400	\$15,250	\$13,950	\$54,425		\$28,775	\$17,775	\$2,500		\$19,675	\$19,675		\$58,000
Grand Total		\$345,425												

Table 55. Marsh Woods Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	MMU-1 (4.47 acres)													
	Woody invasive hand removal, stump treatments	670												
	Tree girdling/removal	54												
	Spot-herbicide treatments - herb stratum		18	18			18	18			18	18		
	Prescribed burning				64									
	Native seed installation				18									
	Long-term management													54
Southern Hardwood Swamp	MMU-3 (0.95 acres)													
	Woody invasive hand removal, stump treatments	150												
	Tree girdling/removal	12												
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Native tree and shrub installation						34							
	Native seed installation								4					
Shrub-carr	MMU-3 (1.14 acres)													
	Woody invasive hand removal, stump treatments	170												
	Spot-herbicide treatments - herb stratum		5	5			5	5			5	5		
	Prescribed burning				32									
	Native seed installation				5									
	Long-term management													15
Emergent Marsh	MMU-3 (6.52 acres)													
	Spot-spray common reed, reed canary grass, and purple loosestrife		40	40			40	40			40	40		
	Long-term management													120
Southern Sedge Meadow	MMU-3 (Existing Wet Meadow Area) (1.73 acres)													
	Woody invasive hand removal, stump treatments	260												
	Broadcast-spray reed canary grass		5	5										
	Prescribed burning				32									
	Native seed installation				5									
	Native plant installation						5							

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Maintenance mowing						4	4			4	4		
	Spot-herbicide treatments - herb stratum						7	7				7		
	Long-term management													21
	MMU-3 (Existing High-Quality Sedge Meadow) (7.25 acres)													
	Woody invasive hand removal, stump treatments	1,088												
	Spot-herbicide treatments - herb stratum		30	30			30	30			30			
	Long-term management													90
Mesic Prairie	MMU-2 (Existing Surrogate Grassland Area) (5.10 acres)													
	Woody invasive hand removal, stump treatments	765												
	Broadcast-spray non-native, cool season grasses		8											
	Spot-herbicide treatments - herb stratum		20	20			20	20			20	20		
	Prescribed burning				64									
	Native seed installation				20									
	Maintenance mowing						8	8			8	8		
	Long-term management													60
	MMU-2 (Existing Mesic Prairie) (1.10 acres)													
	Woody invasive hand removal, stump treatments	165												
	Spot-herbicide treatments - herb stratum		5	5			5	5			5	5		
	Prescribed burning				32									
	Native seed installation				5									
	Maintenance mowing						4	4			4	4		
	Long-term management													15
Total		3,334	135	127	277		184	145	4		145	145		391
Grand Total		4,887												

Table 56. Siggelkow Road Park Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	SMU-1 (3.82 acres)													
	Woody invasive hand removal, stump treatments	\$19,100												
	Tree girdling/removal	\$38,200												
	Spot-herbicide treatments - herb stratum		\$2,000	\$2,000			\$2,200	\$2,200			\$2,500	\$2,500		
	Prescribed burning				\$3,500									
	Native seed installation				\$9,550									
	Native tree and shrub installation						\$38,200							
	Long-term management													\$8,500
Total		\$57,300	\$2,000	\$2,000	\$13,050		\$40,400	\$2,200			\$2,500	\$2,500		\$8,500
Grand Total		\$130,450												

Table 57. Siggelkow Road Park Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	SMU-1 (3.82 acres)													
	Woody invasive hand removal, stump treatments	575												
	Tree girdling/removal	1,150												
	Spot-herbicide treatments - herb stratum		16	16			16	16			16	16		
	Prescribed burning				32									
	Native seed installation				16									
	Native tree and shrub installation						128							
	Long-term management													48
Total		1,725	16	16	48		114	16			16	16		48
Grand Total		2,045												

Table 58. Taylor Road Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Dry-mesic Prairie	TMU-2 (1.20 acres)													
	Woody invasive hand removal, stump treatments	\$6,000												
	Tree removal	\$19,500												
	Spot- or broadcast-spray non-native, cool season grasses		\$500											
	Spot-herbicide treatments - herb stratum		\$600	\$600			\$650	\$650			\$725	\$725		
	Prescribed burning				\$3,500									
	Native seed installation				\$3,000									
	Maintenance mowing						\$500	\$500			\$550	\$550		
	Long-term management													\$2,400
Conifer Plantation	TMU-1 (1.94 acres)													
	Woody invasive hand removal, stump treatments	\$9,700												
	Tree girdling/removal	\$2,000												
	Spot-herbicide treatments - herb stratum		\$1,000	\$1,000			\$1,100	\$1,100			\$1,200	\$1,200		
	Long-term management													\$4,000
Total		\$37,200	\$2,100	\$1,600	\$6,500		\$2,250	\$2,250			\$2,475	\$2,475		\$6,400
Grand Total		\$63,250												

Table 59. Taylor Road Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Dry-mesic Prairie	TMU-2 (1.20 acres)													
	Woody invasive hand removal, stump treatments	180												
	Tree removal	360												
	Spot- or broadcast-spray non-native, cool season grasses		4											
	Spot-herbicide treatments - herb stratum		5	5			5	5			5	5		
	Prescribed burning				32									
	Native seed installation				5									
	Maintenance mowing						4	4			4	4		
	Long-term management													15
Conifer Plantation	TMU-1 (1.94 acres)													
	Woody invasive hand removal, stump treatments	290												
	Tree girdling/removal	24												
	Spot-herbicide treatments - herb stratum		8	8			8	8			8	8		
	Long-term management													24
Total		854	17	13	37		17	17			17	17		39
Grand Total		1,028												

Table 60. Urso Park Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	UMU-2 (7.91 acres)													
	Woody invasive hand removal, stump treatments	\$40,000												
	Tree girdling/removal	\$8,000												
	Spot-herbicide treatments - herb stratum		\$4,000	\$4,000			\$4,400	\$4,400			\$4,850	\$4,850		
	Prescribed burning				\$6,500									
	Native seed installation				\$20,000									
	Long-term management													\$16,000
Southern Hardwood Swamp	UMU-1-HS (7.33 acres)													
	Woody invasive hand removal, stump treatments	\$36,500												
	Tree girdling/removal	\$7,500												
	Spot-herbicide treatments - herb stratum		\$3,700	\$3,700			\$4,000	\$4,000			\$4,400	\$4,400		
	Native tree and shrub installation						\$73,500							
	Native seed installation								\$18,250					
	Long-term management													\$14,500
Shrub-carr	UMU-1-SCE, UMU-1-SCN (3.82 acres)													
	Woody invasive hand removal, stump treatments	\$19,100												
	Spot-herbicide treatments - herb stratum		\$2,000	\$2,000			\$2,200	\$2,200			\$2,500	\$2,500		
	Prescribed burning				\$3,500									
	Native seed installation				\$9,7500									
	Long-term management													\$8,500
	UMU-3 (East Conifer Plantation & Orchard) (1.79 acres)													
	Woody invasive hand removal, stump treatments	\$9,000												
	Tree removal	\$17,900												

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Spot-herbicide treatments - herb stratum		\$1,000	\$1,000			\$1,100	\$1,100			\$1,200	\$1,200		
	Prescribed burning				\$3,500									
	Native seed installation				\$4,500									
	Native shrub installation						\$26,850							
	Long-term management													\$5,000
Emergent Marsh	UMU-1-EM (5.36 acres)													
	Spot-treat non-native cattail		\$10,750											
	Spot-herbicide treatments - herb stratum			\$2,700			\$3,000	\$3,000			\$3,300	\$3,300		
	Prescribed burning				\$6,500									
	Native seed installation				\$13,400									
	Native plant installation						\$21,500							
	Long-term management													\$11,000
Pond Shoreline	UMU-1-SCE (0.09 acres)													
	Native plant installation						\$15,000							
	Spot-herbicide treatments - herb stratum						\$500	\$500			\$550	\$550		
	Long-term management													\$2,000
Southern Sedge Meadow	UMU-1-WMN, UMU-1-WMS (3.40 acres)													
	Woody invasive hand removal, stump treatments	\$17,000												
	Broadcast-spray reed canary grass		\$850	\$850										
	Prescribed burning				\$3,500									
	Native seed installation				\$8,500									
	Native plant installation						\$1,700							
	Maintenance mowing						\$680	\$500			\$550	\$550		
	Spot-herbicide treatments - herb stratum						\$1,700	\$1,700			\$1,870	\$1,870		
Conifer Plantation	Long-term management													\$6,170
	UMU-3 (West Conifer Plantation) (0.31 acres)													
	Woody invasive hand removal, stump treatments	\$2,000												
	Spot-herbicide treatments - herb stratum		\$500	\$500			\$550	\$550			\$600	\$600		
	Long-term management													\$2,000
Total		\$157,000	\$22,800	\$14,750	\$79,650		\$156,680	\$18,130	\$18,250		\$19,950	\$19,950		\$65,170
Grand Total		\$572,330												

Table 61. Urso Park Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	UMU-2 (7.91 acres)													
	Woody invasive hand removal, stump treatments	1,190												
	Tree girdling/removal	95												
	Spot-herbicide treatments - herb stratum		32	32			32	32			32	32		
	Prescribed burning				72									
	Native seed installation				32									
	Long-term management													64
Southern Hardwood Swamp	UMU-1-HS (7.33 acres)													
	Woody invasive hand removal, stump treatments	1,100												
	Tree girdling/removal	88												
	Spot-herbicide treatments - herb stratum		30	30			30	30			30	30		
	Native tree and shrub installation						245							
	Native seed installation								30					
	Long-term management													90
Shrub-carr	UMU-1-SCE, UMU-1-SCN (3.82 acres)													
	Woody invasive hand removal, stump treatments	575												
	Spot-herbicide treatments - herb stratum		16	16			16	16			16	16		
	Prescribed burning				32									
	Native seed installation				16									
	Long-term management													48
	UMU-3 (East Conifer Plantation & Orchard) (1.79 acres)													
	Woody invasive hand removal, stump treatments	270												
	Tree removal	540												
	Spot-herbicide treatments - herb stratum		7	7			7	7			7	7		
	Prescribed burning				32									
	Native seed installation				7									
	Native shrub installation						90							
	Long-term management													21
Emergent Marsh	UMU-1-EM (5.36 acres)													
	Spot-treat non-native cattail		86											
	Spot-herbicide treatments - herb stratum			22			22	22			22	22		
	Prescribed burning				73									
	Native seed installation				22									
	Native plant installation						108							
	Long-term management													66
Pond Shoreline	UMU-1-SCE (0.09 acres)													
	Native plant installation						75							
	Spot-herbicide treatments - herb stratum						4	4			4	4		
	Long-term management													12
Southern Sedge Meadow	UMU-1-WMN, UMU-1-WMS (3.40 acres)													
	Woody invasive hand removal, stump treatments	510												
	Broadcast-spray reed canary grass		9	9										
	Prescribed burning				32									
	Native seed installation				14									

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
	Native plant installation						9							
	Maintenance mowing						5	5			5	5		
	Spot-herbicide treatments - herb stratum						14	14			14	14		
	Long-term management													42
Conifer Plantation	UMU-3 (West Conifer Plantation) (0.31 acres)													
	Woody invasive hand removal, stump treatments	48												
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Long-term management													12
Total		4,416	184	120	332		661	134	30		134	134		355
Grand Total		6,500												

Table 62. Woodland Commons Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	WMU-1 (5.16 acres)													
	Woody invasive forestry mowing, stump treatments	\$25,500												
	Tree girdling/removal	\$51,600												
	Spot-herbicide treatments - herb stratum		\$2,500	\$2,500			\$2,750	\$2,750			\$3,000	\$3,000		
	Prescribed burning				\$5,000									
	Native seed installation				\$12,500									
	Native tree and shrub installation						\$51,600							
	Maintenance mowing						\$1,050	\$1,050			\$1,200	\$1,200		
	Long-term management													\$10,000
Total		\$77,100	\$2,500	\$2,500	\$17,500		\$55,400	\$3,800			\$4,200	\$4,200		\$10,000
Grand Total		\$177,200												

Table 63. Woodland Commons Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Oak Woodland	WMU-1 (5.16 acres)													
	Woody invasive forestry mowing, stump treatments	775												
	Tree girdling/removal	1,550												
	Spot-herbicide treatments - herb stratum		20	20			20	20			20	20		
	Prescribed burning				64									
	Native seed installation				20									
	Native tree and shrub installation						175							
	Maintenance mowing						10	10			10	10		
	Long-term management													80
Total		2,325	20	20	84		205	30			30	30		80
Grand Total		2,824												

Table 64. Yahara River Conservancy Opinion of Probable Costs

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Floodplain Forest	YMU-1 (0.69 acres)													
	Woody invasive forestry mowing, stump treatments	\$3,500												
	Spot-herbicide treatments - herb stratum		\$500	\$500			\$550	\$550			\$600	\$600		
	Prescribed burning				\$3,500									
	Native seed installation				\$1,750									
	Long-term management													\$2,000
Emergent Marsh	YMU-1 (0.36 acres)													
	Spot-herbicide treatments - herb stratum		\$500	\$500			\$550	\$550			\$600	\$600		
	Long-term management													\$2,000
Total		\$3,500	\$1,000	\$1,000	\$5,250		\$1,100	\$1,100			\$1,200	\$1,200		\$4,000
Grand Total		\$19,350												

Table 65. Yahara River Conservancy Estimated Labor Hours

Community Type	Activity	Win Yr-1	Spr Yr-2	Sum Yr-2	Fall Yr-2	Win Yr-2	Spr Yr-3	Sum Yr-3	Fall Yr-3	Win Yr-3	Spr Yr-4	Sum Yr-4	Fall Yr-4	Win Yr-4
Floodplain Forest	YMU-1 (0.69 acres)													
	Woody invasive forestry mowing, stump treatments	6												
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Prescribed burning				32									
	Native seed installation				4									
	Long-term management													12
Emergent Marsh	YMU-1 (0.36 acres)													
	Spot-herbicide treatments - herb stratum		4	4			4	4			4	4		
	Long-term management													12
Total		6	8	8	36		8	8			8	8		24
Grand Total		114												

Table 66. Five-Year Priority Area Opinion of Probable Costs

Budget Year	Management Unit	Activity	Opinion of Probable Costs
2024	GMU-3A	Woody invasive forestry mowing, stump treatments	\$10,775
2024	GMU-3A	Tree girdling/removal	\$43,100
2025	GMU-3B	Woody invasive hand removal, stump treatments	\$14,500
2025	GMU-3B	Tree girdling/removal	\$28,900
2026	ITMU-2	Woody invasive hand removal, stump treatments	\$21,700
2026	ITMU-2	Tree girdling/removal	\$4,500
2027/2028	WMU-1	Woody invasive forestry mowing, stump treatments	\$25,500
2027/2028	WMU-1	Tree girdling/removal	\$51,600

Table 67. Five-Year Priority Area Estimated Labor Hours

Budget Year	Management Unit	Activity	Estimated Labor Hours
2024	GMU-3A	Woody invasive forestry mowing, stump treatments	650
2024	GMU-3A	Tree girdling/removal	1,300
2025	GMU-3B	Woody invasive hand removal, stump treatments	435
2025	GMU-3B	Tree girdling/removal	870
2026	ITMU-2	Woody invasive hand removal, stump treatments	650
2026	ITMU-2	Tree girdling/removal	52
2027/2028	WMU-1	Woody invasive forestry mowing, stump treatments	775
2027/2028	WMU-1	Tree girdling/removal	1,550



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Appendix A. Figures



Appendix B. Photo-documentation



Photo 1. Photo-point 1 at Babcock Conservancy (BMU-1) looking north at southern mesic forest (July 19, 2022).



Photo 2. Photo-point 2 at Babcock Conservancy (BMU-2) looking east at southern hardwood swamp (July 19, 2022).



Photo 3. Photo-point 3 at Babcock Conservancy (BMU-2) looking north at emergent marsh (July 19, 2022).



Photo 4. Photo-point 4 at Babcock Conservancy (BMU-1) looking southeast at emergent marsh (July 19, 2022).



Photo 5. Photo-point 1 at Grand View Conservancy (GMU-1A) looking north at emergent marsh (July 12, 2022).



Photo 6. Photo-point 2 at Grand View Conservancy (GMU-1A) looking north at wet-mesic prairie (July 12, 2022).



Photo 7. Photo-point 3 at Grand View Conservancy (GMU-2A) looking northwest at mesic prairie (July 12, 2022).



Photo 8. Photo-point 4 at Grand View Conservancy (GMU-2B) looking north at shrub-invaded mesic prairie (July 12, 2022).



Photo 9. Photo-point 5 at Grand View Conservancy (GMU-1A) looking north at southern hardwood swamp (July 12, 2022).



Photo 10. Photo-point 6 at Grand View Conservancy (GMU-3A) looking east at southern mesic forest (July 12, 2022).



Photo 11. Photo-point 7 at Grand View Conservancy (GMU-1A) looking south at wet meadow (foreground) and southern hardwood swamp (background) (July 12, 2022).



Photo 12. Photo-point 8 at Grand View Conservancy (GMU-1B) looking north at emergent marsh (July 12, 2022).



Photo 13. Photo-point 9 at Grand View Conservancy (GMU-3B) looking east at southern mesic forest (July 12, 2022).



Photo 14. Photo-point 10 at Grand View Conservancy (GMU-1B) looking southeast at emergent marsh (July 12, 2022).



Photo 15. Photo-point 11 at Grand View Conservancy (GMU-1A) looking south at emergent marsh (July 12, 2022).



Photo 16. Encroachment at Grand View Conservancy. This photo shows shallow drainage swales excavated on Village property (July 12, 2022).



Photo 17. Encroachment at Grand View Conservancy. This photo shows debris and firewood piles from adjacent landowners on Village property (July 12, 2022).



Photo 18. Invasive species, *Physalis alkekengi*, at Grand View Conservancy escaped from nearby gardens (July 12, 2022).



Photo 19. Photo-point 1 at Thrun Marsh (ITMU-2) looking south at emergent marsh and southern hardwood swamp (July 20, 2022).



Photo 20. Photo-point 2 at Thrun Marsh (ITMU-2) looking west at southern hardwood swamp (July 20, 2022).



Photo 21. Photo-point 3 at Indian Mound Conservancy (ITMU-1) looking south at southern mesic forest (July 20, 2022).



Photo 22. Photo-point 3 at Indian Mound Conservancy (ITMU-1) looking west at southern mesic forest (July 20, 2022).



Photo 23. Photo-point 4 at Indian Mound Conservancy (ITMU-1) looking east at southern dry-mesic forest (July 20, 2022).



Photo 24. Photo-point 5 at Indian Mound Conservancy (ITMU-1) looking north at a Native American mound (July 20, 2022).



Photo 25. Photo-point 6 at Indian Mound Conservancy (ITMU-1) looking south at southern dry-mesic forest (July 20, 2022).



Photo 26. Photo-point 7 at Indian Mound Conservancy (ITMU-1) looking west at southern dry-mesic forest (July 20, 2022).



Photo 27. Photo-point 8 at Indian Mound Conservancy (ITMU-1) looking southwest at southern dry-mesic forest (July 20, 2022).



Photo 28. Stormwater discharge at pipe at upstream end of severe gully erosion in Thrun Marsh Conservancy (large precipitation event on June 8, 2022).



Photo 29. Severe gully erosion downstream of stormwater discharge pipe in Thrun Marsh Conservancy (large precipitation event on June 8, 2022).



Photo 30. Severe gully erosion downstream of stormwater discharge pipe in Thrun Marsh Conservancy (large precipitation event on June 8, 2022).



Photo 31. Culvert under the trail at terminus of severe gully erosional feature. View from the alluvial fan at the edge of Thrun Marsh (large precipitation event on June 8, 2022).



Photo 32. Concentrated stormwater runoff from Indian Mound Middle School upslope of Indian Mound Conservancy hiking trail (large precipitation event on June 8, 2022).



Photo 33. Rill erosion on hiking trail at Indian Mound Conservancy caused by concentrated runoff from the Indian Mound Middle School (large precipitation event on June 8, 2022).



Photo 34. Photo-point 1 at Marsh Woods Conservancy (MMU-2) looking southwest at mesic prairie (July 20, 2022).



Photo 35. Photo-point 1 Marsh Woods Conservancy (MMU-2) looking west at surrogate grassland (July 20, 2022).



Photo 36. Photo-point 2 at Marsh Woods Conservancy (MMU-1) looking west at oak woodland (July 20, 2022).



Photo 37. Photo-point 3 Marsh Woods Conservancy (MMU-3) looking west at southern sedge meadow (July 20, 2022).



Photo 38. Photo-point 4 at Marsh Woods Conservancy (MMU-3) looking west at surrogate grassland and wet meadow (July 20, 2022).



Photo 39. Photo-point 5 at Marsh Woods Conservancy (MMU-3) looking east at southern sedge meadow (foreground) and shrub-carr (background) (July 20, 2022).



Photo 40. Photo-point 5 at Marsh Woods Conservancy (MMU-3) looking west at southern sedge meadow (July 20, 2022).



Photo 41. Photo-point 6 at Marsh Woods Conservancy (MMU-3) looking east at emergent marsh (July 20, 2022).



Photo 42. Photo-point 7 at Marsh Woods Conservancy (MMU-3) looking west at southern hardwood swamp (July 20, 2022).



Photo 43. Photo-point 8 at Marsh Woods Conservancy (SMU-1) looking southeast at emergent marsh (July 20, 2022).



Photo 44. Photo-point 1 at Siggelkow Rd Park (SMU-1) looking northwest at southern dry-mesic forest (July 19, 2022).



Photo 45. Photo-point 2 at Siggelkow Rd Park (SMU-1) looking southwest at a Native American mound (July 19, 2022).



Photo 46. Photo-point 3 at Siggelkow Rd Park (SMU-1) looking southeast at southern dry-mesic forest (July 19, 2022).



Photo 47. Photo-point 1 at Taylor Rd Conservancy (TMU-2B) looking west at invaded surrogate grassland (July 19, 2022).



Photo 48. Photo-point 2 at Taylor Rd Conservancy (TMU-1) looking south at conifer plantation (July 19, 2022).



Photo 49. Photo-point 3 at Taylor Rd Conservancy (TMU-2A) looking north at invaded surrogate grassland (July 19, 2022).



Photo 50. Photo-point 4 at Taylor Rd Conservancy (TMU-2B) looking southwest at invaded surrogate grassland (July 19, 2022).



Photo 51. Photo-point 5 at Taylor Rd Conservancy (TMU-1) looking north at conifer plantation (July 19, 2022).



Photo 52. Photo-point 6 at Taylor Rd Conservancy (TMU-1) looking south at a Native American mound (July 19, 2022).



Photo 53. Photo-point 1 at Urso Park (UMU-1) looking south at wet meadow (July 12, 2022).



Photo 54. Photo-point 1 at Urso Park (UMU-1) looking west at wet meadow (foreground) and southern hardwood swamp (background) (July 12, 2022).



Photo 55. Photo-point 2 at Urso Park (UMU-1) looking southwest at shrub-carr (July 12, 2022).



Photo 56. Photo-point 3 at Urso Park (UMU-1) looking northwest at wet meadow (July 12, 2022).



Photo 57. Photo-point 4 at Urso Park (UMU-1) looking north at southern hardwood swamp (July 12, 2022).

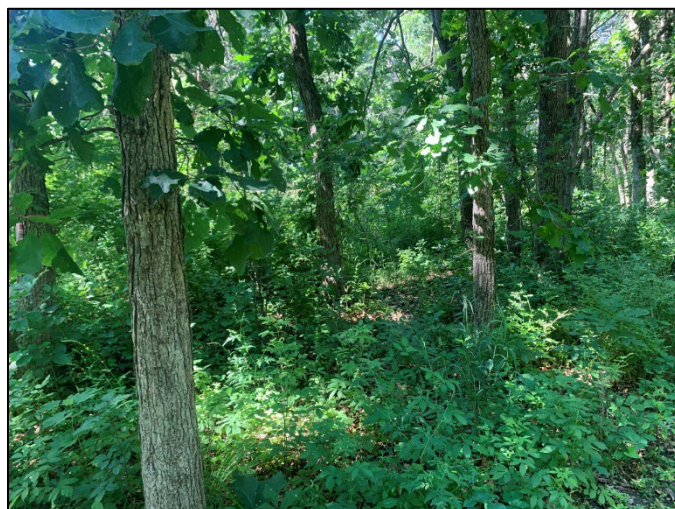


Photo 58. Photo-point 5 at Urso Park (UMU-2) looking northeast at oak woodland (July 12, 2022).



Photo 59. Photo-point 5 at Urso Park (UMU-2) looking southwest at oak woodland (July 12, 2022).



Photo 60. Photo-point 6 at Urso Park (UMU-1) looking north at emergent marsh (July 12, 2022).



Photo 61 Photo-point 7 at Urso Park (UMU-1) looking south at the pond (July 12, 2022).



Photo 62. Photo-point 8 at Urso Park (UMU-1) looking east at shrub-carr (July 12, 2022).



Photo 63. Photo-point 8 at Urso Park (UMU-1) looking west at emergent marsh (July 12, 2022).



Photo 64. Photo-point 9 at Urso Park (UMU-3) looking east at an old orchard (July 12, 2022).



Photo 65. Photo-point 1 at Woodland Commons Conservancy (WMU-1) looking southeast at southern dry-mesic forest (July 19, 2022).



Photo 66. Photo-point 2 at Woodland Commons Conservancy (WMU-1) looking southwest at southern dry-mesic forest (July 19, 2022).



Photo 67. Photo-point 3 at Woodland Commons Conservancy (YMU-1) looking north at southern dry-mesic forest (July 19, 2022).



Photo 68. Photo-point 1 at Yahara River Conservancy (YMU-1) looking northeast at emergent marsh (foreground) and floodplain forest (background) (July 19, 2022).



Photo 69. Photo-point 2 at Yahara River Conservancy (YMU-1) looking southwest at floodplain forest (July 19, 2022).



Appendix C. eBird Observation Data



Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Waterfowl									
Snow Goose	<i>Anser caerulescens</i>			X			X		X
Graylag Goose	<i>Anser anser</i>			X		X	X		X
Greater White-fronted Goose	<i>Anser albifrons</i>			X		X	X	X	
Cackling Goose	<i>Branta hutchinsii</i>			X		X	X		X
Canada Goose	<i>Branta canadensis</i>			X	X	X	X	X	X
Mute Swan	<i>Cygnus olor</i>			X			X		
Trumpeter Swan	<i>Cygnus buccinator</i>			X		X	X		X
Tundra Swan	<i>Cygnus columbianus</i>			X		X	X	X	X
Wood Duck	<i>Aix sponsa</i>			X		X	X	X	X
Blue-winged Teal	<i>Spatula discors</i>			X		X	X	X	
Northern Shoveler	<i>Spatula clypeata</i>			X		X	X	X	X
Gadwall	<i>Mareca strepera</i>			X		X	X		X
American Wigeon	<i>Mareca americana</i>						X		X
Mallard	<i>Anas platyrhynchos</i>			X		X	X	X	X
American Black Duck	<i>Anas rubripes</i>	Species of Greatest Conservation Need		X		X	X		X
Northern Pintail	<i>Anas acuta</i>			X		X	X		X
Green-winged Teal	<i>Anas crecca</i>			X			X	X	
Canvasback	<i>Aythya valisineria</i>			X		X	X		X
Redhead	<i>Aythya americana</i>			X		X	X		X
Ring-necked Duck	<i>Aythya collaris</i>			X		X	X		X
Greater Scaup	<i>Aythya marila</i>			X		X	X		X
Lesser Scaup	<i>Aythya affinis</i>			X		X	X	X	X
Black Scoter	<i>Melanitta americana</i>			X					
Bufflehead	<i>Bucephala albeola</i>			X		X	X	X	X
Common Goldeneye	<i>Bucephala clangula</i>	Species of Greatest Conservation Need		X		X	X	X	X
Hooded Merganser	<i>Lophodytes cucullatus</i>			X		X	X		X
Common Merganser	<i>Mergus merganser</i>			X		X	X	X	X
Red-breasted Merganser	<i>Mergus serrator</i>			X		X	X		
Ruddy Duck	<i>Oxyura jamaicensis</i>			X		X	X		
Grouse, Quail, and Allies									
Wild Turkey	<i>Meleagris gallopavo</i>			X		X	X	X	X
Grebes									
Pied-billed Grebe	<i>Podilymbus podiceps</i>			X		X	X		X
Horned Grebe	<i>Podiceps auritus</i>			X					
Red-necked Grebe	<i>Podiceps grisegena</i>	Species of Greatest Conservation Need	Endangered	X					
Pigeons and Doves									
Rock Pigeon	<i>Columba livia</i>			X		X	X	X	
Mourning Dove	<i>Zenaidura macroura</i>			X	X	X	X	X	X
Cuckoos									
Yellow-billed Cuckoo	<i>Coccyzus americanus</i>			X		X	X	X	
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>					X		X	



Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Nightjars									
Common Nighthawk	<i>Chordeiles minor</i>	Species of Greatest Conservation Need		X		X	X		
Swifts									
Chimney Swift	<i>Chaetura pelagica</i>			X		X	X	X	X
Hummingbirds									
Ruby-throated Hummingbird	<i>Archilochus colubris</i>			X		X		X	
Rails, Gallinules, and Allies									
Virginia Rail	<i>Rallus limicola</i>					X			
Sora	<i>Porzana carolina</i>					X	X		
American Coot	<i>Fulica americana</i>			X		X	X	X	X
Cranes									
Sandhill Crane	<i>Antigone canadensis</i>			X	X	X	X	X	X
Shorebirds									
Killdeer	<i>Charadrius vociferus</i>			X		X	X	X	X
Semipalmated Plover	<i>Charadrius semipalmatus</i>								X
Least Sandpiper	<i>Calidris minutilla</i>						X		
Pectoral Sandpiper	<i>Calidris melanotos</i>							X	
American Woodcock	<i>Scolopax minor</i>	Species of Greatest Conservation Need				X		X	
Wilson's Snipe	<i>Gallinago delicata</i>						X	X	
Spotted Sandpiper	<i>Actitis macularius</i>			X		X	X		
Solitary Sandpiper	<i>Tringa solitaria</i>			X		X	X	X	
Lesser Yellowlegs	<i>Tringa flavipes</i>			X		X	X		
Greater Yellowlegs	<i>Tringa melanoleuca</i>					X	X	X	
Gulls, Terns and Skimmers									
Bonaparte's Gull	<i>Chroicocephalus philadelphia</i>			X		X	X		
Ring-billed Gull	<i>Larus delawarensis</i>			X		X	X	X	X
Herring Gull	<i>Larus argentatus</i>			X		X	X	X	X
Glaucous Gull	<i>Larus hyperboreus</i>			X					
Caspian Tern	<i>Hydroprogne caspia</i>	Species of Greatest Conservation Need	Endangered	X		X	X		
Black Tern	<i>Chlidonias niger</i>	Species of Greatest Conservation Need	Endangered	X			X		
Forster's Tern	<i>Sterna forsteri</i>	Species of Greatest Conservation Need	Endangered	X		X	X		
Loons									
Common Loon	<i>Gavia immer</i>			X		X	X		
Cormorants and Anhinga									
Double-crested Cormorant	<i>Phalacrocorax auritus</i>			X		X	X	X	
Pelicans									
American White Pelican	<i>Pelecanus erythrorhynchos</i>			X		X	X	X	
Hérons, Ibises, and Allies									
Least Bittern	<i>Ixobrychus exilis</i>	Species of Greatest Conservation Need		X			X		
Great Blue Heron	<i>Ardea herodias</i>			X		X	X	X	X



Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Great Egret	<i>Ardea alba</i>	Species of Greatest Conservation Need	Threatened	X		X	X	X	
Green Heron	<i>Butorides virescens</i>			X		X	X	X	X
Black-crowned Night-Heron	<i>Nycticorax nycticorax</i>	Species of Greatest Conservation Need		X			X		
Vultures, Hawks, and Allies									
Turkey Vulture	<i>Cathartes aura</i>			X		X	X	X	X
Osprey	<i>Pandion haliaetus</i>			X		X	X	X	
Northern Harrier	<i>Circus hudsonius</i>						X		
Sharp-shinned Hawk	<i>Accipiter striatus</i>			X		X			
Cooper's Hawk	<i>Accipiter cooperii</i>			X	X	X	X	X	X
Bald Eagle	<i>Haliaeetus leucocephalus</i>			X		X	X	X	X
Red-shouldered Hawk	<i>Buteo lineatus</i>	Species of Greatest Conservation Need	Threatened			X			
Broad-winged Hawk	<i>Buteo platypterus</i>			X		X			
Red-tailed Hawk	<i>Buteo jamaicensis</i>			X	X	X	X	X	X
Rough-legged Hawk	<i>Buteo lagopus</i>						X		
Ferruginous Hawk	<i>Buteo regalis</i>			X					
Owls									
Eastern Screech-Owl	<i>Megascops asio</i>					X	X	X	
Great Horned Owl	<i>Bubo virginianus</i>			X		X	X	X	
Barred Owl	<i>Strix varia</i>					X		X	
Kingfisher									
Belted Kingfisher	<i>Megasceryle alcyon</i>			X		X	X	X	X
Woodpeckers									
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>					X	X		
Red-bellied Woodpecker	<i>Melanerpes carolinus</i>			X	X	X	X	X	X
Yellow-bellied Sapsucker	<i>Sphyrapicus varius</i>			X		X	X	X	X
Downy Woodpecker	<i>Dryobates pubescens</i>			X		X	X	X	X
Hairy Woodpecker	<i>Dryobates villosus</i>			X	X	X	X	X	X
Northern Flicker	<i>Colaptes auratus</i>			X		X	X	X	X
Pileated Woodpecker	<i>Dryocopus pileatus</i>					X			X
Falcons and Caracara									
American Kestrel	<i>Falco sparverius</i>			X		X	X	X	
Merlin	<i>Falco columbarius</i>			X		X			
Flycatchers									
Olive-sided Flycatcher	<i>Contopus cooperi</i>	Species of Greatest Conservation Need				X			
Eastern Wood-Pewee	<i>Contopus virens</i>			X		X	X	X	
Yellow-bellied Flycatcher	<i>Empidonax flaviventris</i>					X	X		
Alder Flycatcher	<i>Empidonax alnorum</i>					X	X	X	
Willow Flycatcher	<i>Empidonax traillii</i>					X	X	X	X



Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Least Flycatcher	<i>Empidonax minimus</i>	Species of Greatest Conservation Need				X	X	X	
Eastern Phoebe	<i>Sayornis phoebe</i>			X		X	X	X	
Great Crested Flycatcher	<i>Myiarchus crinitus</i>			X		X	X	X	X
Eastern Kingbird	<i>Tyrannus tyrannus</i>			X		X	X	X	X
Vireos									
White-eyed Vireo	<i>Vireo griseus</i>					X			
Yellow-throated Vireo	<i>Vireo flavifrons</i>			X		X	X	X	
Blue-headed Vireo	<i>Vireo solitarius</i>					X		X	
Philadelphia Vireo	<i>Vireo philadelphicus</i>					X		X	
Warbling Vireo	<i>Vireo gilvus</i>			X		X	X	X	X
Red-eyed Vireo	<i>Vireo olivaceus</i>			X		X	X	X	
Shrikes									
Northern Shrike	<i>Lanius borealis</i>			X			X		
Jays, Magpies, Crows, and Ravens									
Blue Jay	<i>Cyanocitta cristata</i>			X	X	X	X	X	X
American Crow	<i>Corvus brachyrhynchos</i>			X	X	X	X	X	X
Tits, Chickadees, and Titmice									
Black-capped Chickadee	<i>Poecile atricapillus</i>			X	X	X	X	X	X
Tufted Titmouse	<i>Baeolophus bicolor</i>			X		X	X	X	X
Larks									
Horned Lark	<i>Eremophila alpestris</i>			X			X		
Martins and Swallows									
Bank Swallow	<i>Riparia riparia</i>			X		X	X	X	X
Tree Swallow	<i>Tachycineta bicolor</i>			X		X	X	X	X
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>			X		X	X		X
Purple Martin	<i>Progne subis</i>	Species of Greatest Conservation Need		X		X	X		X
Barn Swallow	<i>Hirundo rustica</i>			X		X	X	X	X
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>			X		X	X		X
Kinglets									
Ruby-crowned Kinglet	<i>Regulus calendula</i>	Species of Greatest Conservation Need		X		X	X	X	
Golden-crowned Kinglet	<i>Regulus satrapa</i>			X		X	X	X	X
Nuthatches									
Red-breasted Nuthatch	<i>Sitta canadensis</i>			X		X	X	X	X
White-breasted Nuthatch	<i>Sitta carolinensis</i>			X	X	X	X	X	X
Treecreepers									
Brown Creeper	<i>Certhia americana</i>			X		X	X	X	X
Gnatcatcher									
Blue-gray Gnatcatcher	<i>Poliophtila caerulea</i>			X		X	X	X	
Wrens									
House Wren	<i>Troglodytes aedon</i>			X		X	X	X	X
Winter Wren	<i>Troglodytes hiemalis</i>					X	X	X	
Sedge Wren	<i>Cistothorus platensis</i>							X	



Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Marsh Wren	<i>Cistothorus palustris</i>					X	X		X
Carolina Wren	<i>Thryothorus ludovicianus</i>			X		X	X		
Starlings and Mynas									
European Starling	<i>Sturnus vulgaris</i>			X	X	X	X	X	X
Catbirds and Thrashers									
Gray Catbird	<i>Dumetella carolinensis</i>			X			X	X	X
Brown Thrasher	<i>Toxostoma rufum</i>							X	
Thrushes									
Eastern Bluebird	<i>Sialia sialis</i>			X			X	X	
Veery	<i>Catharus fuscescens</i>					X	X	X	
Gray-cheeked Thrush	<i>Catharus minimus</i>			X		X		X	
Swainson's Thrush	<i>Catharus ustulatus</i>	Species of Greatest Conservation Need				X	X	X	X
Hermit Thrush	<i>Catharus guttatus</i>					X	X	X	
Wood Thrush	<i>Hylocichla mustelina</i>					X	X	X	
American Robin	<i>Turdus migratorius</i>			X		X	X	X	X
Waxwings									
Cedar Waxwing	<i>Bombycilla cedrorum</i>			X		X	X	X	X
Old World Sparrows									
House Sparrow	<i>Passer domesticus</i>			X	X	X		X	X
Finches, Euphonias, and Allies									
House Finch	<i>Haemorhous mexicanus</i>			X	X	X	X	X	X
Purple Finch	<i>Haemorhous purpureus</i>			X		X	X	X	
Common Redpoll	<i>Acanthis flammea</i>			X		X	X		X
White-winged Crossbill	<i>Loxia leucoptera</i>			X		X		X	
Pine Siskin	<i>Spinus pinus</i>			X		X	X	X	X
American Goldfinch	<i>Spinus tristis</i>			X		X	X	X	X
New World Sparrows									
Chipping Sparrow	<i>Spizella passerina</i>			X		X	X	X	X
Clay-colored Sparrow	<i>Spizella pallida</i>						X		
Field Sparrow	<i>Spizella pusilla</i>					X	X	X	
Fox Sparrow	<i>Passerella iliaca</i>			X		X	X	X	
American Tree Sparrow	<i>Spizelloides arborea</i>			X		X	X	X	X
Dark-eyed Junco	<i>Junco hyemalis</i>			X		X	X	X	X
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>			X		X	X	X	
White-throated Sparrow	<i>Zonotrichia albicollis</i>			X		X	X	X	X
Vesper Sparrow	<i>Pooecetes gramineus</i>	Species of Greatest Conservation Need						X	
Henslow's Sparrow	<i>Centronyx henslowii</i>	Species of Greatest Conservation Need	Threatened					X	
Savannah Sparrow	<i>Passerculus sandwichensis</i>					X			
Song Sparrow	<i>Melospiza melodia</i>			X	X	X	X	X	X
Lincoln's Sparrow	<i>Melospiza lincolni</i>					X	X	X	
Swamp Sparrow	<i>Melospiza georgiana</i>			X		X	X	X	X



Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Eastern Towhee	<i>Pipilo erythrophthalmus</i>					X	X	X	
Blackbirds									
Bobolink	<i>Dolichonyx oryzivorus</i>	Species of Greatest Conservation Need				X			
Eastern Meadowlark	<i>Sturnella magna</i>	Species of Greatest Conservation Need				X			
Orchard Oriole	<i>Icterus spurius</i>					X	X		
Baltimore Oriole	<i>Icterus galbula</i>			X		X	X	X	X
Red-winged Blackbird	<i>Agelaius phoeniceus</i>			X	X	X	X	X	X
Brown-headed Cowbird	<i>Molothrus ater</i>			X		X	X	X	
Rusty Blackbird	<i>Euphagus carolinus</i>	Species of Greatest Conservation Need		X		X	X	X	
Common Grackle	<i>Quiscalus quiscula</i>			X		X	X	X	X
Wood-Warblers									
Ovenbird	<i>Seiurus aurocapilla</i>					X	X	X	
Worm-eating Warbler	<i>Helmitheros vermivorum</i>	Species of Greatest Conservation Need	Endangered			X			
Northern Waterthrush	<i>Parkesia noveboracensis</i>					X	X	X	X
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	Species of Greatest Conservation Need		X		X		X	
Blue-winged Warbler	<i>Vermivora cyanoptera</i>					X		X	
Black-and-white Warbler	<i>Mniotilta varia</i>					X	X	X	
Prothonotary Warbler	<i>Protonotaria citrea</i>	Species of Greatest Conservation Need		X			X		
Tennessee Warbler	<i>Leiothlypis peregrina</i>			X		X	X	X	X
Orange-crowned Warbler	<i>Leiothlypis celata</i>			X		X	X	X	
Nashville Warbler	<i>Leiothlypis ruficapilla</i>					X	X	X	
Connecticut Warbler	<i>Oporornis agilis</i>	Species of Greatest Conservation Need				X			
Mourning Warbler	<i>Geothlypis philadelphia</i>					X			
Common Yellowthroat	<i>Geothlypis trichas</i>			X		X	X	X	
Hooded Warbler	<i>Setophaga citrina</i>	Species of Greatest Conservation Need	Threatened				X		
American Redstart	<i>Setophaga ruticilla</i>			X		X	X	X	
Cape May Warbler	<i>Setophaga tigrina</i>					X			
Cerulean Warbler	<i>Setophaga cerulea</i>	Species of Greatest Conservation Need	Threatened			X			
Northern Parula	<i>Setophaga americana</i>					X	X	X	
Magnolia Warbler	<i>Setophaga magnolia</i>					X		X	



Common Name	Scientific Name	Wisconsin Wildlife Action Plan Status	Wisconsin Status	Babcock Conservancy	Grand View Conservancy	Indian Mound/Thrun Marsh Conservancies	Marsh Woods Conservancy	Urso Park	Yahara River Conservancy
Bay-breasted Warbler	<i>Setophaga castanea</i>					X	X	X	
Blackburnian Warbler	<i>Setophaga fusca</i>					X	X	X	
Yellow Warbler	<i>Setophaga petechia</i>			X		X	X	X	X
Chestnut-sided Warbler	<i>Setophaga pensylvanica</i>					X	X	X	
Blackpoll Warbler	<i>Setophaga striata</i>					X	X		
Black-throated Blue Warbler	<i>Setophaga caerulescens</i>					X	X		
Palm Warbler	<i>Setophaga palmarum</i>			X		X	X	X	
Pine Warbler	<i>Setophaga pinus</i>			X		X	X		
Yellow-rumped Warbler	<i>Setophaga coronata</i>			X		X	X	X	
Black-throated Green Warbler	<i>Setophaga virens</i>			X		X	X	X	
Canada Warbler	<i>Cardellina canadensis</i>					X		X	
Wilson's Warbler	<i>Cardellina pusilla</i>					X	X	X	
Cardinals, Grosbeaks, and Allies									
Summer Tanager	<i>Piranga rubra</i>					X			
Scarlet Tanager	<i>Piranga olivacea</i>			X		X	X	X	
Northern Cardinal	<i>Cardinalis cardinalis</i>			X	X	X	X	X	X
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>			X		X	X	X	X
Indigo Bunting	<i>Passerina cyanea</i>			X		X	X	X	

Note: eBird observation data are lacking for Siggelkow Road Park, Taylor Road Conservancy, and Woodland Commons Conservancy.



Appendix D. Percent Cover Data Set



Appendix E. Floristic Quality Assessment Data Set

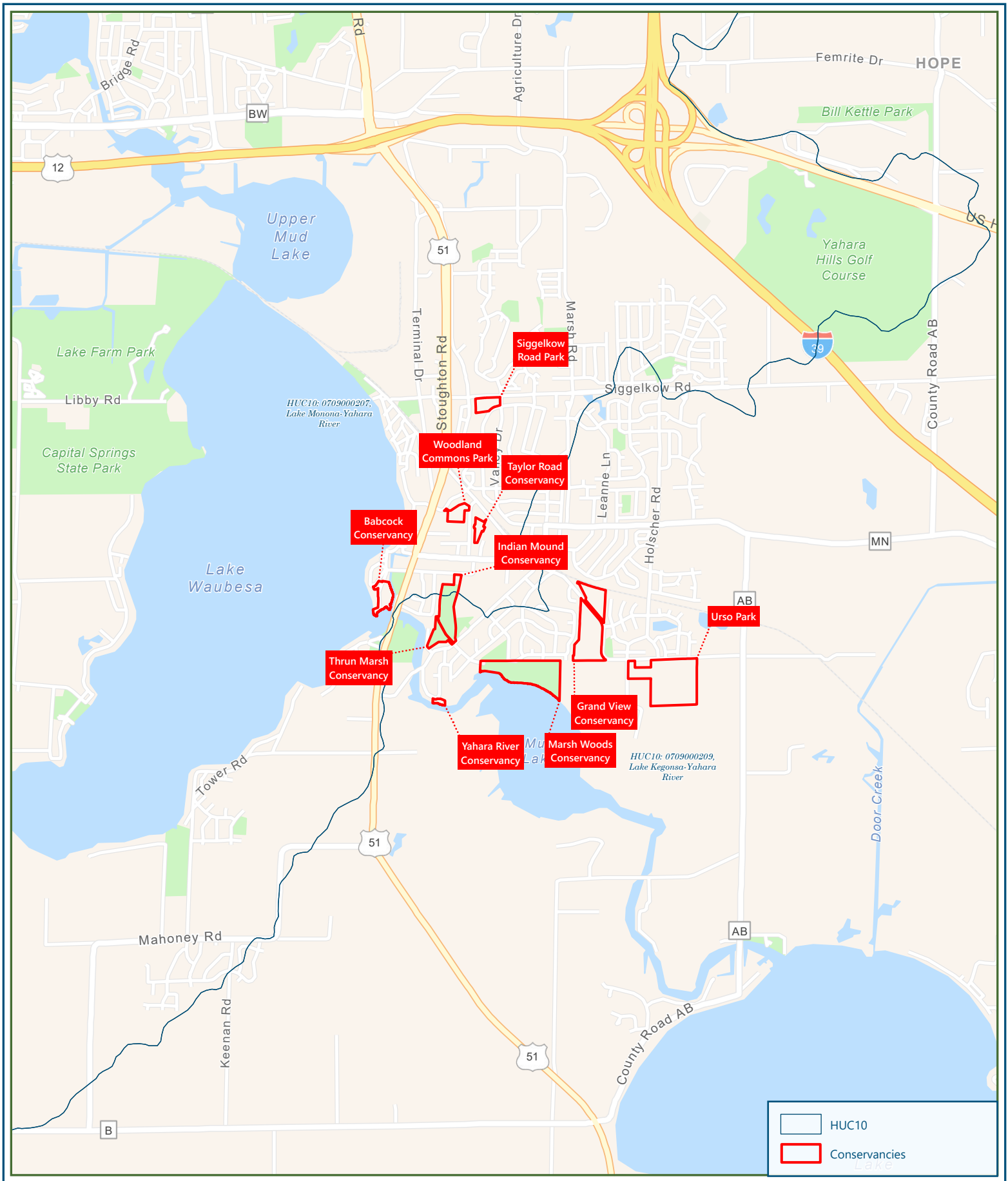
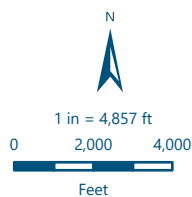


Figure 1
Location Map

**McFarland Conservancy
Management Plan**
Dane Co, WI



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Spatial Reference:
WGS 1984 Web Mercator Auxiliary Sphere
Date Exported: 1/24/2023
Project Number: 106368



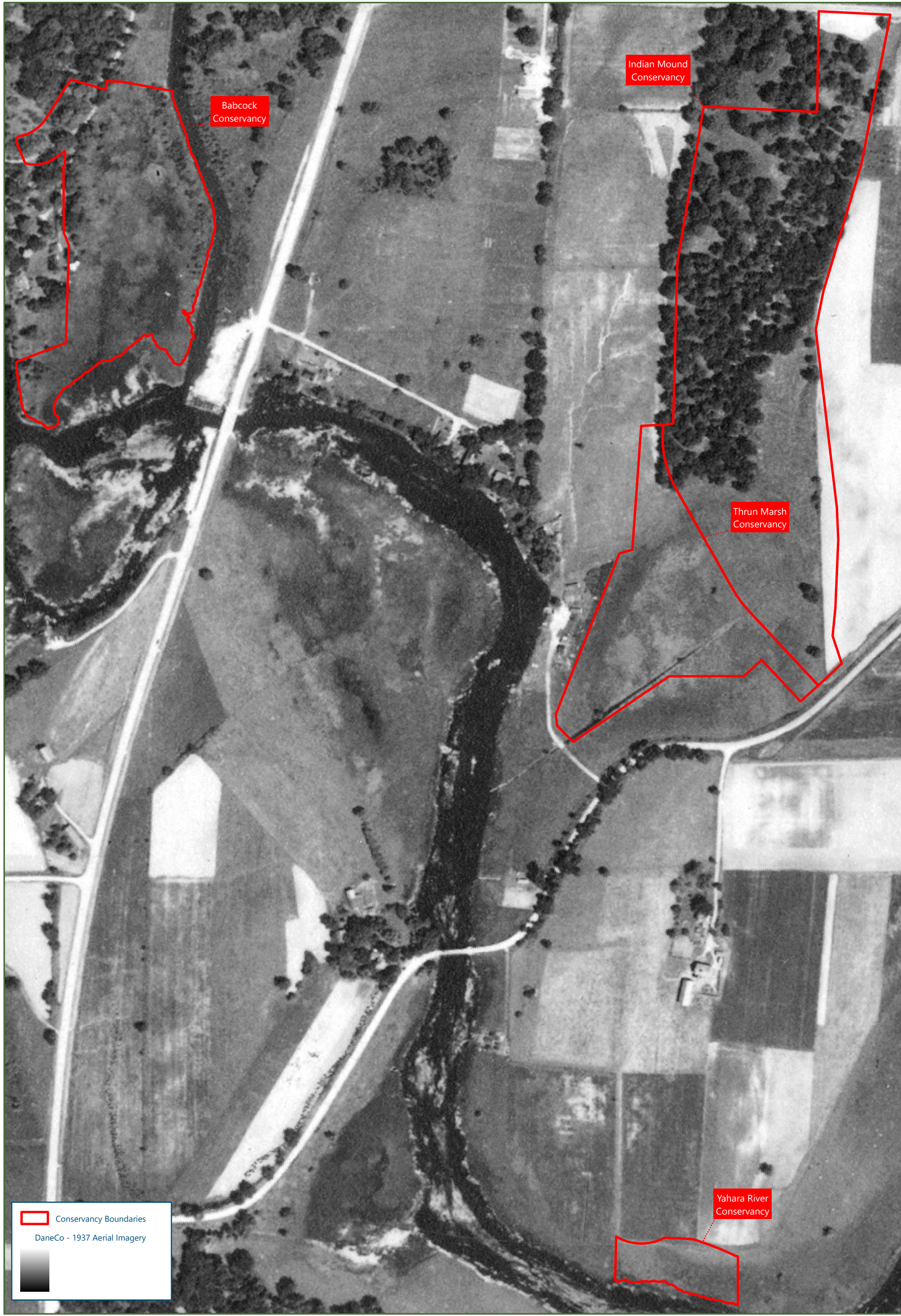
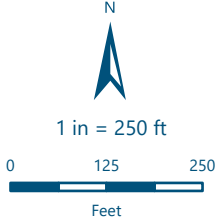


Figure 2a
1937 Aerial Imagery

McFarland Conservancy Management Plan
Dane Co, WI



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Data Source: Wisconsin State Cartographer's Office
Spatial Reference: NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/10/2023
Project Number: 106368

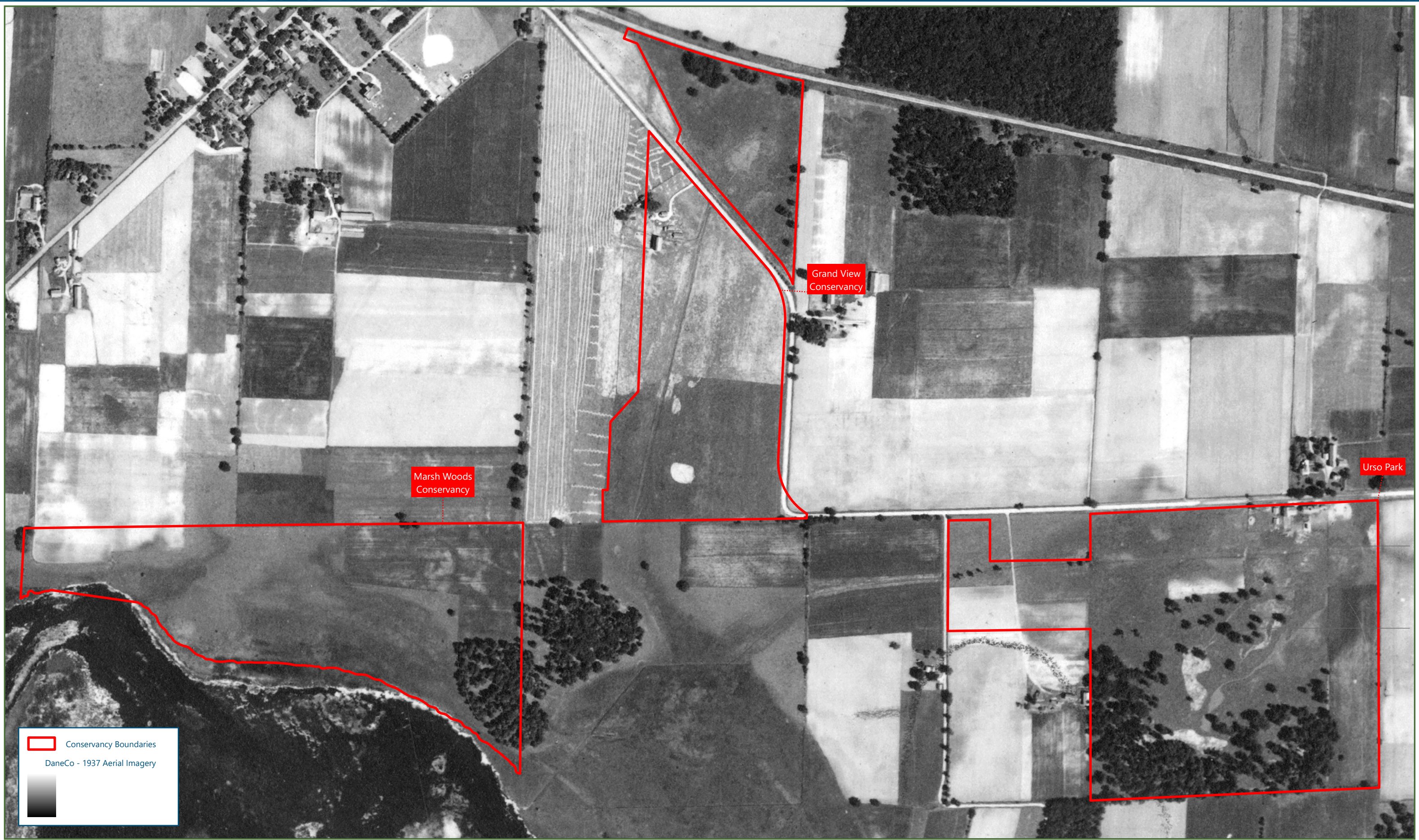


Figure 2b
1937 Aerial Imagery

**McFarland Conservancy
Management Plan**
Dane Co, WI



0 205 410
Feet
1 in = 396 ft

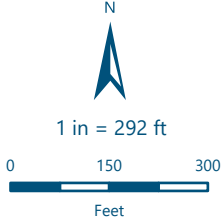
Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: Wisconsin State Cartographer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/10/2023
Project Number: 106368



Figure 2c
1937 Aerial Imagery

McFarland Conservancy Management Plan
Dane Co, WI



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: Wisconsin State Cartographer's Office

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US

Date Exported: 1/10/2023

Project Number: 106368

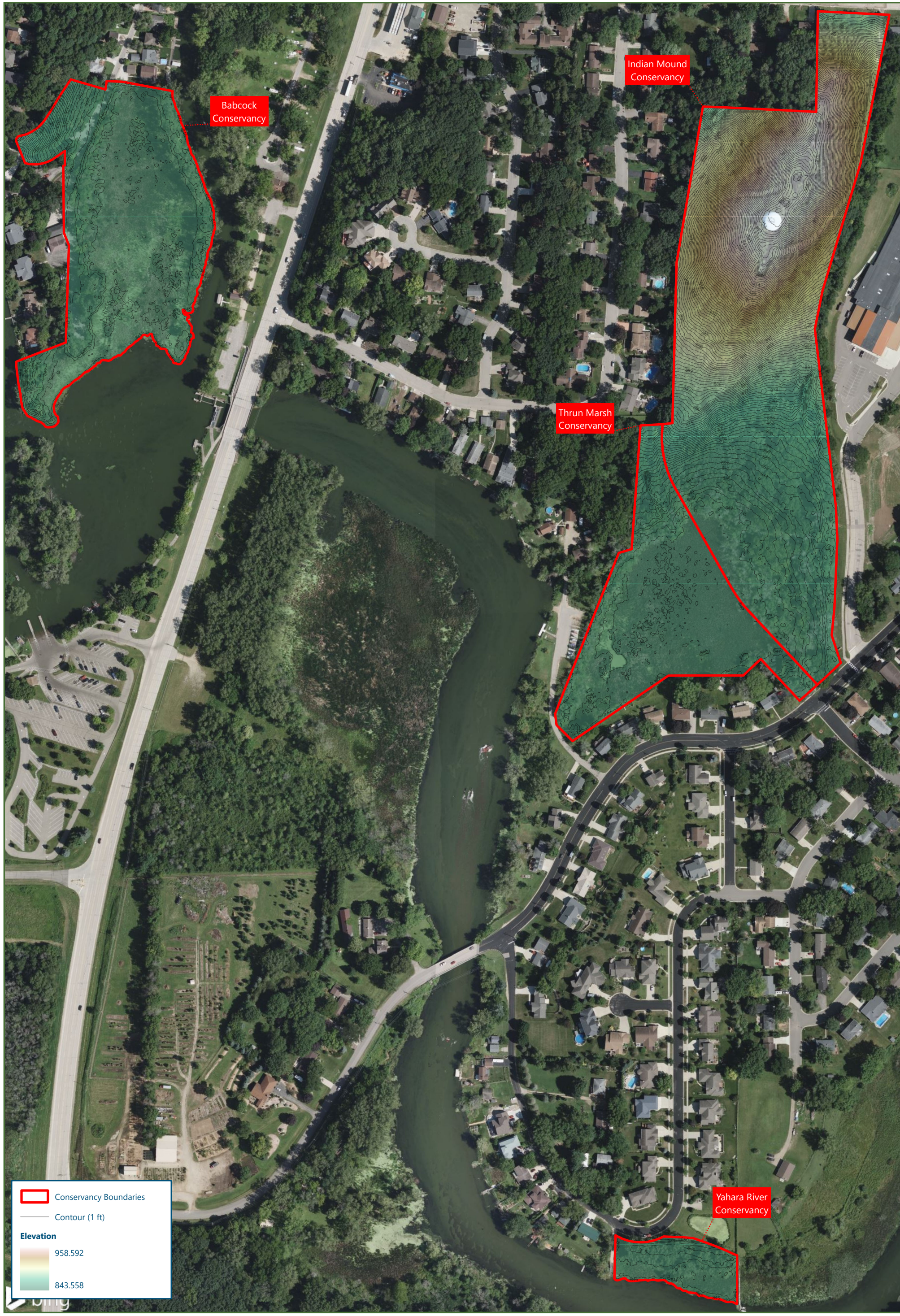
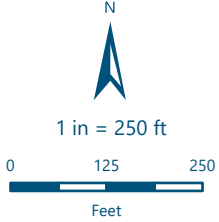


Figure 3a
Topography

McFarland Conservancy
Management Plan
Dane Co, WI



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: Wisconsin State Cartographer's Office

Spatial Reference: NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US

Date Exported: 1/25/2023

Project Number: 106368



Figure 3b
Topography

McFarland Conservancy
Management Plan
Dane Co, WI



0 205 410
Feet
1 in = 396 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: Wisconsin State Cartographer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

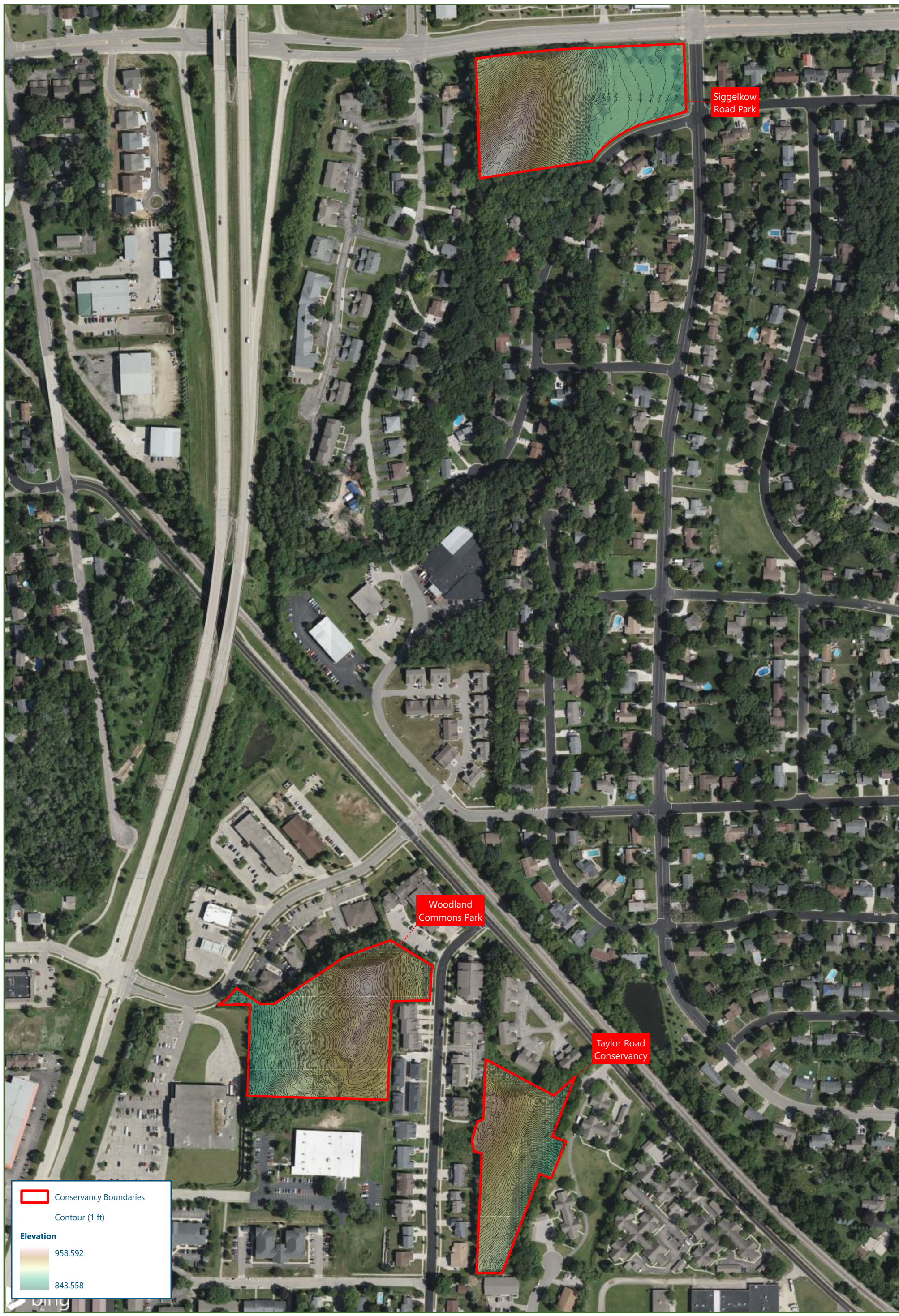
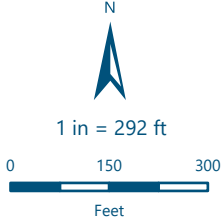


Figure 3c
Topography

McFarland Conservancy Management Plan
Dane Co, WI



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Data Source: Wisconsin State Cartographer's Office
Spatial Reference: NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

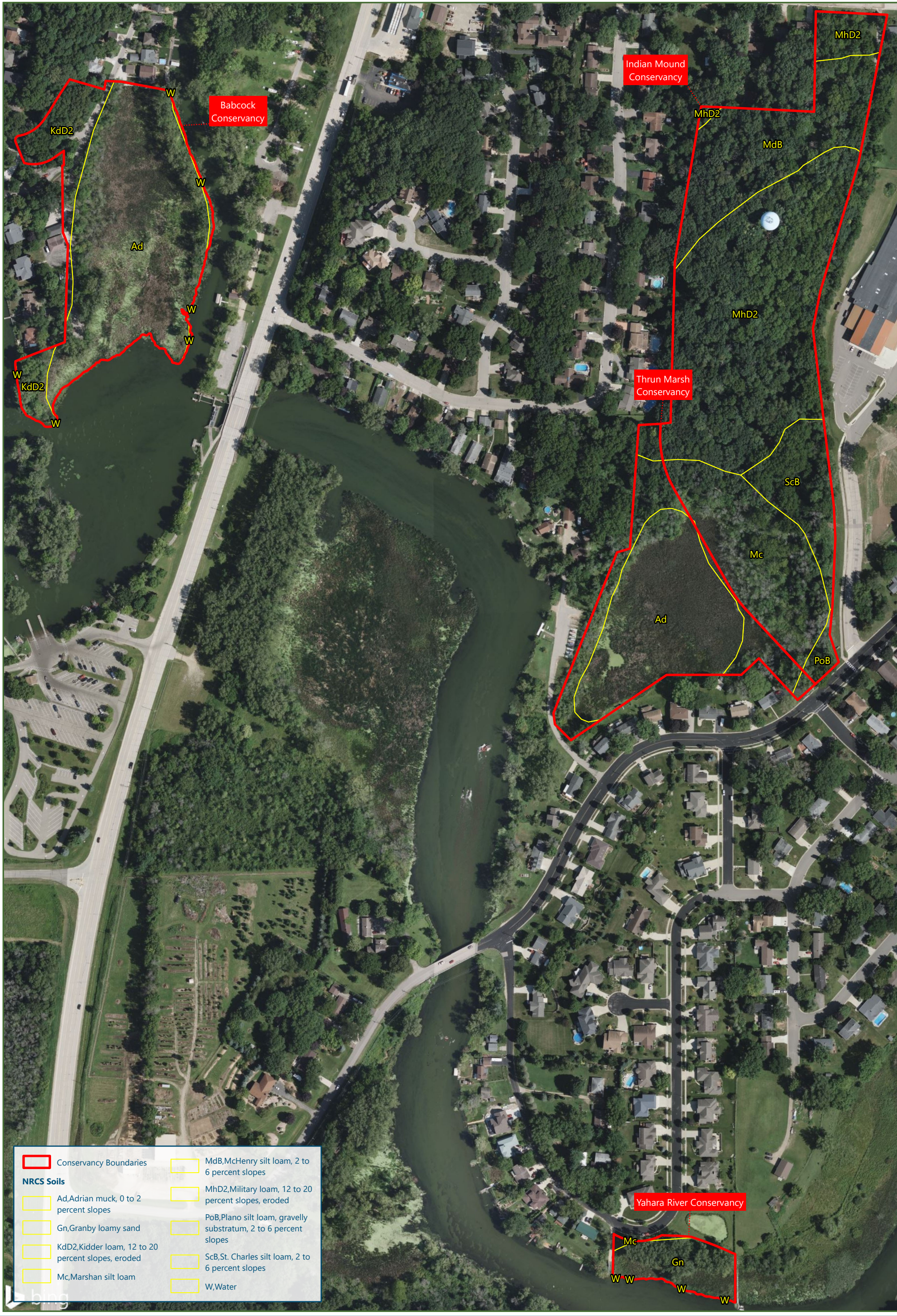
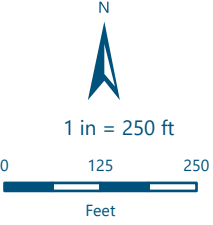


Figure 4a
NRCS Soils

McFarland Conservancy
Management Plan
Dane Co, WI



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

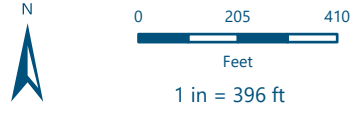
Data Source: NRCS
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/11/2023
Project Number: 106368





Figure 4b
NRCS Soils

McFarland Conservancy
Management Plan
Dane Co, WI



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: Wisconsin State Cartographer's Office
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/11/2023
Project Number: 106368

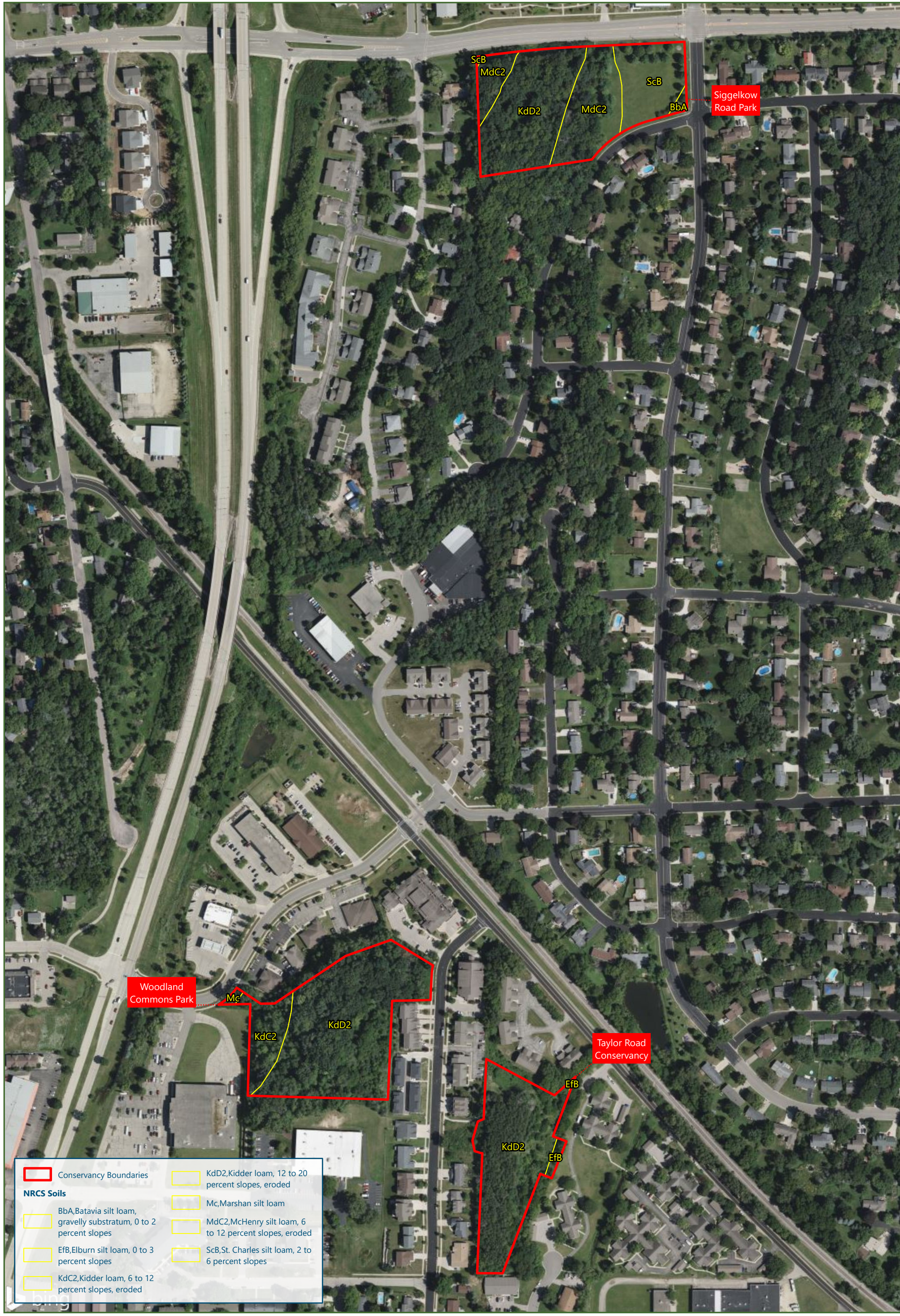
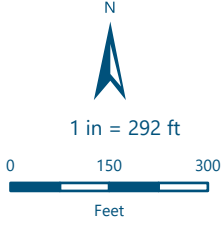


Figure 4c
NRCS Soils

McFarland Conservancy Management Plan
Dane Co, WI



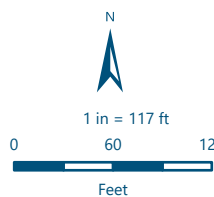
Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Data Source: NRCS
Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/11/2023
Project Number: 106368



Figure 5a
Existing Plant Communities

Babcock Conservancy



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368

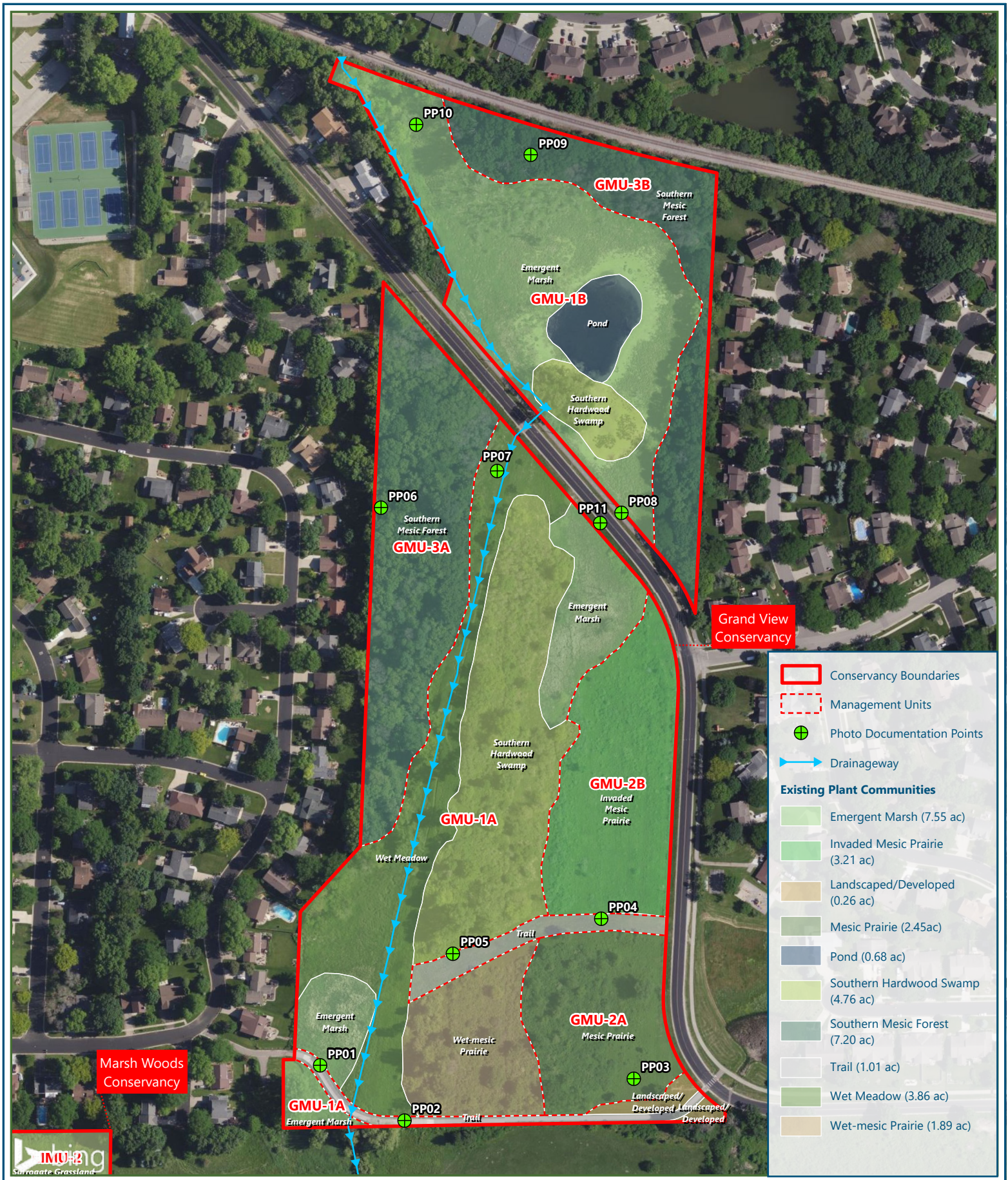
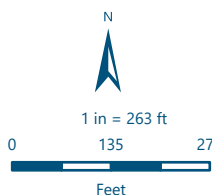


Figure 5b
Existing Plant Communities

Grand View Conservancy



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368

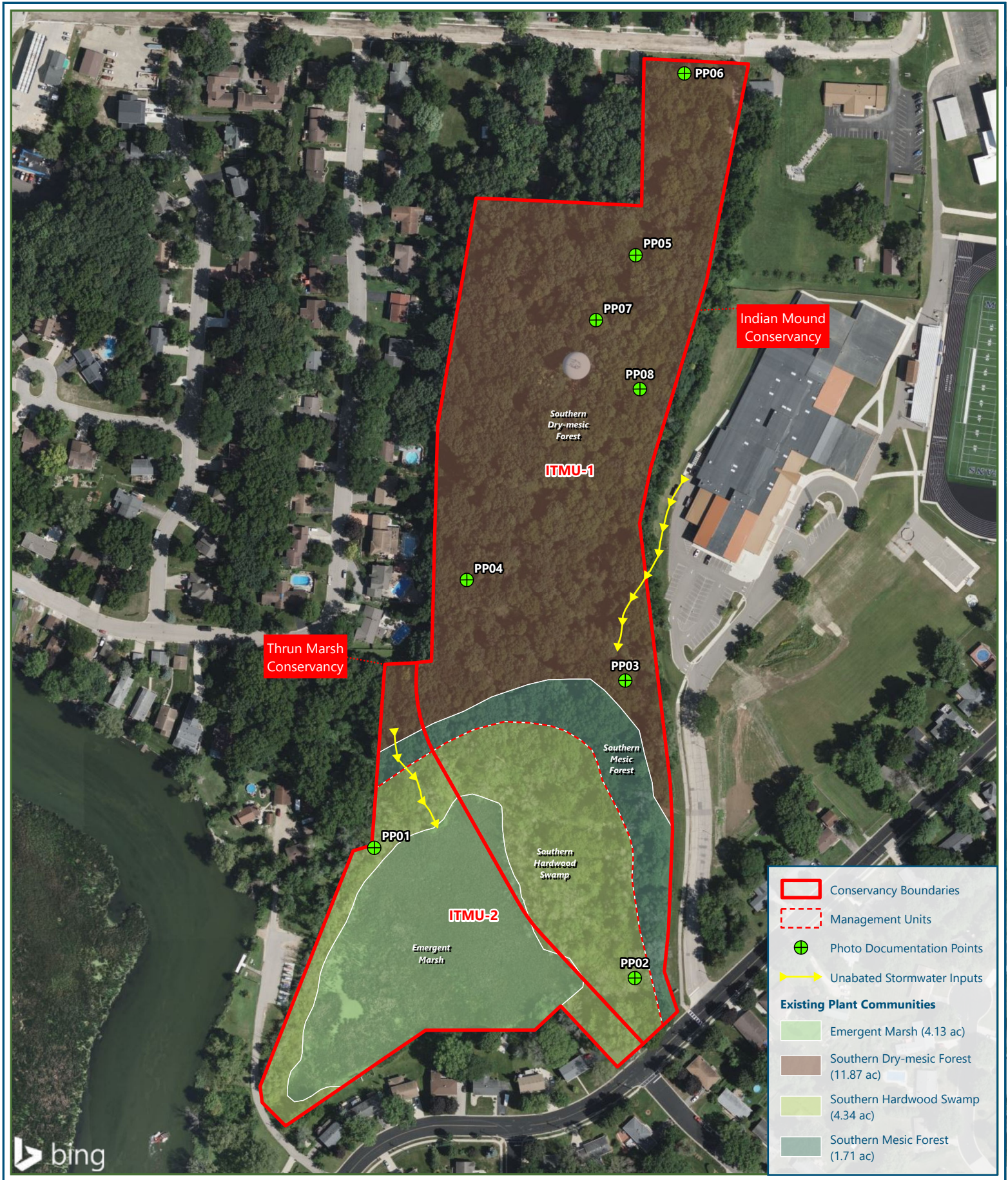
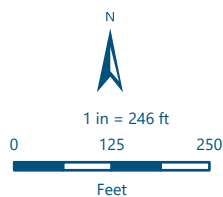


Figure 5c
Existing Plant Communities

Indian Mound & Thrun Marsh
Conservancy



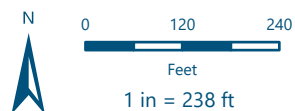
Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368



Figure 5d
Existing Plant Communities

Marsh Woods Conservancy

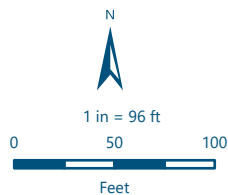


Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Spatial Reference: NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368



Figure 5e
Existing Plant Communities

Siggelkow Road Park



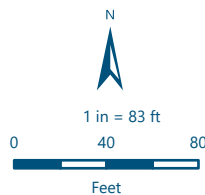
Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368



Figure 5f
Existing Plant Communities

Taylor Road Conservancy



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368

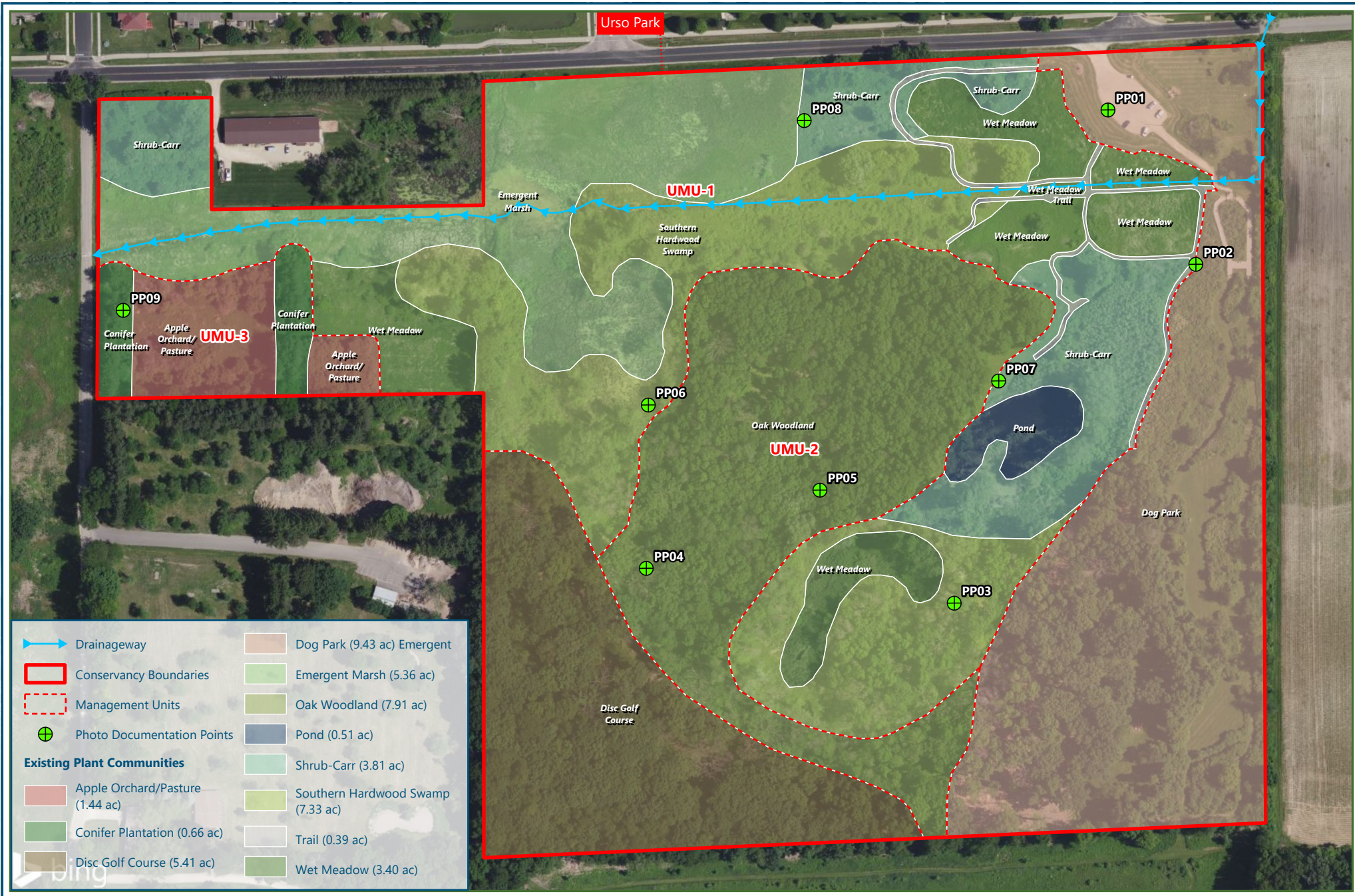
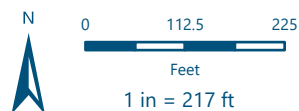


Figure 5g
Existing Plant Communities

Urso Park

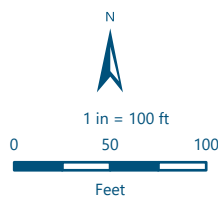


Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Spatial Reference: NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368



Figure 5h
Existing Plant Communities

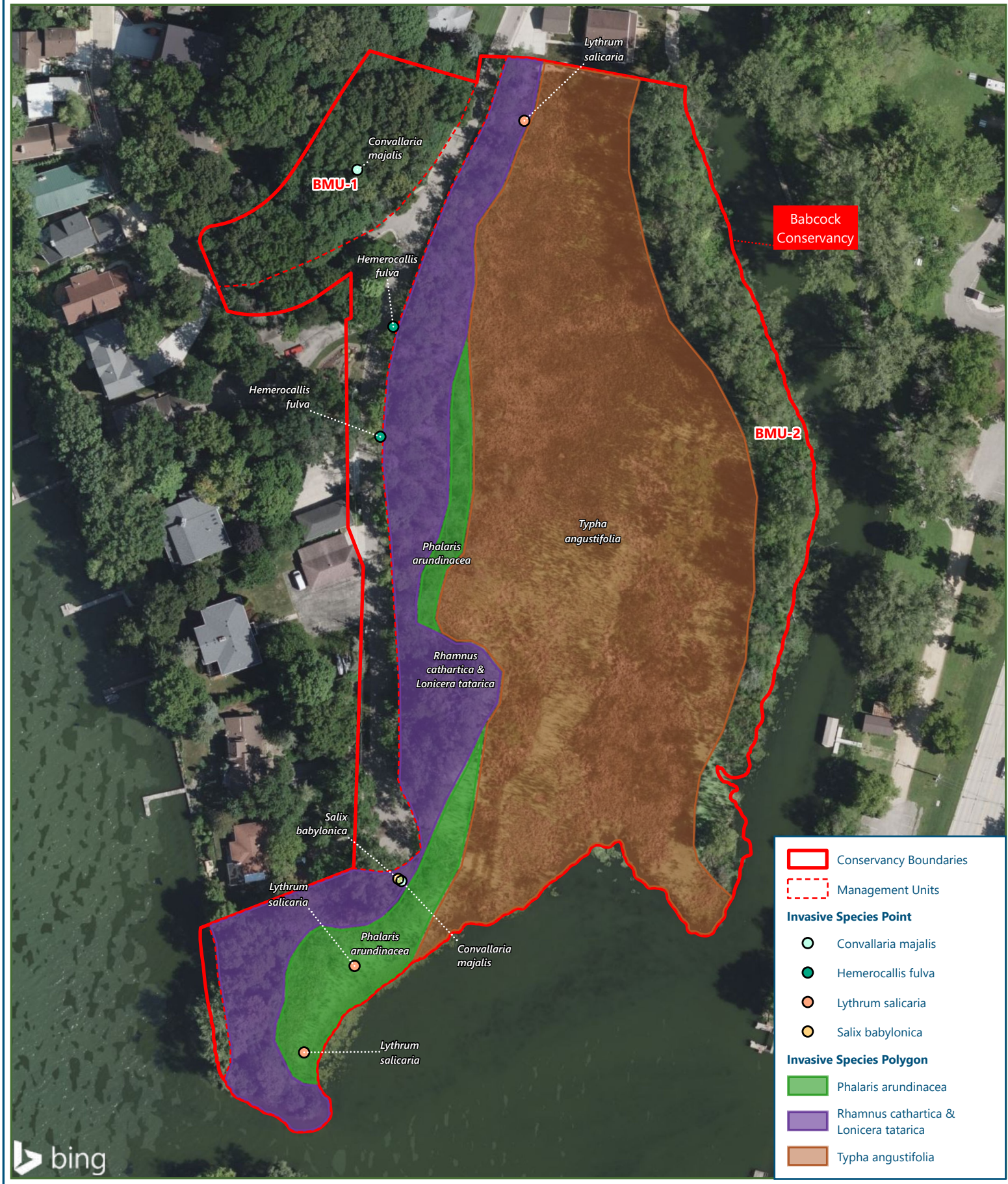
Woodland Commons Park



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 6/2/2023
Project Number: 106368





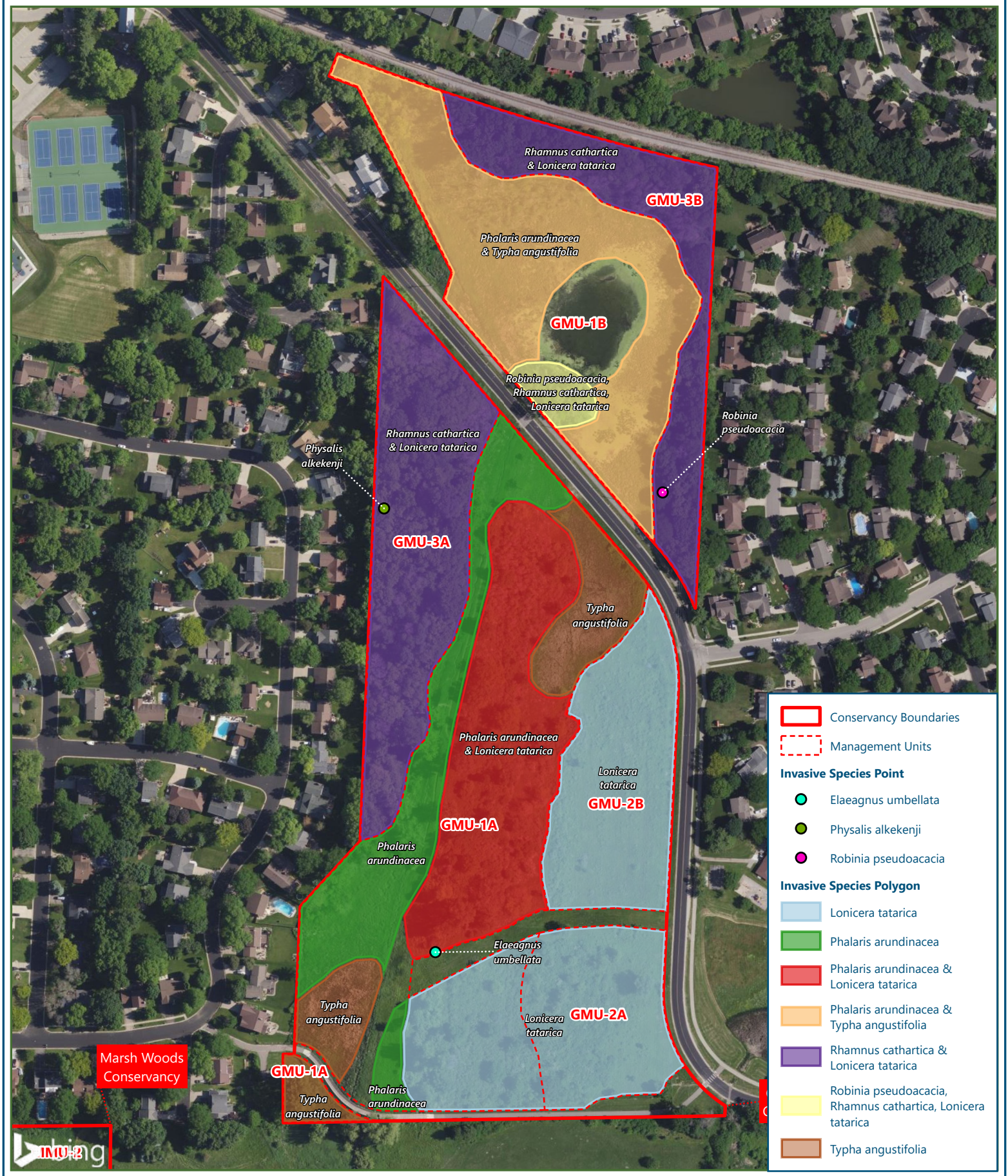
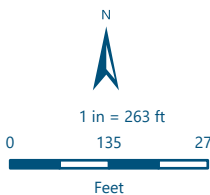


Figure 6b
Invasive Species

Grand View Conservancy



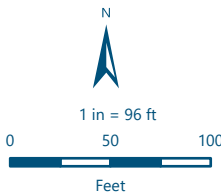
Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368



Figure 6e
Invasive Species

Siggelkow Road Park



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

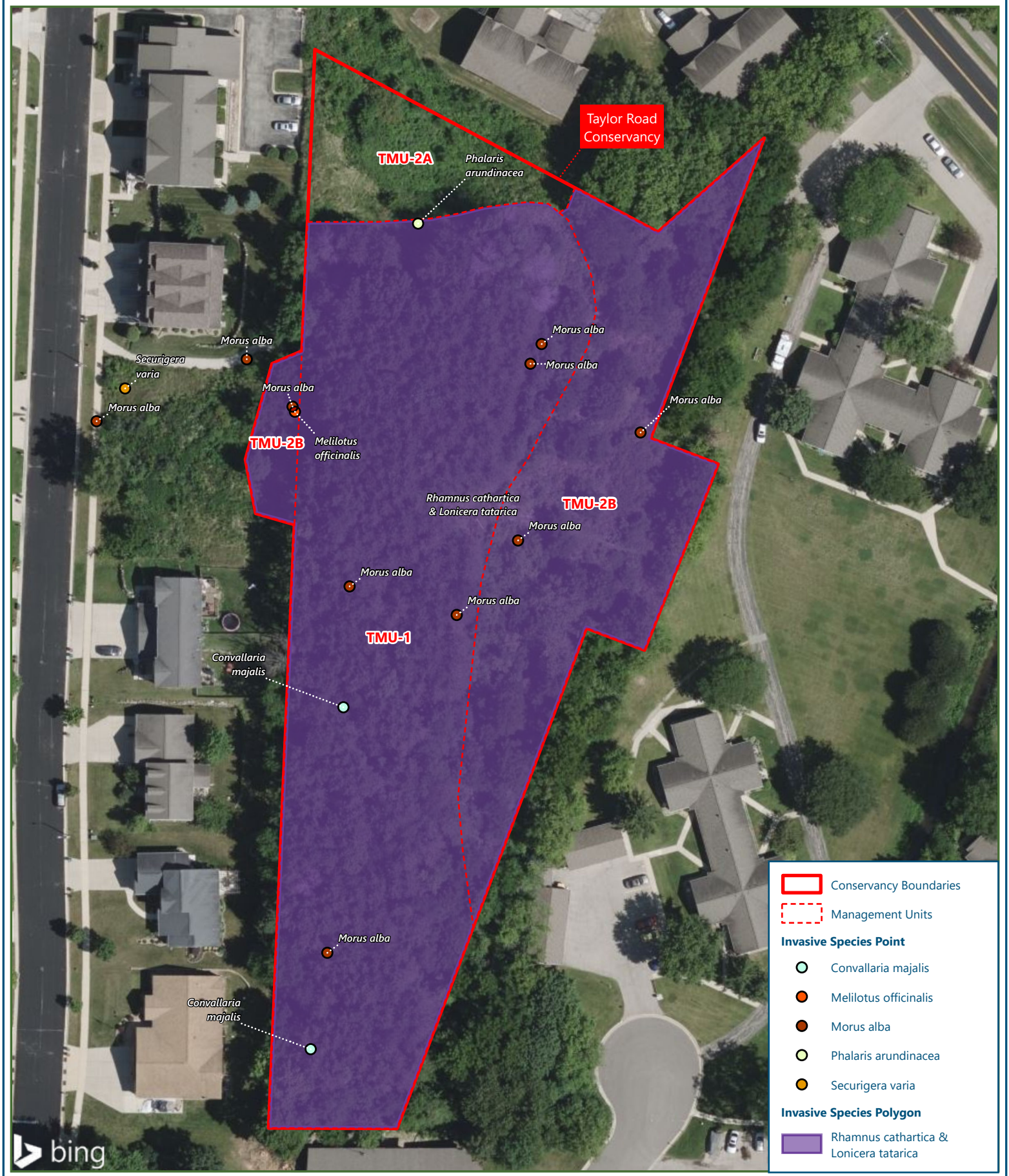
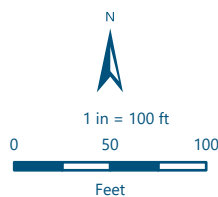






Figure 6h
Invasive Species

Woodland Commons Park



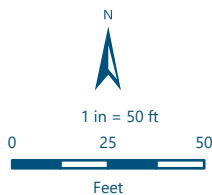
Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368



Figure 6i
Invasive Species

Yahara River Conservancy



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

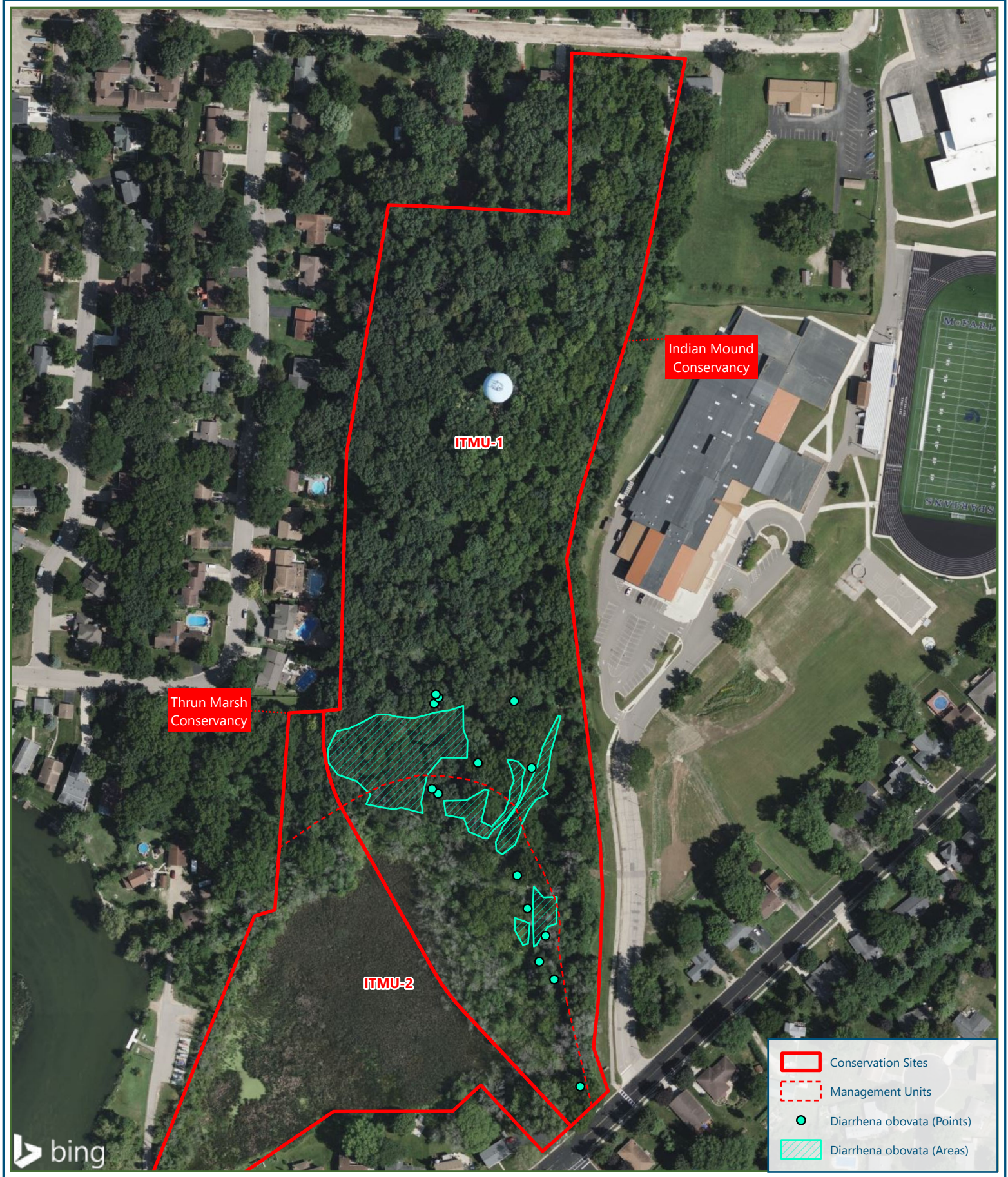
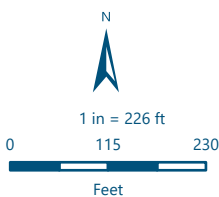


Figure 7
Rare Plants

Indian Mound Conservancy



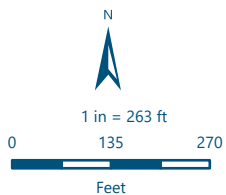
Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/11/2023
Project Number: 106368



Figure 8b
Proposed Plant Communities

Grand View Conservancy



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

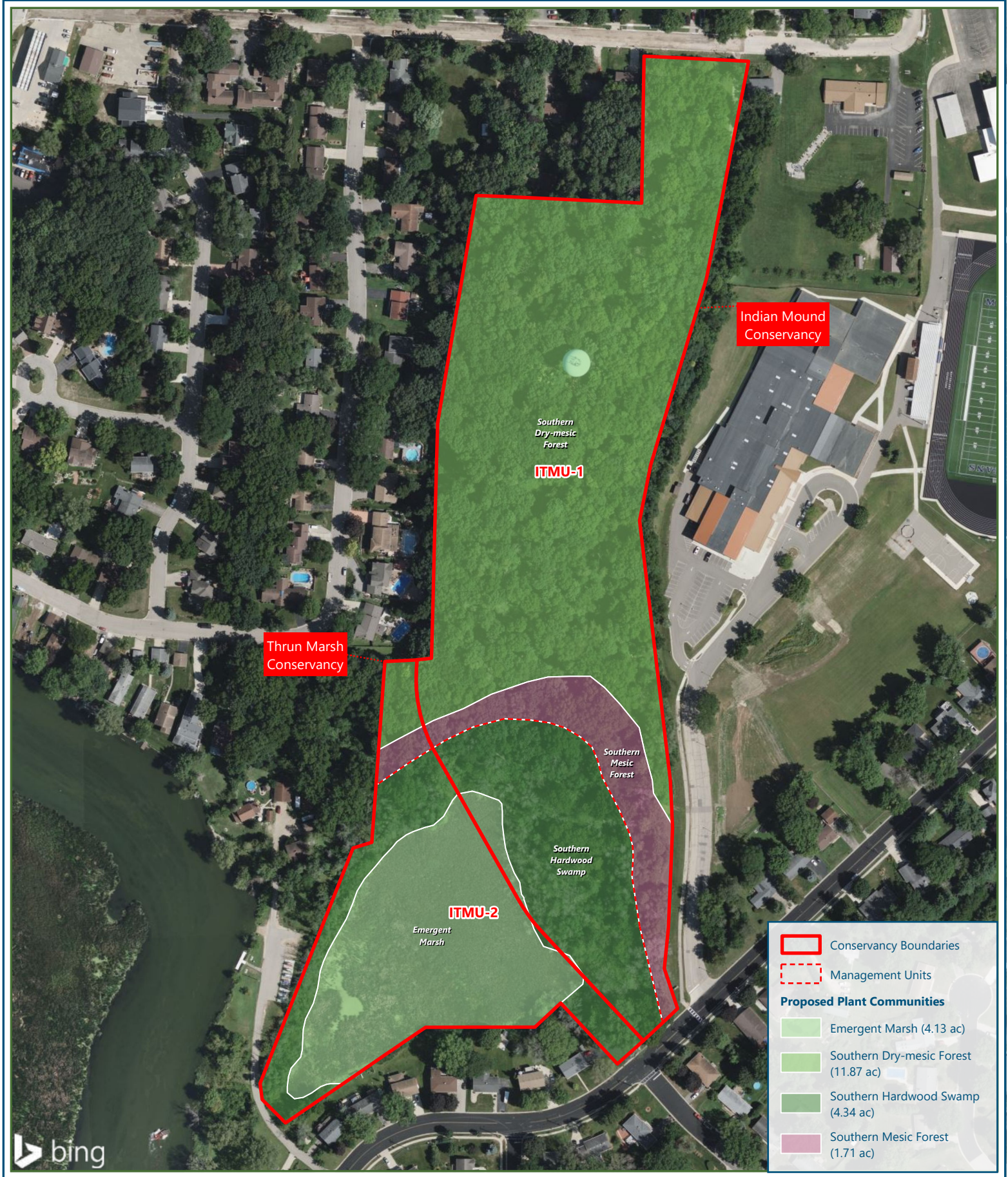
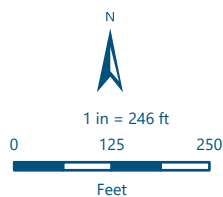


Figure 8c
Proposed Plant Communities

Indian Mound & Thrun Marsh
Conservancy



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368



Figure 8d
Proposed Plant Communities

Marsh Woods Conservancy

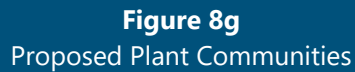


0 120 240
Feet
1 in = 238 ft

Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.
Spatial Reference: NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368







N

0 112.5 225

Feet

1 in = 217 ft

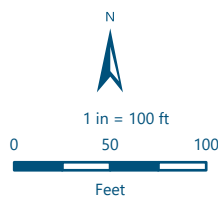


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Figure 8h
Proposed Plant Communities

Woodland Commons Park



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Spatial Reference:
NAD 1983 2011 StatePlane Wisconsin South FIPS 4803 Ft US
Date Exported: 1/25/2023
Project Number: 106368

BMU-1 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer saccharum</i>	Native		50	15		10	75
<i>Arisaema triphyllum</i>	Native					4	4
<i>Celtis occidentalis</i>	Native		25	1		1	27
<i>Circaea canadensis</i>	Native					2	2
<i>Convallaria majalis</i>	Introduced	Non-Restricted				3	3
<i>Fraxinus pennsylvanica</i>	Native			1		1	2
<i>Maianthemum racemosum</i>	Native					7	7
<i>Podophyllum peltatum</i>	Native					2	2
<i>Prunus serotina</i>	Native					1	1
<i>Tilia americana</i>	Native		25				25
<i>Viburnum opulus</i>	Introduced	Non-Restricted		1			1

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	100	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	100	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	17	94
Non-native Cover Subtotal	1	6
Total Cover Subtotal	18	100
Invasive Cover Subtotal	0	0
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	28	90
Non-native Cover Subtotal	3	10
Total Cover Subtotal	31	100
Invasive Cover Subtotal	0	0
Grand Total		
Native Cover Grand Total	145	97
Non-native Cover Grand Total	4	3
Total Cover Grand Total	149	100
Invasive Cover Grand Total	0	0

BMU-2 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		7	2			9
<i>Acorus americanus</i>	Native					<1	<1
<i>Ageratina altissima</i>	Native					1	1
<i>Agrimonia gryposepala</i>	Native					<1	<1
<i>Ambrosia trifida</i>	Native					1	1
<i>Apocynum cannabinum</i>	Native					1	1
<i>Arctium lappa</i>	Introduced					1	1
<i>Asclepias incarnata</i>	Native					<1	<1
<i>Bidens frondosa</i>	Native					<1	<1
<i>Carex bebbii</i>	Native					1	1
<i>Carex debilis</i>	Native					<1	<1
<i>Carex lacustris</i>	Native					1	1
<i>Catalpa speciosa</i>	Introduced		1				1
<i>Celtis occidentalis</i>	Native		3				3
<i>Cicuta bulbifera</i>	Native					<1	<1
<i>Cicuta maculata</i>	Native					<1	<1
<i>Circaea canadensis</i>	Native					1	1
<i>Cirsium arvense</i>	Introduced	Restricted				1	1
<i>Cirsium discolor</i>	Native					<1	<1
<i>Cirsium vulgare</i>	Introduced					<1	<1
<i>Commelina communis</i>	Introduced					<1	<1
<i>Convallaria majalis</i>	Introduced	Non-Restricted				1	1
<i>Cornus amomum</i>	Native			<1			<1
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Eleocharis palustris</i>	Native					<1	<1
<i>Erechtites hieracifolius</i>	Native					1	1
<i>Erigeron annuus</i>	Native					<1	<1
<i>Eupatorium perfoliatum</i>	Native					2	2
<i>Fraxinus americana</i>	Native		1				1
<i>Fraxinus pennsylvanica</i>	Native			3			3
<i>Galium trifidum</i>	Native					<1	<1
<i>Geum canadense</i>	Native					1	1
<i>Glyceria striata</i>	Native					1	1
<i>Hemerocallis fulva</i>	Introduced	Caution				2	2
<i>Impatiens capensis</i>	Native					5	5
<i>Juglans nigra</i>	Native		1	<1			1
<i>Leersia oryzoides</i>	Native					2	2
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Lycopus americanus</i>	Native					1	1
<i>Lysimachia ciliata</i>	Native					<1	<1
<i>Lythrum salicaria</i>	Introduced	Restricted				1	1
<i>Maianthemum racemosum</i>	Native					<1	<1
<i>Mentha canadensis</i>	Native					1	1
<i>Mimulus ringens</i>	Native					2	2
<i>Monarda fistulosa</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native					2	2
<i>Pastinaca sativa</i>	Introduced	Restricted				<1	<1
<i>Persicaria amphibia</i>	Native					5	5
<i>Persicaria hydropiper</i>	Introduced					5	5
<i>Persicaria lapathifolia</i>	Native					1	1
<i>Persicaria maculosa</i>	Introduced					5	5
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				5	5
<i>Pilea pumila</i>	Native					5	5
<i>Populus deltoides</i>	Native		5				5
<i>Quercus bicolor</i>	Native		1				1
<i>Ranunculus recurvatus</i>	Native					<1	<1
<i>Ranunculus sceleratus</i>	Native					<1	<1
<i>Rhamnus cathartica</i>	Introduced	Restricted		4			4
<i>Ribes americanum</i>	Native					4	4
<i>Sagittaria latifolia</i>	Native					1	1
<i>Salix bebbiana</i>	Native		1				1
<i>Salix nigra</i>	Native		1				1
<i>Sanicula odorata</i>	Native					1	1
<i>Schoenoplectus tabernaemontani</i>	Native					2	2
<i>Scirpus atrovirens</i>	Native					1	1
<i>Solanum dulcamara</i>	Introduced					3	3
<i>Solidago canadensis</i>	Native					<1	<1
<i>Symphotrichum lateriflorum</i>	Native					<1	<1
<i>Tilia americana</i>	Native		3	<1			3
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				1	1
<i>Typha angustifolia</i>	Introduced	Restricted				60	60
<i>Ulmus americana</i>	Native		1				1
<i>Urtica dioica</i>	Native					1	1
<i>Verbena hastata</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2			2
<i>Viola sororia</i>	Native					<1	<1
<i>Vitis aestivalis</i>	Native				1		1
<i>Vitis riparia</i>	Native				3		3

Total % Cover	
Summarized	Absolute Cover Relative Cover
Tree	
Native Cover Subtotal	24 96
Non-native Cover Subtotal	1 4
Total Cover Subtotal	25 100
Invasive Cover Subtotal	0 0
Sapling/Shrub	
Native Cover Subtotal	5 31
Non-native Cover Subtotal	11 69
Total Cover Subtotal	16 100
Invasive Cover Subtotal	9 56
Vine	
Native Cover Subtotal	4 100
Non-native Cover Subtotal	0 0
Total Cover Subtotal	4 100
Invasive Cover Subtotal	0 0
Herb	
Native Cover Subtotal	47 35
Non-native Cover Subtotal	86 65
Total Cover Subtotal	133 100
Invasive Cover Subtotal	68 51
Grand Total	
Native Cover Grand Total	80 45
Non-native Cover Grand Total	98 55
Total Cover Grand Total	178 100
Invasive Cover Grand Total	77 43

GMU-1A (Emergent Marsh - Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Carex stricta</i>	Native					1	1
<i>Eupatorium perfoliatum</i>	Native					1	1
<i>Eutrochium maculatum</i>	Native					3	3
<i>Filipendula rubra</i>	Introduced					1	1
<i>Hemerocallis fulva</i>	Introduced	Caution				1	1
<i>Impatiens capensis</i>	Native					1	1
<i>Iris virginica</i>	Native					1	1
<i>Leersia oryzoides</i>	Native					2	2
<i>Lonicera tatarica</i>	Introduced	Restricted		2			2
<i>Onoclea sensibilis</i>	Native					1	1
<i>Persicaria amphibia</i>	Native					1	1
<i>Persicaria sagittata</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				35	35
<i>Pilea pumila</i>	Native					1	1
<i>Poa palustris</i>	Native					1	1
<i>Rumex verticillatus</i>	Native					1	1
<i>Scirpus atrovirens</i>	Native					1	1
<i>Solanum dulcamara</i>	Introduced					1	1
<i>Symphotrichum firmum</i>	Native					5	5
<i>Typha angustifolia</i>	Introduced	Restricted				40	40
<i>Typha latifolia</i>	Native					20	20
<i>Urtica dioica</i>	Native					1	1

Summarized		Total % Cover	
		Absolute Cover	Relative Cover
Tree			
Native Cover Subtotal		0	0
Non-native Cover Subtotal		0	0
Total Cover Subtotal		0	0
Invasive Cover Subtotal		0	0
Sapling/Shrub			
Native Cover Subtotal		0	0
Non-native Cover Subtotal		2	100
Total Cover Subtotal		2	100
Invasive Cover Subtotal		2	100
Vine			
Native Cover Subtotal		0	0
Non-native Cover Subtotal		0	0
Total Cover Subtotal		0	0
Invasive Cover Subtotal		0	0
Herb			
Native Cover Subtotal		42	35
Non-native Cover Subtotal		78	65
Total Cover Subtotal		120	100
Invasive Cover Subtotal		75	63
Grand Total			
Native Cover Grand Total		42	34
Non-native Cover Grand Total		80	66
Total Cover Grand Total		122	100
Invasive Cover Grand Total		77	63

GMU-1A (Southern Hardwood Swamp - Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer saccharinum</i>	Native		30				30
<i>Achillea millefolium</i>	Native					2	2
<i>Agrostis gigantea</i>	Introduced					5	5
<i>Andropogon gerardii</i>	Native					1	1
<i>Apocynum cannabinum</i>	Native					1	1
<i>Asclepias syriaca</i>	Native					1	1
<i>Carex bebbii</i>	Native					1	1
<i>Carex pellita</i>	Native					2	2
<i>Carex vulpinoidea</i>	Native					3	3
<i>Cirsium arvense</i>	Introduced	Restricted				2	2
<i>Cornus foemina</i>	Native			2			2
<i>Cornus sericea</i>	Native			1			1
<i>Equisetum arvense</i>	Native					2	2
<i>Erigeron annuus</i>	Native					1	1
<i>Eutrochium maculatum</i>	Native					1	1
<i>Galium aparine</i>	Native					1	1
<i>Helianthus grosseserratus</i>	Native					3	3
<i>Juncus dudleyi</i>	Native					3	3
<i>Juniperus virginiana</i>	Native		1				1
<i>Lilium michiganense</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		10			10
<i>Lycopus americanus</i>	Native					1	1
<i>Malus pumila</i>	Introduced		1				1
<i>Monarda fistulosa</i>	Native					2	2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				45	45
<i>Populus deltoides</i>	Native		15				15
<i>Pycnanthemum virginianum</i>	Native					5	5
<i>Rhamnus cathartica</i>	Introduced	Restricted				3	3
<i>Ribes americanum</i>	Native			1			1
<i>Rosa multiflora</i>	Introduced	Restricted		3			3
<i>Salix discolor</i>	Native		1	5			6
<i>Salix interior</i>	Native			2			2
<i>Salix nigra</i>	Native		10				10
<i>Scirpus atrovirens</i>	Native					2	2
<i>Solidago canadensis</i>	Native					4	4
<i>Solidago gigantea</i>	Native					4	4
<i>Stachys palustris</i>	Native					1	1
<i>Symphotrichum firmum</i>	Native					2	2
<i>Vitis riparia</i>	Native				5		5

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	57	98
Non-native Cover Subtotal	1	2
Total Cover Subtotal	58	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	11	46
Non-native Cover Subtotal	13	54
Total Cover Subtotal	24	100
Invasive Cover Subtotal	13	54
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	44	44
Non-native Cover Subtotal	55	56
Total Cover Subtotal	99	100
Invasive Cover Subtotal	50	51
Grand Total		
Native Cover Grand Total	117	63
Non-native Cover Grand Total	69	37
Total Cover Grand Total	186	100
Invasive Cover Grand Total	63	34

GMU-1A (Wet Meadow - Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Achillea millefolium</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Ambrosia artemisiifolia</i>	Native					1	1
<i>Andropogon gerardii</i>	Native					1	1
<i>Asclepias incarnata</i>	Native					1	1
<i>Asclepias syriaca</i>	Native					1	1
<i>Bromus inermis</i>	Introduced	Non-Restricted				1	1
<i>Calamagrostis canadensis</i>	Native					1	1
<i>Carex cristatella</i>	Native					1	1
<i>Carex molesta</i>	Native					1	1
<i>Carex pellita</i>	Native					5	5
<i>Carex rosea</i>	Native					1	1
<i>Carex stricta</i>	Native					20	20
<i>Carex vulpinoidea</i>	Native					1	1
<i>Circaea canadensis</i>	Native					1	1
<i>Cirsium vulgare</i>	Introduced					1	1
<i>Conyza canadensis</i>	Native					1	1
<i>Cornus foemina</i>	Native			5			5
<i>Cornus sericea</i>	Native			2			2
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Elaeagnus umbellata</i>	Introduced	Restricted				1	1
<i>Equisetum arvense</i>	Native					1	1
<i>Erechtites hieracifolius</i>	Native					1	1
<i>Eupatorium perfoliatum</i>	Native					1	1
<i>Eutrochium maculatum</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native					1	1
<i>Fragaria virginiana</i>	Native					1	1
<i>Gentiana alba</i>	Native					1	1
<i>Geum canadense</i>	Native					1	1
<i>Helianthus grosseserratus</i>	Native					6	6
<i>Juncus dudleyi</i>	Native					1	1
<i>Lilium michiganense</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted				20	20
<i>Lycopus americanus</i>	Native					1	1
<i>Lysimachia nummularia</i>	Introduced	Restricted				1	1
<i>Medicago lupulina</i>	Introduced					1	1
<i>Monarda fistulosa</i>	Native					1	1
<i>Muhlenbergia mexicana</i>	Native					1	1
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native					1	1
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				30	30
<i>Poa palustris</i>	Native					1	1
<i>Poa pratensis</i>	Introduced					1	1
<i>Podophyllum peltatum</i>	Native					1	1
<i>Populus deltoides</i>	Native					1	1
<i>Prunella vulgaris</i>	Native					1	1
<i>Pycnanthemum virginianum</i>	Native					2	2
<i>Rhamnus cathartica</i>	Introduced	Restricted		5			5
<i>Ribes americanum</i>	Native			1			1
<i>Rosa multiflora</i>	Introduced	Restricted		1			1
<i>Rubus allegheniensis</i>	Native			1			1
<i>Scirpus atrovirens</i>	Native					1	1
<i>Solidago canadensis</i>	Native					2	2
<i>Solidago gigantea</i>	Native					4	4
<i>Spartina pectinata</i>	Native					2	2
<i>Symphyotrichum firmum</i>	Native					1	1
<i>Symphyotrichum lanceolatum</i>	Native					1	1
<i>Symphyotrichum lateriflorum</i>	Native					1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Verbena hastata</i>	Native					5	5
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	9	60
Non-native Cover Subtotal	6	40
Total Cover Subtotal	15	100
Invasive Cover Subtotal	6	40
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	83	58
Non-native Cover Subtotal	59	42
Total Cover Subtotal	142	100
Invasive Cover Subtotal	53	37
Grand Total		
Native Cover Grand Total	94	59
Non-native Cover Grand Total	65	41
Total Cover Grand Total	159	100
Invasive Cover Grand Total	59	37

GMU-1B (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer saccharinum</i>	Native		1				1
<i>Alisma subcordatum</i>	Native					3	3
<i>Asclepias incarnata</i>	Native					1	1
<i>Bidens cernua</i>	Native					1	1
<i>Calystegia sepium</i>	Native				1		1
<i>Carex bebbii</i>	Native					2	2
<i>Carex stricta</i>	Native					4	4
<i>Cirsium arvense</i>	Introduced	Restricted				3	3
<i>Echinochloa crus-galli</i>	Introduced					1	1
<i>Echinocystis lobata</i>	Native				1		1
<i>Eleocharis obtusa</i>	Native					2	2
<i>Erechtites hieraciifolius</i>	Native					1	1
<i>Erigeron annuus</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			1			1
<i>Impatiens capensis</i>	Native					3	3
<i>Iris virginica</i>	Native					1	1
<i>Juglans nigra</i>	Native		1				1
<i>Leersia oryzoides</i>	Native					2	2
<i>Persicaria amphibia</i>	Native					4	4
<i>Persicaria hydropiper</i>	Introduced					2	2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				40	40
<i>Pilea pumila</i>	Native					2	2
<i>Populus deltoides</i>	Native		2				2
<i>Robinia pseudoacacia</i>	Introduced	Restricted	1				1
<i>Rubus occidentalis</i>	Native			1			1
<i>Salix discolor</i>	Native			1			1
<i>Salix nigra</i>	Native		2				2
<i>Sambucus canadensis</i>	Native			3			3
<i>Schoenoplectus tabernaemontana</i>	Native					1	1
<i>Scirpus atrovirens</i>	Native					1	1
<i>Solidago canadensis</i>	Native					4	4
<i>Stachys palustris</i>	Native					1	1
<i>Typha angustifolia</i>	Introduced	Restricted				10	10
<i>Typha latifolia</i>	Native					5	5
<i>Urtica dioica</i>	Native					2	2
<i>Verbena hastata</i>	Native					1	1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	6	86
Non-native Cover Subtotal	1	14
Total Cover Subtotal	7	100
Invasive Cover Subtotal	1	14
Sapling/Shrub		
Native Cover Subtotal	6	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	6	100
Invasive Cover Subtotal	0	0
Vine		
Native Cover Subtotal	4	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	4	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	42	43
Non-native Cover Subtotal	56	57
Total Cover Subtotal	98	100
Invasive Cover Subtotal	53	54
Grand Total		
Native Cover Grand Total	58	50
Non-native Cover Grand Total	57	50
Total Cover Grand Total	115	100
Invasive Cover Grand Total	54	47

GMU-2A (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Abutilon theophrasti</i>	Introduced					1	1
<i>Ageratina altissima</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Ambrosia artemisiifolia</i>	Native					1	1
<i>Asclepias syriaca</i>	Native					1	1
<i>Barbarea vulgaris</i>	Introduced					1	1
<i>Carex blanda</i>	Native					1	1
<i>Carex molesta</i>	Native					1	1
<i>Carex tenera</i>	Native					1	1
<i>Circaea canadensis</i>	Native					1	1
<i>Cornus foemina</i>	Native			10			10
<i>Dactylis glomerata</i>	Introduced					1	1
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Equisetum arvense</i>	Native					1	1
<i>Erigeron strigosus</i>	Native					1	1
<i>Festuca rubra</i>	Introduced					1	1
<i>Fraxinus pennsylvanica</i>	Native					1	1
<i>Fragaria virginiana</i>	Native					1	1
<i>Galium aparine</i>	Native					1	1
<i>Geum canadense</i>	Native					1	1
<i>Hackelia virginiana</i>	Native					1	1
<i>Hypericum perforatum</i>	Introduced	Non-Restricted				1	1
<i>Juncus dudleyi</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		20			20
<i>Medicago lupulina</i>	Introduced					1	1
<i>Meilolus albus</i>	Introduced	Non-Restricted				1	1
<i>Monarda fistulosa</i>	Native					2	2
<i>Onoclea sensibilis</i>	Native					1	1
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native					1	1
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Persicaria maculosa</i>	Introduced					1	1
<i>Persicaria virginiana</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				2	2
<i>Plantago major</i>	Introduced					1	1
<i>Poa pratensis</i>	Introduced					1	1
<i>Prunus serotina</i>	Native					1	1
<i>Prunella vulgaris</i>	Native					1	1
<i>Quercus ellipsoidalis</i>	Native		1				1
<i>Quercus macrocarpa</i>	Native					2	2
<i>Ranunculus abortivus</i>	Native					1	1
<i>Rhamnus cathartica</i>	Introduced	Restricted		5			5
<i>Rosa multiflora</i>	Introduced	Restricted		3			3
<i>Rubus allegheniensis</i>	Native					2	2
<i>Rubus occidentalis</i>	Native					1	1
<i>Rumex crispus</i>	Introduced					1	1
<i>Silene latifolia</i>	Introduced					1	1
<i>Solanum dulcamara</i>	Introduced					1	1
<i>Solidago canadensis</i>	Native					20	20
<i>Solidago gigantea</i>	Native					2	2
<i>Symphyotrichum lateriflorum</i>	Native					1	1
<i>Symphyotrichum novae-angl</i>	Native					1	1
<i>Symphyotrichum pilosum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Verbascum thapsus</i>	Introduced					1	1
<i>Verbena urticifolia</i>	Native					1	1
<i>Viburnum dentatum</i>	Introduced					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted				2	2
<i>Vitis riparia</i>	Native					1	1

		Total % Cover	
Summarized		Absolute Cover	Relative Cover
Tree			
Native Cover Subtotal		1	0
Non-native Cover Subtotal		0	0
Total Cover Subtotal		1	0
Invasive Cover Subtotal		0	0
Sapling/Shrub			
Native Cover Subtotal		10	26
Non-native Cover Subtotal		28	74
Total Cover Subtotal		38	100
Invasive Cover Subtotal		28	74
Vine			
Native Cover Subtotal		0	0
Non-native Cover Subtotal		0	0
Total Cover Subtotal		0	0
Invasive Cover Subtotal		0	0
Herb			
Native Cover Subtotal		57	71
Non-native Cover Subtotal		23	29
Total Cover Subtotal		80	100
Invasive Cover Subtotal		3	4
Grand Total			
Native Cover Grand Total		68	57
Non-native Cover Grand Total		51	43
Total Cover Grand Total		119	100
Invasive Cover Grand Total		31	26

GMU-2B (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Achillea millefolium</i>	Native					15	15
<i>Agrostis gigantea</i>	Introduced					5	5
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Apocynum cannabinum</i>	Native					1	1
<i>Carex molesta</i>	Native					5	5
<i>Carex vulpinoidea</i>	Native					4	4
<i>Cornus foemina</i>	Native			35			35
<i>Fraxinus pennsylvanica</i>	Native		<1				<1
<i>Fragaria virginiana</i>	Native					2	2
<i>Geum aleppicum</i>	Native					3	3
<i>Helianthus grosseserratus</i>	Native					10	10
<i>Juncus dudleyi</i>	Native					5	5
<i>Lonicera tatarica</i>	Introduced	Restricted		20			20
<i>Lycopus americanus</i>	Native					2	2
<i>Monarda fistulosa</i>	Native					4	4
<i>Parthenocissus quinquefolia</i>	Native					2	2
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				1	1
<i>Poa pratensis</i>	Introduced					10	10
<i>Prunella vulgaris</i>	Native					2	2
<i>Pycnanthemum virginianum</i>	Native					15	15
<i>Quercus macrocarpa</i>	Native		<1				<1
<i>Rhus glabra</i>	Native			3			3
<i>Rubus allegheniensis</i>	Native			5			5
<i>Salix humilis</i>	Native			10			10
<i>Scirpus atrovirens</i>	Native					2	2
<i>Solidago canadensis</i>	Native					25	25
<i>Solidago gigantea</i>	Native					20	20
<i>Symphotrichum firmum</i>	Native					2	2
<i>Symphotrichum novae-angl</i>	Native					5	5
<i>Viburnum dentatum</i>	Introduced			2			2
<i>Vitis aestivalis</i>	Native				2		2
<i>Vitis riparia</i>	Native				6		6

Summarized	Total % Cover	
	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	<1	<1
Non-native Cover Subtotal	0	0
Total Cover Subtotal	<1	<1
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	53	71
Non-native Cover Subtotal	22	29
Total Cover Subtotal	75	100
Invasive Cover Subtotal	20	27
Vine		
Native Cover Subtotal	8	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	8	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	125	88
Non-native Cover Subtotal	17	12
Total Cover Subtotal	142	100
Invasive Cover Subtotal	2	1
Grand Total		
Native Cover Grand Total	186	83
Non-native Cover Grand Total	39	17
Total Cover Grand Total	225	100
Invasive Cover Grand Total	22	10

GMU-3A (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		70	5			75
<i>Ageratina altissima</i>	Native					1	1
<i>Alliaria petiolata</i>	Introduced	Restricted				25	25
<i>Cirsium arvense</i>	Introduced	Restricted				1	1
<i>Circaea canadensis</i>	Native					2	2
<i>Cryptotaenia canadensis</i>	Native					1	1
<i>Echinocystis lobata</i>	Native				1		1
<i>Galium aparine</i>	Native					1	1
<i>Geum canadense</i>	Native					1	1
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Hackelia virginiana</i>	Native					1	1
<i>Hemerocallis fulva</i>	Introduced	Caution				2	2
<i>Juglans nigra</i>	Native		5				5
<i>Leonurus cardiaca</i>	Introduced					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		40			40
<i>Matteuccia struthiopteris</i>	Native					1	1
<i>Morus alba</i>	Introduced	Restricted	1				1
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native					10	10
<i>Penthorum sedoides</i>	Native					1	1
<i>Persicaria hydropiper</i>	Introduced					1	1
<i>Persicaria sagittata</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				2	2
<i>Physalis alkekengi</i>	Introduced					1	1
<i>Phytolacca americana</i>	Native					1	1
<i>Pilea pumila</i>	Native					2	2
<i>Podophyllum peltatum</i>	Native					1	1
<i>Rhamnus cathartica</i>	Introduced	Restricted		5			5
<i>Sambucus canadensis</i>	Native			2			2
<i>Sanicula odorata</i>	Native					1	1
<i>Ulmus americana</i>	Native		1				1
<i>Urtica dioica</i>	Native					1	1
<i>Viola sororia</i>	Native					1	1

Summarized	Total % Cover	
	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	76	99
Non-native Cover Subtotal	1	1
Total Cover Subtotal	77	100
Invasive Cover Subtotal	1	1
Sapling/Shrub		
Native Cover Subtotal	7	13
Non-native Cover Subtotal	45	87
Total Cover Subtotal	52	100
Invasive Cover Subtotal	45	87
Vine		
Native Cover Subtotal	1	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	1	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	28	45
Non-native Cover Subtotal	34	55
Total Cover Subtotal	62	100
Invasive Cover Subtotal	28	45
Grand Total		
Native Cover Grand Total	112	58
Non-native Cover Grand Total	80	42
Total Cover Grand Total	192	100
Invasive Cover Grand Total	74	39

GMU-3B (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		35				35
<i>Ageratina altissima</i>	Native					25	25
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Alliaria petiolata</i>	Introduced	Restricted				2	2
<i>Arctium minus</i>	Introduced					1	1
<i>Carex blanda</i>	Native					2	2
<i>Carya ovata</i>	Native		30	2			32
<i>Carex pensylvanica</i>	Native					2	2
<i>Celtis occidentalis</i>	Native					1	1
<i>Cirsium arvense</i>	Introduced	Restricted				1	1
<i>Circaea canadensis</i>	Native					5	5
<i>Duchesnea indica</i>	Introduced					2	2
<i>Fraxinus pennsylvanica</i>	Native					1	1
<i>Galium aparine</i>	Native					2	2
<i>Geum canadense</i>	Native					4	4
<i>Hackelia virginiana</i>	Native					10	10
<i>Impatiens capensis</i>	Native					2	2
<i>Juglans nigra</i>	Native		4				4
<i>Leonurus cardiaca</i>	Introduced					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Matteuccia struthiopteris</i>	Native					1	1
<i>Oxalis stricta</i>	Native					2	2
<i>Parthenocissus quinquefolia</i>	Native				5	20	25
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				5	5
<i>Pilea pumila</i>	Native					3	3
<i>Populus deltoides</i>	Native		5			1	6
<i>Prunus serotina</i>	Native		25				25
<i>Prunus virginiana</i>	Native			<1			<1
<i>Quercus alba</i>	Native		1				1
<i>Quercus macrocarpa</i>	Native		2				2
<i>Quercus rubra</i>	Native		10				10
<i>Rhamnus cathartica</i>	Introduced	Restricted		4		3	7
<i>Robinia pseudoacacia</i>	Introduced	Restricted	5				5
<i>Rubus occidentalis</i>	Native			2			2
<i>Sambucus canadensis</i>	Native			5			5
<i>Vitis aestivalis</i>	Native				1		1
<i>Vitis riparia</i>	Native				3		3

Summarized	Total % Cover	
	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	112	96
Non-native Cover Subtotal	5	4
Total Cover Subtotal	117	100
Invasive Cover Subtotal	5	4
Sapling/Shrub		
Native Cover Subtotal	9	50
Non-native Cover Subtotal	9	50
Total Cover Subtotal	18	100
Invasive Cover Subtotal	9	50
Vine		
Native Cover Subtotal	9	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	9	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	82	85
Non-native Cover Subtotal	15	15
Total Cover Subtotal	97	100
Invasive Cover Subtotal	11	11
Grand Total		
Native Cover Grand Total	212	88
Non-native Cover Grand Total	29	12
Total Cover Grand Total	241	100
Invasive Cover Grand Total	25	10

ITMU-1 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native			5			5
<i>Acer platanoides</i>	Introduced	Caution	<1	1		<1	1
<i>Achillea millefolium</i>	Native					<1	<1
<i>Ageratina altissima</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					2	2
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Alliaria petiolata</i>	Introduced	Restricted				1	1
<i>Anemone virginiana</i>	Native					1	1
<i>Arctium minus</i>	Introduced					<1	<1
<i>Arisaema triphyllum</i>	Native					2	2
<i>Asarum canadense</i>	Native					1	1
<i>Betula papyrifera</i>	Native		<1				<1
<i>Blephilia hirsuta</i>	Native					2	2
<i>Bromus latiglumis</i>	Native					1	1
<i>Campanulastrum americanum</i>	Native					<1	<1
<i>Carex blanda</i>	Native					1	1
<i>Carex bromoides</i>	Native					<1	<1
<i>Carex cephalophora</i>	Native					2	2
<i>Carex debilis</i>	Native					1	1
<i>Carex grisea</i>	Native					<1	<1
<i>Carex rosea</i>	Native					1	1
<i>Carex sprengei</i>	Native					1	1
<i>Carya ovata</i>	Native		7	1			8
<i>Catalpa speciosa</i>	Introduced			<1			<1
<i>Celastrus orbiculatus</i>	Introduced	Restricted			10		10
<i>Celtis occidentalis</i>	Native		15	5		3	23
<i>Circaea canadensis</i>	Native					2	2
<i>Cercis canadensis</i>	Introduced			<1			<1
<i>Cirsium arvense</i>	Introduced	Restricted				<1	<1
<i>Convallaria majalis</i>	Introduced	Non-Restricted				3	3
<i>Cornus foemina</i>	Native			5			5
<i>Dactylis glomerata</i>	Introduced					<1	<1
<i>Dryopteris carthusiana</i>	Native					1	1
<i>Echinocystis lobata</i>	Native				1		1
<i>Elymus canadensis</i>	Native					<1	<1
<i>Elymus hystrix</i>	Native					2	2
<i>Elymus villosus</i>	Native					2	2
<i>Elymus virginicus</i>	Native					<1	<1
<i>Erigeron annuus</i>	Native					1	1
<i>Eutrochium purpureum</i>	Native					3	3
<i>Fraxinus pennsylvanica</i>	Native			5			5
<i>Galium aparine</i>	Native					1	1
<i>Geum canadense</i>	Native					1	1
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Hackelia virginiana</i>	Native					2	2
<i>Hemerocallis fulva</i>	Introduced	Caution				1	1
<i>Juglans nigra</i>	Native		20				20
<i>Juniperus virginiana</i>	Native		<1	<1			<1
<i>Lamium maculatum</i>	Introduced					1	1
<i>Leersia virginica</i>	Native					1	1
<i>Leonurus cardiaca</i>	Introduced					<1	<1
<i>Ligustrum vulgare</i>	Introduced	Caution		<1			<1
<i>Lolium arundinaceum</i>	Introduced					5	5
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Maianthemum racemosum</i>	Native					8	8
<i>Maianthemum stellatum</i>	Native					<1	<1
<i>Matteuccia struthiopteris</i>	Native					<1	<1
<i>Monarda fistulosa</i>	Native					<1	<1
<i>Morus alba</i>	Introduced	Restricted	1				1
<i>Nepeta cataria</i>	Introduced					1	1
<i>Osmorhiza claytonii</i>	Native					1	1
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native					15	15
<i>Persicaria maculosa</i>	Introduced					<1	<1
<i>Persicaria virginiana</i>	Native					2	2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				1	1
<i>Phryma leptostachya</i>	Native					<1	<1
<i>Phytolacca americana</i>	Native					<1	<1
<i>Picea abies</i>	Introduced		<1				<1
<i>Pilea pumila</i>	Native					<1	<1
<i>Pinus resinosa</i>	Native		1				1
<i>Poa pratensis</i>	Introduced					1	1
<i>Podophyllum peltatum</i>	Native					1	1
<i>Polygonatum biflorum</i>	Native					<1	<1
<i>Populus tremuloides</i>	Native		<1				<1
<i>Prunus serotina</i>	Native		5	1			6
<i>Quercus alba</i>	Native		15				15
<i>Quercus ellipsoidalis</i>	Native		<1				<1

Total % Cover	
Summarized	Absolute Cover Relative Cover
Tree	
Native Cover Subtotal	103 99
Non-native Cover Subtotal	1 1
Total Cover Subtotal	104 100
Invasive Cover Subtotal	1 1
Sapling/Shrub	
Native Cover Subtotal	34 76
Non-native Cover Subtotal	11 24
Total Cover Subtotal	45 100
Invasive Cover Subtotal	8 18
Vine	
Native Cover Subtotal	8 44
Non-native Cover Subtotal	10 56
Total Cover Subtotal	18 100
Invasive Cover Subtotal	10 56
Herb	
Native Cover Subtotal	70 80
Non-native Cover Subtotal	17 20
Total Cover Subtotal	87 100
Invasive Cover Subtotal	3 3
Grand Total	
Native Cover Grand Total	215 85
Non-native Cover Grand Total	39 15
Total Cover Grand Total	254 100
Invasive Cover Grand Total	22 9

<i>Quercus macrocarpa</i>	Native		5				5
<i>Quercus rubra</i>	Native		20	1			21
<i>Rhamnus cathartica</i>	Introduced	Restricted		3		1	4
<i>Rhus glabra</i>	Native			<1			<1
<i>Ribes americanum</i>	Native			1			1
<i>Rosa multiflora</i>	Introduced	Restricted		<1			<1
<i>Rubus allegheniensis</i>	Native			1			1
<i>Rubus occidentalis</i>	Native			3			3
<i>Sambucus canadensis</i>	Native			2			2
<i>Sanguinaria canadensis</i>	Native					<1	<1
<i>Sanicula odorata</i>	Native					<1	<1
<i>Scrophularia marilandica</i>	Native					1	1
<i>Smilax herbacea</i>	Native				1		1
<i>Solanum dulcamara</i>	Introduced					<1	<1
<i>Solidago canadensis</i>	Native					<1	<1
<i>Solidago ulmifolia</i>	Native					1	1
<i>Symphotrichum lateriflorum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					<1	<1
<i>Tilia americana</i>	Native		15	1			16
<i>Toxicodendron radicans</i>	Native					1	1
<i>Ulmus americana</i>	Native			1			1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2			2
<i>Viola sororia</i>	Native					4	4
<i>Vitis aestivalis</i>	Native				1		1
<i>Vitis riparia</i>	Native				5		5
<i>Zanthoxylum americanum</i>	Native			2			2

ITMU-2 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		1				1
<i>Acer platanoides</i>	Introduced	Caution		2			2
<i>Acer saccharinum</i>	Native		5				5
<i>Ageratina altissima</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Allium canadense</i>	Native					1	1
<i>Ambrosia trifida</i>	Native					1	1
<i>Anemone canadensis</i>	Native					1	1
<i>Arisaema triphyllum</i>	Native					1	1
<i>Asclepias incarnata</i>	Native					<1	<1
<i>Bidens cernua</i>	Native					<1	<1
<i>Blephilia hirsuta</i>	Native					1	1
<i>Bolboschoenus fluviatilis</i>	Native					1	1
<i>Calamagrostis canadensis</i>	Native					1	1
<i>Carex davisii</i>	Native					1	1
<i>Carex lacustris</i>	Native					1	1
<i>Carex pellita</i>	Native					1	1
<i>Carex stricta</i>	Native					2	2
<i>Carex vulpinoidea</i>	Native					1	1
<i>Celtis occidentalis</i>	Native			2		1	3
<i>Cicuta bulbifera</i>	Native					<1	<1
<i>Circaea canadensis</i>	Native					2	2
<i>Cirsium arvense</i>	Introduced	Restricted				<1	<1
<i>Cirsium vulgare</i>	Introduced					1	1
<i>Cornus sericea</i>	Native			10			10
<i>Crataegus mollis</i>	Native			1			1
<i>Cuscuta gronovii</i>	Native					1	1
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Diarrhena obovata</i>	Native					1	1
<i>Echinocystis lobata</i>	Native					1	1
<i>Echium vulgare</i>	Introduced					<1	<1
<i>Elymus canadensis</i>	Native					1	1
<i>Elymus hystrix</i>	Native					1	1
<i>Elymus virginicus</i>	Native					1	1
<i>Epilobium coloratum</i>	Native					<1	<1
<i>Erigeron strigosus</i>	Native					2	2
<i>Fraxinus pennsylvanica</i>	Native		10	5			15
<i>Galium aparine</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Glechoma hederacea</i>	Introduced	Caution				2	2
<i>Gleditsia triacanthos</i>	Native		1				1
<i>Hackelia virginiana</i>	Native					1	1
<i>Hesperis matronalis</i>	Introduced	Restricted				1	1
<i>Impatiens capensis</i>	Native					2	2
<i>Juglans nigra</i>	Native		5				5
<i>Juncus dudleyi</i>	Native					1	1
<i>Lolium arundinaceum</i>	Introduced					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		10			10
<i>Lysimachia ciliata</i>	Native					1	1
<i>Lythrum salicaria</i>	Introduced	Restricted				1	1
<i>Maianthemum racemosum</i>	Native					1	1
<i>Melilotus albus</i>	Introduced	Non-Restricted				1	1
<i>Mimulus ringens</i>	Native					<1	<1
<i>Monarda fistulosa</i>	Native					1	1
<i>Morus alba</i>	Introduced	Restricted		1		1	2
<i>Oenothera biennis</i>	Native					<1	<1
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native				2		2
<i>Penthorum sedoides</i>	Native					<1	<1
<i>Persicaria amphibia</i>	Native					<1	<1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				5	5
<i>Pilea pumila</i>	Native					1	1
<i>Poa palustris</i>	Native					1	1
<i>Poa pratensis</i>	Introduced					1	1
<i>Populus deltoides</i>	Native		5				5
<i>Prunus americana</i>	Native			2			2
<i>Prunus virginiana</i>	Native			1			1
<i>Quercus bicolor</i>	Native	1	<1				<1
<i>Ranunculus acris</i>	Introduced					<1	<1
<i>Ranunculus hispidus</i>	Native					1	1
<i>Rhamnus cathartica</i>	Introduced	Restricted		5			5
<i>Ribes americanum</i>	Native			3			3
<i>Robinia pseudoacacia</i>	Introduced	Restricted		1			1
<i>Rosa multiflora</i>	Introduced	Restricted		1			1
<i>Rubus occidentalis</i>	Native			2			2
<i>Rumex britannica</i>	Native					<1	<1
<i>Rumex crispus</i>	Introduced					1	1
<i>Sagittaria latifolia</i>	Native					2	2
<i>Salix alba</i> f. cv. 'Vitellina'	Excluded		10				10
<i>Salix interior</i>	Native			1			1

	Total % Cover	
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	32	76
Non-native Cover Subtotal	10	24
Total Cover Subtotal	42	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	31	55
Non-native Cover Subtotal	25	45
Total Cover Subtotal	56	100
Invasive Cover Subtotal	18	32
Vine		
Native Cover Subtotal	6	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	6	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	52	54
Non-native Cover Subtotal	45	46
Total Cover Subtotal	97	100
Invasive Cover Subtotal	34	35
Grand Total		
Native Cover Grand Total	121	60
Non-native Cover Grand Total	80	40
Total Cover Grand Total	201	100
Invasive Cover Grand Total	52	26

<i>Salix nigra</i>	Native			1			1
<i>Sambucus canadensis</i>	Native			2			2
<i>Sanicula odorata</i>	Native					1	1
<i>Scirpus atrovirens</i>	Native					1	1
<i>Solanum dulcamara</i>	Introduced					1	1
<i>Solidago gigantea</i>	Native					1	1
<i>Sonchus asper</i>	Introduced					1	1
<i>Symphotrichum firmum</i>	Native					1	1
<i>Symphotrichum lanceolatum</i>	Native					1	1
<i>Symphotrichum lateriflorum</i>	Native					2	2
<i>Thuja occidentalis</i>	Native		5				5
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				1	1
<i>Typha angustifolia</i>	Introduced	Restricted				25	25
<i>Verbena hastata</i>	Native					1	1
<i>Verbena urticifolia</i>	Native					1	1
<i>Vernonia fasciculata</i>	Native					1	1
<i>Viburnum lentago</i>	Native			1			1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		5			5
<i>Viola sororia</i>	Native					1	1
<i>Vitis aestivalis</i>	Native					2	2
<i>Vitis riparia</i>	Native					2	2

MMU-1 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native			1			1
<i>Achillea millefolium</i>	Native					1	1
<i>Ageratina altissima</i>	Native					1	1
<i>Agrimonia gryposepala</i>	Native					2	2
<i>Anemone virginiana</i>	Native					1	1
<i>Arctium minus</i>	Introduced					1	1
<i>Asclepias syriaca</i>	Native					1	1
<i>Athyrium filix-femina</i>	Native					1	1
<i>Betula papyrifera</i>	Native		1				1
<i>Calamagrostis canadensis</i>	Native					1	1
<i>Carex cephalophora</i>	Native					1	1
<i>Carex rosea</i>	Native					2	2
<i>Carya ovata</i>	Native		50	25			75
<i>Celtis occidentalis</i>	Native		1			1	2
<i>Cirsium arvense</i>	Introduced	Restricted				1	1
<i>Circaea canadensis</i>	Native					3	3
<i>Cornus foemina</i>	Native			5			5
<i>Dactylis glomerata</i>	Introduced					1	1
<i>Elaeagnus umbellata</i>	Introduced	Restricted		1			1
<i>Elymus virginicus</i>	Native					1	1
<i>Erigeron strigosus</i>	Native					1	1
<i>Eutrochium maculatum</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native					1	1
<i>Galium aparine</i>	Native					1	1
<i>Geranium maculatum</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Hackelia virginiana</i>	Native					1	1
<i>Juncus dudleyi</i>	Native					1	1
<i>Leersia virginica</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		3			3
<i>Maianthemum racemosum</i>	Native					1	1
<i>Monarda fistulosa</i>	Native					1	1
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native				10		10
<i>Persicaria virginiana</i>	Native					2	2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				1	1
<i>Phytolacca americana</i>	Native					1	1
<i>Pilea pumila</i>	Native					1	1
<i>Podophyllum peltatum</i>	Native					2	2
<i>Populus tremuloides</i>	Native		1				1
<i>Potentilla simplex</i>	Native					1	1
<i>Prunus serotina</i>	Native		2	2			4
<i>Prunus virginiana</i>	Native			3			3
<i>Quercus alba</i>	Native		15				15
<i>Quercus macrocarpa</i>	Native		20	1			21
<i>Quercus rubra</i>	Native			1			1
<i>Rhamnus cathartica</i>	Introduced	Restricted		1		4	5
<i>Ribes missouriense</i>	Native			1			1
<i>Robinia pseudoacacia</i>	Introduced	Restricted				1	1
<i>Rosa multiflora</i>	Introduced	Restricted		1			1
<i>Rubus allegheniensis</i>	Native			5			5
<i>Rubus occidentalis</i>	Native			2			2
<i>Solidago canadensis</i>	Native					1	1
<i>Solidago gigantea</i>	Native					1	1
<i>Symphotrichum firmum</i>	Native					1	1
<i>Symphotrichum lateriflorum</i>	Native					2	2
<i>Toxicodendron radicans</i>	Native				3		3
<i>Triosteum aurantiacum</i>	Native					1	1
<i>Trifolium repens</i>	Introduced					1	1
<i>Urtica dioica</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2			2
<i>Viola sororia</i>	Native					1	1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	90	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	90	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	46	85
Non-native Cover Subtotal	8	15
Total Cover Subtotal	54	100
Invasive Cover Subtotal	6	11
Vine		
Native Cover Subtotal	15	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	15	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	44	81
Non-native Cover Subtotal	10	19
Total Cover Subtotal	54	100
Invasive Cover Subtotal	6	11
Grand Total		
Native Cover Grand Total	195	92
Non-native Cover Grand Total	18	8
Total Cover Grand Total	213	100
Invasive Cover Grand Total	12	6

MMU-2 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer ginnala</i>	Introduced	Restricted				1	1
<i>Achillea millefolium</i>	Native					2	2
<i>Agrostis gigantea</i>	Introduced					5	5
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Ambrosia trifida</i>	Native					1	1
<i>Anaphalis margaritacea</i>	Native					1	1
<i>Andropogon gerardii</i>	Native					1	1
<i>Asclepias syriaca</i>	Native					1	1
<i>Betula papyrifera</i>	Native			1			1
<i>Bromus inermis</i>	Introduced	Non-Restricted				20	20
<i>Campanulastrum americanum</i>	Native					1	1
<i>Carex pellita</i>	Native					1	1
<i>Carex scoparia</i>	Native					1	1
<i>Carya ovata</i>	Native					1	1
<i>Cirsium discolor</i>	Native					1	1
<i>Cornus amomum</i>	Native			5			5
<i>Cornus foemina</i>	Native			10			10
<i>Dalea candida</i>	Native					1	1
<i>Dalea purpurea</i>	Native					1	1
<i>Daucus carota</i>	Introduced	Non-Restricted				20	20
<i>Echinacea purpurea</i>	Introduced					1	1
<i>Elaeagnus umbellata</i>	Introduced	Restricted		1			1
<i>Erigeron strigosus</i>	Native					1	1
<i>Eryngium yuccifolium</i>	Native					1	1
<i>Helenium autumnale</i>	Native					1	1
<i>Juglans nigra</i>	Native					1	1
<i>Juncus dudleyi</i>	Native					1	1
<i>Lactuca canadensis</i>	Native					1	1
<i>Leucanthemum vulgare</i>	Introduced					1	1
<i>Liatris pycnostachya</i>	Native					1	1
<i>Lobelia siphilitica</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Melilotus albus</i>	Introduced	Non-Restricted				1	1
<i>Monarda fistulosa</i>	Native					2	2
<i>Morus alba</i>	Introduced	Restricted				1	1
<i>Oenothera biennis</i>	Native					1	1
<i>Oxalis stricta</i>	Native					1	1
<i>Panicum virgatum</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				1	1
<i>Phleum pratense</i>	Introduced					1	1
<i>Physostegia virginiana</i>	Native					1	1
<i>Poa pratensis</i>	Introduced					20	20
<i>Potentilla norvegica</i>	Native					1	1
<i>Prunus serotina</i>	Native			1			1
<i>Pycnanthemum virginianum</i>	Native					1	1
<i>Quercus alba</i>	Native					1	1
<i>Quercus macrocarpa</i>	Native			2			2
<i>Ratibida pinnata</i>	Native					1	1
<i>Rhamnus cathartica</i>	Introduced	Restricted		1			1
<i>Rubus idaeus</i>	Native					1	1
<i>Rubus occidentalis</i>	Native			1			1
<i>Rudbeckia hirta</i>	Native					1	1
<i>Rumex crispus</i>	Introduced					1	1
<i>Salix interior</i>	Native			1			1
<i>Silene chaldonica</i>	Introduced					1	1
<i>Silphium perfoliatum</i>	Native					1	1
<i>Smilax herbacea</i>	Native					1	1
<i>Solidago canadensis</i>	Native					20	20
<i>Solidago gigantea</i>	Native					1	1
<i>Sorghastrum nutans</i>	Native					1	1
<i>Stachys tenuifolia</i>	Native					1	1
<i>Symphotrichum firmum</i>	Native					1	1
<i>Symphotrichum lanceolatum</i>	Native					1	1
<i>Symphotrichum novae-angliae</i>	Native					1	1
<i>Symphotrichum pilosum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					11	11
<i>Toxicodendron radicans</i>	Native					1	1
<i>Trifolium pratense</i>	Introduced					1	1
<i>Ulmus rubra</i>	Native		3				3
<i>Viola sororia</i>	Native					1	1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	3	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	3	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	21	75
Non-native Cover Subtotal	7	25
Total Cover Subtotal	28	100
Invasive Cover Subtotal	7	25
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	65	43
Non-native Cover Subtotal	86	57
Total Cover Subtotal	151	100
Invasive Cover Subtotal	3	2
Grand Total		
Native Cover Grand Total	91	49
Non-native Cover Grand Total	93	51
Total Cover Grand Total	184	100
Invasive Cover Grand Total	10	5

MMU-3 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		3	1			4
<i>Achillea millefolium</i>	Native					<1	<1
<i>Ageratina altissima</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Anemone canadensis</i>	Native					1	1
<i>Arctium minus</i>	Introduced					<1	<1
<i>Asclepias incarnata</i>	Native					2	2
<i>Asclepias syriaca</i>	Native					1	1
<i>Calamagrostis canadensis</i>	Native					5	5
<i>Calystegia sepium</i>	Native				1		1
<i>Carex lacustris</i>	Native					1	1
<i>Carex pellita</i>	Native					3	3
<i>Carex stricta</i>	Native					12	12
<i>Circaea canadensis</i>	Native					2	2
<i>Cirsium arvense</i>	Introduced	Restricted				<1	<1
<i>Cirsium discolor</i>	Native					<1	<1
<i>Cirsium vulgare</i>	Introduced					<1	<1
<i>Cornus amomum</i>	Native			5			5
<i>Cornus foemina</i>	Native			5			5
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Echinocystis lobata</i>	Native				2		2
<i>Elaeagnus umbellata</i>	Introduced	Restricted		<1			<1
<i>Equisetum arvense</i>	Native					1	1
<i>Eriogon annuus</i>	Native					<1	<1
<i>Eupatorium perfoliatum</i>	Native					1	1
<i>Eutrochium maculatum</i>	Native					5	5
<i>Fragaria virginiana</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			<1			<1
<i>Galium aparine</i>	Native					<1	<1
<i>Geum aleppicum</i>	Native					1	1
<i>Geum canadense</i>	Native					1	1
<i>Hackelia virginiana</i>	Native					1	1
<i>Impatiens capensis</i>	Native					3	3
<i>Juglans nigra</i>	Native		1				1
<i>Juncus dudleyi</i>	Native					1	1
<i>Lathyrus palustris</i>	Native				<1		<1
<i>Lonicera tatarica</i>	Introduced	Restricted		2			2
<i>Lycopus americanus</i>	Native					1	1
<i>Lythrum salicaria</i>	Introduced	Restricted				<1	<1
<i>Melilotus officinalis</i>	Introduced	Non-Restricted				<1	<1
<i>Mentha canadensis</i>	Native					1	1
<i>Monarda fistulosa</i>	Native					1	1
<i>Morus alba</i>	Introduced	Restricted	1				1
<i>Parthenocissus quinquefolia</i>	Native				1	1	2
<i>Persicaria amphibia</i>	Native					1	1
<i>Persicaria maculosa</i>	Introduced					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				15	15
<i>Phragmites australis ssp. austral</i>	Introduced	Prohibited/Restricted				1	1
<i>Pilea pumila</i>	Native					1	1
<i>Poa pratensis</i>	Introduced					<1	<1
<i>Populus deltoides</i>	Native		8				8
<i>Pycnanthemum virginianum</i>	Native					4	4
<i>Rhamnus cathartica</i>	Introduced	Restricted		2		2	4
<i>Rubus occidentalis</i>	Native			2			2
<i>Salix alba f. cv. 'Vitellina'</i>	Excluded			<1			<1
<i>Salix discolor</i>	Native		2	6			8
<i>Salix interior</i>	Native			10			10
<i>Salix nigra</i>	Native		15				15
<i>Sambucus canadensis</i>	Native			1			1
<i>Scirpus atrovirens</i>	Native					1	1
<i>Solidago canadensis</i>	Native					2	2
<i>Solidago gigantea</i>	Native					8	8
<i>Sonchus asper</i>	Introduced					4	4
<i>Stachys palustris</i>	Native					3	3
<i>Symphyotrichum firmum</i>	Native					5	5
<i>Symphyotrichum lanceolatum</i>	Native					<1	<1
<i>Symphyotrichum novae-angliae</i>	Native					<1	<1
<i>Symphyotrichum pilosum</i>	Native					<1	<1
<i>Teucrium canadense</i>	Native					<1	<1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Typha angustifolia</i>	Introduced	Restricted				25	25
<i>Typha latifolia</i>	Native					1	1
<i>Urtica dioica</i>	Native					1	1
<i>Verbena hastata</i>	Native					3	3
<i>Verbena urticifolia</i>	Native					<1	<1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2		2	4
<i>Vitis riparia</i>	Native				1		1

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	29	97
Non-native Cover Subtotal	1	3
Total Cover Subtotal	30	100
Invasive Cover Subtotal	1	3
Sapling/Shrub		
Native Cover Subtotal	30	83
Non-native Cover Subtotal	6	17
Total Cover Subtotal	36	100
Invasive Cover Subtotal	4	11
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	78	60
Non-native Cover Subtotal	51	40
Total Cover Subtotal	129	100
Invasive Cover Subtotal	43	33
Grand Total		
Native Cover Grand Total	142	71
Non-native Cover Grand Total	58	29
Total Cover Grand Total	200	100
Invasive Cover Grand Total	48	24

SMU-1 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native			1			1
<i>Ageratina altissima</i>	Native					1	1
<i>Anemone quinquefolia</i>	Native					1	1
<i>Arctium lappa</i>	Introduced					1	1
<i>Arctium minus</i>	Introduced					1	1
<i>Arisaema triphyllum</i>	Native					2	2
<i>Carex blanda</i>	Native					1	1
<i>Carex rosea</i>	Native					1	1
<i>Carya cordiformis</i>	Native		1				1
<i>Carya ovata</i>	Native		8				8
<i>Celtis occidentalis</i>	Native		25			1	26
<i>Circaea canadensis</i>	Native					4	4
<i>Cirsium vulgare</i>	Introduced					<1	<1
<i>Conyza canadensis</i>	Native					<1	<1
<i>Crataegus mollis</i>	Native			1			1
<i>Dactylis glomerata</i>	Introduced					<1	<1
<i>Duchesnea indica</i>	Introduced					1	1
<i>Erechtites hieraciifolius</i>	Native					<1	<1
<i>Eutrochium purpureum</i>	Native					<1	<1
<i>Fraxinus americana</i>	Native		1				1
<i>Fraxinus pennsylvanica</i>	Native			2		1	3
<i>Galium aparine</i>	Native					2	2
<i>Geranium maculatum</i>	Native					10	10
<i>Geum canadense</i>	Native					1	1
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Hackelia virginiana</i>	Native					2	2
<i>Hemerocallis fulva</i>	Introduced	Caution				<1	<1
<i>Ligustrum vulgare</i>	Introduced	Caution		<1			<1
<i>Lonicera reticulata</i>	Native				2		2
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Maianthemum racemosum</i>	Native					5	5
<i>Morus alba</i>	Introduced	Restricted		1		<1	1
<i>Nepeta cataria</i>	Introduced					<1	<1
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native				1	10	11
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				1	1
<i>Podophyllum peltatum</i>	Native					15	15
<i>Prunus serotina</i>	Native		15				15
<i>Quercus alba</i>	Native		30				30
<i>Quercus macrocarpa</i>	Native		5				5
<i>Rhamnus cathartica</i>	Introduced	Restricted		7		5	12
<i>Rhus glabra</i>	Native			1			1
<i>Rubus occidentalis</i>	Native					1	1
<i>Silene latifolia</i>	Introduced					<1	<1
<i>Solanum dulcamara</i>	Introduced					1	1
<i>Solidago canadensis</i>	Native					1	1
<i>Sonchus oleraceus</i>	Introduced					<1	<1
<i>Symphotrichum pilosum</i>	Native					<1	<1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Tilia americana</i>	Native		5				5
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				1	1
<i>Toxicodendron radicans</i>	Native					<1	<1
<i>Trifolium repens</i>	Introduced					1	1
<i>Ulmus americana</i>	Native		1				1
<i>Ulmus rubra</i>	Native		1				1
<i>Verbascum thapsus</i>	Introduced					<1	<1
<i>Verbena urticifolia</i>	Native					<1	<1
<i>Vitis aestivalis</i>	Native				<1		<1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	92	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	92	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	28
Non-native Cover Subtotal	13	72
Total Cover Subtotal	18	100
Invasive Cover Subtotal	13	72
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	60	81
Non-native Cover Subtotal	14	19
Total Cover Subtotal	74	100
Invasive Cover Subtotal	7	9
Grand Total		
Native Cover Grand Total	162	86
Non-native Cover Grand Total	27	14
Total Cover Grand Total	189	100
Invasive Cover Grand Total	20	11

TMU-1 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		1			<1	<1
<i>Ageratina altissima</i>	Native					1	1
<i>Agrimonia gryposepala</i>	Native					<1	<1
<i>Arctium minus</i>	Introduced					1	1
<i>Bromus inermis</i>	Introduced	Non-Restricted				1	1
<i>Carex blanda</i>	Native					1	1
<i>Carya ovata</i>	Native		4	1		2	7
<i>Carex pensylvanica</i>	Native					2	2
<i>Celtis occidentalis</i>	Native					1	1
<i>Circaea canadensis</i>	Native					4	4
<i>Convallaria majalis</i>	Introduced	Non-Restricted				2	2
<i>Erechtites hieraciifolius</i>	Native					<1	<1
<i>Fraxinus americana</i>	Native		2				2
<i>Fraxinus pennsylvanica</i>	Native			5		3	8
<i>Galium aparine</i>	Native					1	1
<i>Hypericum perforatum</i>	Introduced	Non-Restricted				<1	<1
<i>Lonicera tatarica</i>	Introduced	Restricted		10			10
<i>Melilotus officinalis</i>	Introduced	Non-Restricted				1	1
<i>Morus alba</i>	Introduced	Restricted	8				8
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native					1	1
<i>Pinus resinosa</i>	Native		75				75
<i>Prunus serotina</i>	Native		15				15
<i>Rhamnus cathartica</i>	Introduced	Restricted	1	10		15	26
<i>Rubus occidentalis</i>	Native					<1	<1
<i>Securigera varia</i>	Introduced	Restricted				1	1
<i>Smilax herbacea</i>	Native					<1	<1
<i>Solidago canadensis</i>	Native					1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Trifolium repens</i>	Introduced					<1	<1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		4		3	7
<i>Vitis aestivalis</i>	Native				5		5
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	97	92
Non-native Cover Subtotal	9	8
Total Cover Subtotal	106	100
Invasive Cover Subtotal	9	8
Sapling/Shrub		
Native Cover Subtotal	6	20
Non-native Cover Subtotal	24	80
Total Cover Subtotal	30	100
Invasive Cover Subtotal	20	67
Vine		
Native Cover Subtotal	7	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	19	44
Non-native Cover Subtotal	24	56
Total Cover Subtotal	43	100
Invasive Cover Subtotal	16	37
Grand Total		
Native Cover Grand Total	129	69
Non-native Cover Grand Total	57	31
Total Cover Grand Total	186	100
Invasive Cover Grand Total	45	24

TMU-2 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Ageratina altissima</i>	Native					1	1
<i>Ambrosia artemisiifolia</i>	Native					1	1
<i>Asclepias syriaca</i>	Native					<1	<1
<i>Bromus inermis</i>	Introduced	Non-Restricted				10	10
<i>Bromus arvensis</i>	Introduced					15	15
<i>Centaurea stoebe</i>	Introduced	Restricted				15	15
<i>Cirsium vulgare</i>	Introduced					2	2
<i>Conyza canadensis</i>	Native					2	2
<i>Dactylis glomerata</i>	Introduced					1	1
<i>Daucus carota</i>	Introduced	Non-Restricted				5	5
<i>Erigeron annuus</i>	Native					1	1
<i>Euphorbia virgata</i>	Introduced					<1	<1
<i>Fraxinus americana</i>	Native		1				1
<i>Juglans nigra</i>	Native		45	10			55
<i>Juniperus virginiana</i>	Native			1			1
<i>Lolium arundinaceum</i>	Introduced					5	5
<i>Lonicera tatarica</i>	Introduced	Restricted		3			3
<i>Melilotus officinalis</i>	Introduced	Non-Restricted				2	2
<i>Monarda fistulosa</i>	Native					5	5
<i>Morus alba</i>	Introduced	Restricted	2				2
<i>Oxalis stricta</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				1	1
<i>Phleum pratense</i>	Introduced					<1	<1
<i>Plantago major</i>	Introduced					1	1
<i>Poa pratensis</i>	Introduced					5	5
<i>Populus deltoides</i>	Native		2				2
<i>Quercus velutina</i>	Native		1				1
<i>Rhamnus cathartica</i>	Introduced	Restricted		2			2
<i>Rhus glabra</i>	Native			20			20
<i>Rubus occidentalis</i>	Native			2			2
<i>Sambucus canadensis</i>	Native			1			1
<i>Securigera varia</i>	Introduced	Restricted				10	10
<i>Solidago canadensis</i>	Native					15	15
<i>Symphotrichum ericoides</i>	Native					<1	<1
<i>Symphotrichum pilosum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Tragopogon dubius</i>	Introduced					<1	<1
<i>Verbena urticifolia</i>	Native					<1	<1
<i>Vitis riparia</i>	Native				5		5

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	49	96
Non-native Cover Subtotal	2	4
Total Cover Subtotal	51	100
Invasive Cover Subtotal	2	4
Sapling/Shrub		
Native Cover Subtotal	34	87
Non-native Cover Subtotal	5	13
Total Cover Subtotal	39	100
Invasive Cover Subtotal	5	13
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	27	27
Non-native Cover Subtotal	73	73
Total Cover Subtotal	100	100
Invasive Cover Subtotal	25	25
Grand Total		
Native Cover Grand Total	115	59
Non-native Cover Grand Total	80	41
Total Cover Grand Total	195	100
Invasive Cover Grand Total	32	16

UMU-1 (Emergent Marsh - Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Achillea millefolium</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Alisma subcordatum</i>	Native					1	1
<i>Asclepias incarnata</i>	Native					1	1
<i>Carex bebbii</i>	Native					1	1
<i>Carex cristatella</i>	Native					1	1
<i>Carex pellita</i>	Native					2	2
<i>Carex stipata</i>	Native					1	1
<i>Carex stricta</i>	Native					5	5
<i>Carex vulpinoidea</i>	Native					1	1
<i>Cirsium arvense</i>	Introduced	Restricted				3	3
<i>Eleocharis erythropoda</i>	Native					1	1
<i>Eutrochium maculatum</i>	Native					1	1
<i>Geum aleppicum</i>	Native					1	1
<i>Helianthus grosseserratus</i>	Native					2	2
<i>Hypericum ascyron</i>	Native					1	1
<i>Juncus dudleyi</i>	Native					2	2
<i>Leersia oryzoides</i>	Native					1	1
<i>Lemna minor</i>	Native					1	1
<i>Lonocera tatarica</i>	Introduced	Restricted		2			2
<i>Lycopus americanus</i>	Native					1	1
<i>Lythrum alatum</i>	Native					1	1
<i>Onoclea sensibilis</i>	Native					1	1
<i>Persicaria amphibia</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				5	5
<i>Pycnanthemum virginianum</i>	Native					1	1
<i>Rorippa palustris</i>	Native					1	1
<i>Rubus allegheniensis</i>	Native			1			1
<i>Schoenoplectus tabernaemontani</i>	Native					1	1
<i>Scirpus atrovirens</i>	Native					2	2
<i>Scirpus cyperinus</i>	Native					1	1
<i>Solidago canadensis</i>	Native					2	2
<i>Solidago gigantea</i>	Native					2	2
<i>Symphotrichum firmum</i>	Native					10	10
<i>Typha angustifolia</i>	Introduced	Restricted				20	20
<i>Typha latifolia</i>	Native					25	25
<i>Verbena hastata</i>	Native					1	1

Total % Cover	
Summarized	Absolute Cover Relative Cover
Tree	
Native Cover Subtotal	0 0
Non-native Cover Subtotal	0 0
Total Cover Subtotal	0 0
Invasive Cover Subtotal	0 0
Sapling/Shrub	
Native Cover Subtotal	1 33
Non-native Cover Subtotal	2 67
Total Cover Subtotal	3 100
Invasive Cover Subtotal	2 67
Vine	
Native Cover Subtotal	0 0
Non-native Cover Subtotal	0 0
Total Cover Subtotal	0 0
Invasive Cover Subtotal	0 0
Herb	
Native Cover Subtotal	74 69
Non-native Cover Subtotal	34 31
Total Cover Subtotal	108 100
Invasive Cover Subtotal	28 26
Grand Total	
Native Cover Grand Total	75 68
Non-native Cover Grand Total	36 32
Total Cover Grand Total	111 100
Invasive Cover Grand Total	30 27

UMU-1 (Hardwood Swamp - Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		5				5
<i>Acer saccharinum</i>	Native		3				3
<i>Agrostis gigantea</i>	Introduced					2	2
<i>Agrimonia gryposepala</i>	Native					3	3
<i>Boehmeria cylindrica</i>	Native					3	3
<i>Carex bebbii</i>	Native					5	5
<i>Carex blanda</i>	Native					<1	<1
<i>Carex scoparia</i>	Native					<1	<1
<i>Carex stipata</i>	Native					1	1
<i>Carex vulpinoidea</i>	Native					2	2
<i>Carya ovata</i>	Native		10	2			12
<i>Cirsium arvense</i>	Introduced	Restricted				2	2
<i>Cornus foemina</i>	Native			5			5
<i>Equisetum arvense</i>	Native					3	3
<i>Erechtites hieraciifolius</i>	Native					<1	<1
<i>Fraxinus pennsylvanica</i>	Native			3			3
<i>Geum canadense</i>	Native					3	3
<i>Glyceria striata</i>	Native					5	5
<i>Hackelia virginiana</i>	Native					2	2
<i>Impatiens capensis</i>	Native					5	5
<i>Juncus dudleyi</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		2			2
<i>Lycopus americanus</i>	Native					1	1
<i>Monarda fistulosa</i>	Native					<1	<1
<i>Parthenocissus quinquefolia</i>	Native				5		5
<i>Persicaria sagittata</i>	Native					3	3
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				30	30
<i>Populus deltoides</i>	Native		5				5
<i>Quercus macrocarpa</i>	Native		20				20
<i>Rhamnus cathartica</i>	Introduced	Restricted				1	1
<i>Rosa multiflora</i>	Introduced	Restricted		10			10
<i>Rubus allegheniensis</i>	Native			3			3
<i>Salix bebbiana</i>	Native			15			15
<i>Salix interior</i>	Native			5			5
<i>Salix nigra</i>	Native		10				10
<i>Solanum dulcamara</i>	Introduced					2	2
<i>Solidago gigantea</i>	Native					8	8
<i>Symphotrichum lateriflorum</i>	Native					1	1
<i>Thelypteris palustris</i>	Native					1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Typha angustifolia</i>	Introduced	Restricted				1	1
<i>Vitis riparia</i>	Native				7		7

Total % Cover	
Summarized	Absolute Cover Relative Cover
Tree	
Native Cover Subtotal	53 100
Non-native Cover Subtotal	0 0
Total Cover Subtotal	53 100
Invasive Cover Subtotal	0 0
Sapling/Shrub	
Native Cover Subtotal	33 73
Non-native Cover Subtotal	12 27
Total Cover Subtotal	45 100
Invasive Cover Subtotal	12 27
Vine	
Native Cover Subtotal	12 100
Non-native Cover Subtotal	0 0
Total Cover Subtotal	12 100
Invasive Cover Subtotal	0 0
Herb	
Native Cover Subtotal	48 86
Non-native Cover Subtotal	8 14
Total Cover Subtotal	56 100
Invasive Cover Subtotal	34 61
Grand Total	
Native Cover Grand Total	146 88
Non-native Cover Grand Total	20 12
Total Cover Grand Total	166 100
Invasive Cover Grand Total	46 28

UMU-1 (Shrub-carr East - Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Achillea millefolium</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Asclepias incarnata</i>	Native					1	1
<i>Asclepias syriaca</i>	Native					1	1
<i>Calystegia sepium</i>	Native				1		1
<i>Carex bebbii</i>	Native					1	1
<i>Carex normalis</i>	Native					1	1
<i>Carex stipata</i>	Native					1	1
<i>Carex vulpinoidea</i>	Native					1	1
<i>Cornus amomum</i>	Native			10			10
<i>Cornus foemina</i>	Native			2			2
<i>Cornus sericea</i>	Native			25			25
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Eleocharis palustris</i>	Native					1	1
<i>Elymus repens</i>	Introduced					1	1
<i>Erigeron philadelphicus</i>	Native					1	1
<i>Euthamia graminifolia</i>	Native					1	1
<i>Geum aleppicum</i>	Native					1	1
<i>Glyceria striata</i>	Native					1	1
<i>Impatiens capensis</i>	Native					1	1
<i>Juglans nigra</i>	Native					2	2
<i>Lonicera tatarica</i>	Introduced	Restricted		1			1
<i>Lotus corniculatus</i>	Introduced	Non-Restricted				1	1
<i>Lycopus americanus</i>	Native					1	1
<i>Malus pumila</i>	Introduced		1				1
<i>Monarda fistulosa</i>	Native					1	1
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native				1		1
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Persicaria amphibia</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				15	15
<i>Phleum pratense</i>	Introduced					1	1
<i>Poa palustris</i>	Native					1	1
<i>Poa pratensis</i>	Introduced					1	1
<i>Potentilla norvegica</i>	Native					1	1
<i>Quercus ellipsoidalis</i>	Native		1				1
<i>Rosa multiflora</i>	Introduced	Restricted		5			5
<i>Salix amygdaloides</i>	Native			2			2
<i>Salix bebbiana</i>	Native			1			1
<i>Salix discolor</i>	Native			1			1
<i>Salix interior</i>	Native			5			5
<i>Salix nigra</i>	Native		5				5
<i>Scirpus pendulus</i>	Native					1	1
<i>Solidago canadensis</i>	Native					3	3
<i>Solidago gigantea</i>	Native					2	2
<i>Spartina pectinata</i>	Native					1	1
<i>Symphotrichum firmum</i>	Native					2	2
<i>Symphotrichum lanceolatum</i>	Native					1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Verbena hastata</i>	Native					1	1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	6	86
Non-native Cover Subtotal	1	14
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	46	88
Non-native Cover Subtotal	6	12
Total Cover Subtotal	52	100
Invasive Cover Subtotal	6	12
Vine		
Native Cover Subtotal	4	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	4	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	34	61
Non-native Cover Subtotal	22	39
Total Cover Subtotal	56	100
Invasive Cover Subtotal	17	30
Grand Total		
Native Cover Grand Total	90	76
Non-native Cover Grand Total	29	24
Total Cover Grand Total	119	100
Invasive Cover Grand Total	23	19

UMU-1 (Shrub-carr North - Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		5				5
<i>Agrimonia gryposepala</i>	Native					5	5
<i>Arctium minus</i>	Introduced					3	3
<i>Boehmeria cylindrica</i>	Native					3	3
<i>Carex bebbii</i>	Native					3	3
<i>Carya ovata</i>	Native		3				3
<i>Cornus foemina</i>	Native			10			10
<i>Cornus sericea</i>	Native			5			5
<i>Dryopteris carthusiana</i>	Native					2	2
<i>Equisetum arvense</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			5		2	7
<i>Geum canadense</i>	Native					3	3
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Impatiens capensis</i>	Native					5	5
<i>Juglans nigra</i>	Native		5				5
<i>Juniperus virginiana</i>	Native		1				1
<i>Lonicera tatarica</i>	Introduced	Restricted		8			8
<i>Morus alba</i>	Introduced	Restricted	1				1
<i>Parthenocissus quinquefolia</i>	Native				7	4	11
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Persicaria virginiana</i>	Native					3	3
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				10	10
<i>Populus deltoides</i>	Native		10				10
<i>Quercus macrocarpa</i>	Native		5				5
<i>Quercus rubra</i>	Native		2				2
<i>Rhamnus cathartica</i>	Introduced	Restricted				2	2
<i>Rosa multiflora</i>	Introduced	Restricted		7			7
<i>Rubus occidentalis</i>	Native			3			3
<i>Salix interior</i>	Native			10			10
<i>Salix nigra</i>	Native		8				8
<i>Scirpus atrovirens</i>	Native					1	1
<i>Scirpus cyperinus</i>	Native					1	1
<i>Solidago gigantea</i>	Native					5	5
<i>Symphotrichum lateriflorum</i>	Native					3	3
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				1	1
<i>Vitis riparia</i>	Native				7		7

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	39	98
Non-native Cover Subtotal	1	3
Total Cover Subtotal	40	100
Invasive Cover Subtotal	1	3
Sapling/Shrub		
Native Cover Subtotal	33	69
Non-native Cover Subtotal	15	31
Total Cover Subtotal	48	100
Invasive Cover Subtotal	15	31
Vine		
Native Cover Subtotal	14	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	14	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	41	69
Non-native Cover Subtotal	18	31
Total Cover Subtotal	59	100
Invasive Cover Subtotal	14	24
Grand Total		
Native Cover Grand Total	127	79
Non-native Cover Grand Total	34	21
Total Cover Grand Total	161	100
Invasive Cover Grand Total	30	19

UMU-1 (Wet Meadow North - Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Achillea millefolium</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Asclepias incarnata</i>	Native					1	1
<i>Asclepias syriaca</i>	Native					2	2
<i>Carex pellita</i>	Native					1	1
<i>Carex stipata</i>	Native					1	1
<i>Carex vulpinoidea</i>	Native					1	1
<i>Cirsium arvense</i>	Introduced	Restricted				2	2
<i>Cirsium vulgare</i>	Introduced					1	1
<i>Cornus foemina</i>	Native			2			2
<i>Echinocystis lobata</i>	Native				1		1
<i>Elaeagnus umbellata</i>	Introduced	Restricted		1			1
<i>Eleocharis acicularis</i>	Native					1	1
<i>Erigeron strigosus</i>	Native					1	1
<i>Euthamia graminifolia</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native		1				1
<i>Hypericum perforatum</i>	Introduced	Non-Restricted				1	1
<i>Juglans nigra</i>	Native					2	2
<i>Juncus dudleyi</i>	Native					1	1
<i>Lactuca serriola</i>	Introduced					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		4			4
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Persicaria amphibia</i>	Native					1	1
<i>Persicaria hydropiper</i>	Introduced					1	1
<i>Persicaria maculosa</i>	Introduced					2	2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				35	35
<i>Plantago major</i>	Introduced					1	1
<i>Poa palustris</i>	Native					1	1
<i>Poa pratensis</i>	Introduced					13	13
<i>Rosa multiflora</i>	Introduced	Restricted		2			2
<i>Rumex crispus</i>	Introduced					2	2
<i>Sambucus canadensis</i>	Native			1			1
<i>Scirpus atrovirens</i>	Native					2	2
<i>Scirpus cyperinus</i>	Native					1	1
<i>Solidago canadensis</i>	Native					10	10
<i>Solidago gigantea</i>	Native					2	2
<i>Symphotrichum firmum</i>	Native					8	8
<i>Symphotrichum novae-angliae</i>	Native					1	1
<i>Viburnum lentago</i>	Native			5			5
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	1	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	1	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	8	53
Non-native Cover Subtotal	7	47
Total Cover Subtotal	15	100
Invasive Cover Subtotal	7	47
Vine		
Native Cover Subtotal	3	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	3	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	39	39
Non-native Cover Subtotal	61	61
Total Cover Subtotal	100	100
Invasive Cover Subtotal	38	38
Grand Total		
Native Cover Grand Total	51	43
Non-native Cover Grand Total	68	57
Total Cover Grand Total	119	100
Invasive Cover Grand Total	45	38

UMU-1 (Wet Meadow South - Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Boehmeria cylindrica</i>	Native					5	5
<i>Carex vulpinoidea</i>	Native					3	3
<i>Cirsium arvense</i>	Introduced	Restricted				4	4
<i>Glyceria striata</i>	Native					10	10
<i>Impatiens capensis</i>	Native					5	5
<i>Lycopus americanus</i>	Native					2	2
<i>Persicaria sagittata</i>	Native					7	7
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				50	50
<i>Quercus macrocarpa</i>	Native		2				2
<i>Salix bebbiana</i>	Native			5			5
<i>Scirpus cyperinus</i>	Native					2	2
<i>Solanum dulcamara</i>	Introduced					5	5
<i>Solidago gigantea</i>	Native					8	8
<i>Urtica dioica</i>	Native					3	3
<i>Vitis riparia</i>	Native				5		5

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	45	43
Non-native Cover Subtotal	59	57
Total Cover Subtotal	104	100
Invasive Cover Subtotal	54	52
Grand Total		
Native Cover Grand Total	57	49
Non-native Cover Grand Total	59	51
Total Cover Grand Total	116	100
Invasive Cover Grand Total	54	47

UMU-2 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		1				1
<i>Acer saccharinum</i>	Native					1	1
<i>Agrimonia gryposepala</i>	Native					2	2
<i>Alliaria petiolata</i>	Introduced	Restricted				1	1
<i>Anemone canadensis</i>	Native					1	1
<i>Arctium minus</i>	Introduced					1	1
<i>Arisaema triphyllum</i>	Native					1	1
<i>Athyrium filix-femina</i>	Native					1	1
<i>Boehmeria cylindrica</i>	Native					1	1
<i>Calystegia sepium</i>	Native				1		1
<i>Carex normalis</i>	Native					2	2
<i>Carex rosea</i>	Native					1	1
<i>Carex tenera</i>	Native					1	1
<i>Carex vulpinoidea</i>	Native					1	1
<i>Carya ovata</i>	Native		25				25
<i>Circaea canadensis</i>	Native					2	2
<i>Cirsium arvense</i>	Introduced	Restricted				5	5
<i>Cornus foemina</i>	Native			5			5
<i>Cornus sericea</i>	Native			5			5
<i>Crataegus mollis</i>	Native			1			1
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Echinocystis lobata</i>	Native				1		1
<i>Elymus hystrix</i>	Native					2	2
<i>Elymus villosus</i>	Native					1	1
<i>Epilobium coloratum</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			1			1
<i>Fragaria virginiana</i>	Native					1	1
<i>Galium aparine</i>	Native					1	1
<i>Geum canadense</i>	Native					1	1
<i>Glyceria striata</i>	Native					1	1
<i>Hackelia virginiana</i>	Native					1	1
<i>Impatiens capensis</i>	Native					2	2
<i>Juncus dudleyi</i>	Native					1	1
<i>Lactuca canadensis</i>	Native					1	1
<i>Laportea canadensis</i>	Native					2	2
<i>Lonicera tatarica</i>	Introduced	Restricted		2			2
<i>Lycopus americanus</i>	Native					1	1
<i>Onoclea sensibilis</i>	Native					1	1
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native				2		2
<i>Persicaria sagittata</i>	Native					1	1
<i>Persicaria virginiana</i>	Native					1	1
<i>Poa palustris</i>	Native					1	1
<i>Populus alba</i>	Introduced	Restricted	1				1
<i>Potentilla simplex</i>	Native					1	1
<i>Prunus serotina</i>	Native			2			2
<i>Quercus alba</i>	Native		5				5
<i>Quercus macrocarpa</i>	Native		15				15
<i>Quercus rubra</i>	Native		10				10
<i>Rhamnus cathartica</i>	Introduced	Restricted		2		2	4
<i>Ribes missouriense</i>	Native			1			1
<i>Rosa multiflora</i>	Introduced	Restricted		10			10
<i>Rubus allegheniensis</i>	Native			2			2
<i>Rubus occidentalis</i>	Native			1			1
<i>Sanicula odorata</i>	Native					1	1
<i>Solidago canadensis</i>	Native					1	1
<i>Solanum dulcamara</i>	Introduced					1	1
<i>Symphyotrichum lateriflorum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				1	1
<i>Toxicodendron radicans</i>	Native					2	2
<i>Trifolium hybridum</i>	Introduced					1	1
<i>Trifolium repens</i>	Introduced					1	1
<i>Ulmus americana</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		3			3
<i>Viola sororia</i>	Native					1	1
<i>Vitis riparia</i>	Native				5		5

	Total % Cover	
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	56	98
Non-native Cover Subtotal	1	2
Total Cover Subtotal	57	100
Invasive Cover Subtotal	1	2
Sapling/Shrub		
Native Cover Subtotal	18	51
Non-native Cover Subtotal	17	49
Total Cover Subtotal	35	100
Invasive Cover Subtotal	14	40
Vine		
Native Cover Subtotal	9	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	9	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	43	74
Non-native Cover Subtotal	15	26
Total Cover Subtotal	58	100
Invasive Cover Subtotal	9	16
Grand Total		
Native Cover Grand Total	126	79
Non-native Cover Grand Total	33	21
Total Cover Grand Total	159	100
Invasive Cover Grand Total	24	15

UMU-3 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		10	5			15
<i>Ageratina altissima</i>	Native					5	5
<i>Agrostis gigantea</i>	Introduced					2	2
<i>Agrimonia gryposepala</i>	Native					3	3
<i>Asclepias syriaca</i>	Native					1	1
<i>Bromus inermis</i>	Introduced	Non-Restricted				3	3
<i>Carex bebbii</i>	Native					2	2
<i>Carex vulpinoidea</i>	Native					3	3
<i>Circaea canadensis</i>	Native					5	5
<i>Cirsium arvense</i>	Introduced	Restricted				3	3
<i>Dryopteris carthusiana</i>	Native					1	1
<i>Erigeron annuus</i>	Native					2	2
<i>Fraxinus pennsylvanica</i>	Native			5			5
<i>Fragaria virginiana</i>	Native					2	2
<i>Geum canadense</i>	Native					3	3
<i>Hackelia virginiana</i>	Native					2	2
<i>Juglans nigra</i>	Native		5	5			10
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Malus pumila</i>	Introduced		20				20
<i>Onoclea sensibilis</i>	Native					2	2
<i>Oxalis stricta</i>	Native					1	1
<i>Pastinaca sativa</i>	Introduced	Restricted				10	10
<i>Persicaria amphibia</i>	Native					3	3
<i>Persicaria virginiana</i>	Native					10	10
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				35	35
<i>Phleum pratense</i>	Introduced					8	8
<i>Picea abies</i>	Introduced		15				15
<i>Pinus resinosa</i>	Native		20				20
<i>Prunella vulgaris</i>	Native					3	3
<i>Rosa multiflora</i>	Introduced	Restricted		3			3
<i>Rubus occidentalis</i>	Native			15			15
<i>Solidago canadensis</i>	Native					15	15
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				1	1
<i>Urtica dioica</i>	Native					5	5
<i>Verbena hastata</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2			2
<i>Vitis riparia</i>	Native				15		15

	Total % Cover	
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	35	50
Non-native Cover Subtotal	35	50
Total Cover Subtotal	70	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	30	75
Non-native Cover Subtotal	10	25
Total Cover Subtotal	40	100
Invasive Cover Subtotal	8	20
Vine		
Native Cover Subtotal	15	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	15	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	69	53
Non-native Cover Subtotal	62	47
Total Cover Subtotal	131	100
Invasive Cover Subtotal	49	37
Grand Total		
Native Cover Grand Total	149	58
Non-native Cover Grand Total	107	42
Total Cover Grand Total	256	100
Invasive Cover Grand Total	57	22

WMU-1 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		1	2			3
<i>Ageratina altissima</i>	Native					2	2
<i>Agrimonia gryposepala</i>	Native					<1	<1
<i>Alliaria petiolata</i>	Introduced	Restricted				1	1
<i>Anemone quinquefolia</i>	Native					2	2
<i>Anemone virginiana</i>	Native					1	1
<i>Arisaema triphyllum</i>	Native					1	1
<i>Bromus inermis</i>	Introduced	Non-Restricted				1	1
<i>Carex blanda</i>	Native					1	1
<i>Carex rosea</i>	Native					2	2
<i>Carya ovata</i>	Native		1				1
<i>Celtis occidentalis</i>	Native		3				3
<i>Centaurea stoebe</i>	Introduced	Restricted				1	1
<i>Circaea canadensis</i>	Native					5	5
<i>Convallaria majalis</i>	Introduced	Non-Restricted				1	1
<i>Cornus amomum</i>	Native			<1			<1
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Eriogon annuus</i>	Native					<1	<1
<i>Fraxinus americana</i>	Native		3				3
<i>Fraxinus pennsylvanica</i>	Native			5		5	10
<i>Galium aparine</i>	Native					2	2
<i>Geranium maculatum</i>	Native					1	1
<i>Geum canadense</i>	Native					3	3
<i>Hackelia virginiana</i>	Native					1	1
<i>Hypericum punctatum</i>	Native					1	1
<i>Juglans nigra</i>	Native		10				10
<i>Juniperus virginiana</i>	Native		1				1
<i>Lonicera reticulata</i>	Native				1		1
<i>Lonicera tatarica</i>	Introduced	Restricted		7			7
<i>Maianthemum racemosum</i>	Native					4	4
<i>Melilotus officinalis</i>	Introduced	Non-Restricted				<1	<1
<i>Monarda fistulosa</i>	Native					1	1
<i>Morus alba</i>	Introduced	Restricted	2			<1	2
<i>Oxalis stricta</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native					5	5
<i>Poa pratensis</i>	Introduced					<1	<1
<i>Podophyllum peltatum</i>	Native					3	3
<i>Populus deltoides</i>	Native		5				5
<i>Populus grandidentata</i>	Native			<1			<1
<i>Potentilla recta</i>	Introduced					<1	<1
<i>Prunus serotina</i>	Native		40			2	42
<i>Quercus alba</i>	Native		30				30
<i>Quercus macrocarpa</i>	Native		5				5
<i>Quercus velutina</i>	Native		8	1			9
<i>Rhamnus cathartica</i>	Introduced	Restricted	3	20		8	31
<i>Rhus glabra</i>	Native			10			10
<i>Ribes americanum</i>	Native			1			1
<i>Rubus occidentalis</i>	Native			1			1
<i>Sambucus canadensis</i>	Native			1			1
<i>Scrophularia marilandica</i>	Native					<1	<1
<i>Smilax herbacea</i>	Native					1	1
<i>Solidago canadensis</i>	Native					1	1
<i>Solidago gigantea</i>	Native					<1	<1
<i>Symphyotrichum lateriflorum</i>	Native					1	1
<i>Symphyotrichum pilosum</i>	Native					<1	<1
<i>Taraxacum officinale</i>	Introduced					<1	<1
<i>Tilia americana</i>	Native		1				1
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		3		2	5
<i>Viola sororia</i>	Native					1	1
<i>Vitis aestivalis</i>	Native				5		5
<i>Vitis riparia</i>	Native				2		2
<i>Zanthoxylum americanum</i>	Native			5			5

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	108	96
Non-native Cover Subtotal	5	4
Total Cover Subtotal	113	100
Invasive Cover Subtotal	5	4
Sapling/Shrub		
Native Cover Subtotal	26	46
Non-native Cover Subtotal	30	54
Total Cover Subtotal	56	100
Invasive Cover Subtotal	27	48
Vine		
Native Cover Subtotal	8	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	8	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	48	75
Non-native Cover Subtotal	16	25
Total Cover Subtotal	64	100
Invasive Cover Subtotal	11	17
Grand Total		
Native Cover Grand Total	190	79
Non-native Cover Grand Total	51	21
Total Cover Grand Total	241	100
Invasive Cover Grand Total	43	18

VMU-1 (Summer 2022)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Arctium minus</i>	Introduced					1	1
<i>Asclepias incarnata</i>	Native					<1	<1
<i>Asclepias syriaca</i>	Native					1	1
<i>Calystegia sepium</i>	Native				5		5
<i>Carex lacustris</i>	Native					1	1
<i>Cichorium intybus</i>	Introduced					<1	<1
<i>Cirsium arvense</i>	Introduced	Restricted				1	1
<i>Cirsium vulgare</i>	Introduced					1	1
<i>Cornus amomum</i>	Native			5			5
<i>Cornus sericea</i>	Native			7			7
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Echinochloa crus-galli</i>	Introduced					1	1
<i>Fraxinus pennsylvanica</i>	Native			6			6
<i>Geum canadense</i>	Native					2	2
<i>Glechoma hederacea</i>	Introduced	Caution				<1	<1
<i>Hackelia virginiana</i>	Native					2	2
<i>Hordeum jubatum</i>	Introduced					<1	<1
<i>Impatiens capensis</i>	Native					10	10
<i>Juglans nigra</i>	Native		1				1
<i>Juniperus virginiana</i>	Native			<1			<1
<i>Lactuca serriola</i>	Introduced					<1	<1
<i>Lonicera tatarica</i>	Introduced	Restricted		8			8
<i>Lysimachia nummularia</i>	Introduced	Restricted				2	2
<i>Monarda fistulosa</i>	Native					1	1
<i>Pastinaca sativa</i>	Introduced	Restricted				<1	<1
<i>Persicaria maculosa</i>	Introduced					3	3
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				15	15
<i>Populus deltoides</i>	Native		60				60
<i>Rhamnus cathartica</i>	Introduced	Restricted		7		3	10
<i>Ribes americanum</i>	Native			2			2
<i>Rubus occidentalis</i>	Native			1			1
<i>Salix discolor</i>	Native			10			10
<i>Salix nigra</i>	Native		2	5			7
<i>Sambucus canadensis</i>	Native			3			3
<i>Solanum dulcamara</i>	Introduced					2	2
<i>Solidago canadensis</i>	Native					4	4
<i>Typha angustifolia</i>	Introduced	Restricted				20	20
<i>Verbena hastata</i>	Native					1	1
<i>Verbena urticifolia</i>	Native					1	1
<i>Vitis riparia</i>	Native				4		4

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	63	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	63	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	39	72
Non-native Cover Subtotal	15	28
Total Cover Subtotal	54	100
Invasive Cover Subtotal	15	28
Vine		
Native Cover Subtotal	9	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	9	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	23	32
Non-native Cover Subtotal	48	68
Total Cover Subtotal	71	100
Invasive Cover Subtotal	41	58
Grand Total		
Native Cover Grand Total	134	68
Non-native Cover Grand Total	63	32
Total Cover Grand Total	197	100
Invasive Cover Grand Total	56	28

BMU-1 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer saccharum</i>	Native		50	15		10	75
<i>Allium tricoccum</i>	Native					2	2
<i>Cardamine concatenata</i>	Native					35	35
<i>Celtis occidentalis</i>	Native		25	1		1	27
<i>Claytonia virginica</i>	Native					<1	<1
<i>Erythronium albidum</i>	Native					45	45
<i>Fraxinus pennsylvanica</i>	Native			1		1	2
<i>Hydrophyllum virginianum</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		<1			<1
<i>Maianthemum racemosum</i>	Native					1	1
<i>Podophyllum peltatum</i>	Native					5	5
<i>Prunus serotina</i>	Native					1	1
<i>Sanguinaria canadensis</i>	Native					1	1
<i>Thalictrum thalictroides</i>	Native					7	7
<i>Tilia americana</i>	Native		25				25
<i>Viburnum opulus</i>	Introduced	Non-Restricted		1			1

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	100	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	100	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	17	94
Non-native Cover Subtotal	1	6
Total Cover Subtotal	18	100
Invasive Cover Subtotal	<1	<1
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	110	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	110	100
Invasive Cover Subtotal	0	0
Grand Total		
Native Cover Grand Total	227	100
Non-native Cover Grand Total	1	0
Total Cover Grand Total	228	100
Invasive Cover Grand Total	0	0

BMU-2 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		7	2			9
<i>Agrimonia gryposepala</i>	Native					<1	<1
<i>Anemone quinquefolia</i>	Native					<1	<1
<i>Arctium minus</i>	Introduced					<1	<1
<i>Cardamine concatenata</i>	Native					<1	<1
<i>Carex sprengei</i>	Native					1	1
<i>Catalpa speciosa</i>	Introduced		1				1
<i>Celtis occidentalis</i>	Native		3				3
<i>Cornus amomum</i>	Native			<1			<1
<i>Erigeron annuus</i>	Native					<1	<1
<i>Erythronium albidum</i>	Native					2	2
<i>Fraxinus americana</i>	Native		1				1
<i>Fraxinus pennsylvanica</i>	Native			3			3
<i>Geum canadense</i>	Native					1	1
<i>Hemerocallis fulva</i>	Introduced	Caution				2	2
<i>Hydrophyllum virginianum</i>	Native					1	1
<i>Impatiens capensis</i>	Native					2	2
<i>Juglans nigra</i>	Native		1	<1			1
<i>Leonurus cardiaca</i>	Introduced					<1	<1
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Lysimachia ciliata</i>	Native					1	1
<i>Maianthemum racemosum</i>	Native					<1	<1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				7	7
<i>Podophyllum peltatum</i>	Native					1	1
<i>Populus deltoides</i>	Native		5				5
<i>Quercus bicolor</i>	Native		1				1
<i>Rhamnus cathartica</i>	Introduced	Restricted		4			4
<i>Ribes americanum</i>	Native					4	4
<i>Salix bebbiana</i>	Native		1				1
<i>Salix nigra</i>	Native		1				1
<i>Thalictrum thalictroides</i>	Native					<1	<1
<i>Tilia americana</i>	Native		3	<1			3
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				<1	<1
<i>Ulmus americana</i>	Native		1				1
<i>Urtica dioica</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2			2
<i>Viola sororia</i>	Native					1	1
<i>Vitis aestivalis</i>	Native				1		1
<i>Vitis riparia</i>	Native				3		3

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	24	96
Non-native Cover Subtotal	1	4
Total Cover Subtotal	25	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	31
Non-native Cover Subtotal	11	69
Total Cover Subtotal	16	100
Invasive Cover Subtotal	9	56
Vine		
Native Cover Subtotal	4	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	4	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	15	63
Non-native Cover Subtotal	9	38
Total Cover Subtotal	24	100
Invasive Cover Subtotal	7	29
Grand Total		
Native Cover Grand Total	48	70
Non-native Cover Grand Total	21	30
Total Cover Grand Total	69	100
Invasive Cover Grand Total	16	23

GMU-1A (Emergent Marsh - Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Carex stricta</i>	Native					5	5
<i>Lonicera tatarica</i>	Introduced	Restricted		2			2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				35	35
<i>Typha angustifolia</i>	Introduced	Restricted				1	1

Summarized		Total % Cover	
		Absolute Cover	Relative Cover
Tree			
Native Cover Subtotal		0	0
Non-native Cover Subtotal		0	0
Total Cover Subtotal		0	0
Invasive Cover Subtotal		0	0
Sapling/Shrub			
Native Cover Subtotal		0	0
Non-native Cover Subtotal		2	100
Total Cover Subtotal		2	100
Invasive Cover Subtotal		2	100
Vine			
Native Cover Subtotal		0	0
Non-native Cover Subtotal		0	0
Total Cover Subtotal		0	0
Invasive Cover Subtotal		0	0
Herb			
Native Cover Subtotal		5	12
Non-native Cover Subtotal		36	88
Total Cover Subtotal		41	100
Invasive Cover Subtotal		36	88
Grand Total			
Native Cover Grand Total		5	12
Non-native Cover Grand Total		38	88
Total Cover Grand Total		43	100
Invasive Cover Grand Total		38	88

GMU-1A (Southern Hardwood Swamp - Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer saccharinum</i>	Native		30				30
<i>Achillea millefolium</i>	Native					1	1
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					5	5
<i>Barbarea vulgaris</i>	Introduced					1	1
<i>Carex stricta</i>	Native					1	1
<i>Cornus foemina</i>	Native			2			2
<i>Cornus sericea</i>	Native			1			1
<i>Erigeron annuus</i>	Native					2	2
<i>Galium aparine</i>	Native					<1	<1
<i>Juniperus virginiana</i>	Native		1				1
<i>Lonicera tatarica</i>	Introduced	Restricted		10			10
<i>Lysimachia nummularia</i>	Introduced	Restricted				1	1
<i>Malus pumila</i>	Introduced		1				1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				20	20
<i>Populus deltoides</i>	Native		15				15
<i>Rhamnus cathartica</i>	Introduced	Restricted				3	3
<i>Ribes americanum</i>	Native			1			1
<i>Rosa multiflora</i>	Introduced	Restricted		3			3
<i>Salix discolor</i>	Native		1	5			6
<i>Salix interior</i>	Native			2			2
<i>Salix nigra</i>	Native		10				10
<i>Symphotrichum lanceolatum</i>	Native					2	2
<i>Symphotrichum lateriflorum</i>	Native					2	2
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Trifolium pratense</i>	Introduced					1	1
<i>Viola sororia</i>	Native					2	2
<i>Vitis riparia</i>	Native				5		5

Total % Cover	
Summarized	Absolute Cover
Tree	Relative Cover
Native Cover Subtotal	57
Non-native Cover Subtotal	1
Total Cover Subtotal	58
Invasive Cover Subtotal	0
Sapling/Shrub	
Native Cover Subtotal	11
Non-native Cover Subtotal	13
Total Cover Subtotal	24
Invasive Cover Subtotal	13
Vine	
Native Cover Subtotal	5
Non-native Cover Subtotal	0
Total Cover Subtotal	5
Invasive Cover Subtotal	0
Herb	
Native Cover Subtotal	11
Non-native Cover Subtotal	32
Total Cover Subtotal	43
Invasive Cover Subtotal	24
Grand Total	
Native Cover Grand Total	84
Non-native Cover Grand Total	46
Total Cover Grand Total	130
Invasive Cover Grand Total	37

GMU-1A (Wet Meadow - Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Achillea millefolium</i>	Native					1	1
<i>Barbarea vulgaris</i>	Introduced					1	1
<i>Calamagrostis canadensis</i>	Native					2	2
<i>Carex pellita</i>	Native					2	2
<i>Carex stricta</i>	Native					20	20
<i>Cicuta maculata</i>	Native					1	1
<i>Cornus foemina</i>	Native			5			5
<i>Cornus sericea</i>	Native			2			2
<i>Elaeagnus umbellata</i>	Introduced	Restricted				1	1
<i>Fraxinus pennsylvanica</i>	Native					1	1
<i>Galium aparine</i>	Native					1	1
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Lonicera tatarica</i>	Introduced	Restricted				20	20
<i>Lysimachia nummularia</i>	Introduced	Restricted				1	1
<i>Packera plattensis</i>	Native					<1	<1
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				30	30
<i>Populus deltoides</i>	Native					1	1
<i>Rhamnus cathartica</i>	Introduced	Restricted		5			5
<i>Ribes americanum</i>	Native			1			1
<i>Rosa multiflora</i>	Introduced	Restricted		1			1
<i>Rubus allegheniensis</i>	Native			1			1
<i>Scirpus cyperinus</i>	Native					1	1
<i>Thalictrum dasycarpum</i>	Native					1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	9	60
Non-native Cover Subtotal	6	40
Total Cover Subtotal	15	100
Invasive Cover Subtotal	6	40
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	32	37
Non-native Cover Subtotal	55	63
Total Cover Subtotal	87	100
Invasive Cover Subtotal	53	61
Grand Total		
Native Cover Grand Total	43	41
Non-native Cover Grand Total	61	59
Total Cover Grand Total	104	100
Invasive Cover Grand Total	59	57

GMU-1B (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer saccharinum</i>	Native		1				1
<i>Agrostis gigantea</i>	Introduced					3	3
<i>Arctium minus</i>	Introduced					<1	<1
<i>Barbarea vulgaris</i>	Introduced					1	1
<i>Carex stricta</i>	Native					10	8
<i>Cirsium vulgare</i>	Introduced					<1	<1
<i>Dactylis glomerata</i>	Introduced					1	1
<i>Erigeron annuus</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			1			1
<i>Geum canadense</i>	Native					1	1
<i>Hemerocallis fulva</i>	Introduced	Caution				1	1
<i>Impatiens capensis</i>	Native					1	1
<i>Juglans nigra</i>	Native		1				1
<i>Monarda fistulosa</i>	Native					<1	<1
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				10	10
<i>Poa pratensis</i>	Introduced					5	5
<i>Populus deltoides</i>	Native		2				2
<i>Ranunculus recurvatus</i>	Native					1	1
<i>Robinia pseudoacacia</i>	Introduced	Restricted	1				1
<i>Rubus occidentalis</i>	Native			1			1
<i>Salix discolor</i>	Native			1			1
<i>Salix nigra</i>	Native		2				2
<i>Sambucus canadensis</i>	Native			3			3
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Typha angustifolia</i>	Introduced	Restricted				1	1
<i>Urtica dioica</i>	Native					1	1
<i>Vitis riparia</i>	Native				2		2

Total % Cover	
Summarized	Absolute Cover
Tree	
Native Cover Subtotal	6
Non-native Cover Subtotal	1
Total Cover Subtotal	7
Invasive Cover Subtotal	1
Sapling/Shrub	
Native Cover Subtotal	6
Non-native Cover Subtotal	0
Total Cover Subtotal	6
Invasive Cover Subtotal	0
Vine	
Native Cover Subtotal	2
Non-native Cover Subtotal	0
Total Cover Subtotal	2
Invasive Cover Subtotal	0
Herb	
Native Cover Subtotal	14
Non-native Cover Subtotal	24
Total Cover Subtotal	38
Invasive Cover Subtotal	12
Grand Total	
Native Cover Grand Total	28
Non-native Cover Grand Total	25
Total Cover Grand Total	53
Invasive Cover Grand Total	13

GMU-2A (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Agrostis gigantea</i>	Introduced					2	2
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Barbarea vulgaris</i>	Introduced					1	1
<i>Carex blanda</i>	Native					1	1
<i>Cornus foemina</i>	Native			10			10
<i>Dactylis glomerata</i>	Introduced					2	2
<i>Daucus carota</i>	Introduced	Non-Restricted				2	2
<i>Duchesnea indica</i>	Introduced					1	1
<i>Erigeron strigosus</i>	Native					2	2
<i>Fraxinus pennsylvanica</i>	Native					1	1
<i>Fragaria virginiana</i>	Native					1	1
<i>Geum canadense</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		20			20
<i>Lysimachia nummularia</i>	Introduced	Restricted				1	1
<i>Monarda fistulosa</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native					1	1
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				3	3
<i>Poa pratensis</i>	Introduced					7	7
<i>Prunus serotina</i>	Native					1	1
<i>Quercus ellipsoidalis</i>	Native		1				1
<i>Quercus macrocarpa</i>	Native					2	2
<i>Ranunculus abortivus</i>	Native					<1	<1
<i>Rhamnus cathartica</i>	Introduced	Restricted		5			5
<i>Rosa multiflora</i>	Introduced	Restricted		3			3
<i>Rubus allegheniensis</i>	Native					2	2
<i>Rubus occidentalis</i>	Native					1	1
<i>Symphotrichum lateriflorum</i>	Native					2	2
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Trifolium pratense</i>	Introduced					1	1
<i>Verbascum thapsus</i>	Introduced					1	1
<i>Viburnum dentatum</i>	Introduced					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted				2	2
<i>Vitis riparia</i>	Native					1	1

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	1	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	1	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	10	26
Non-native Cover Subtotal	28	74
Total Cover Subtotal	38	100
Invasive Cover Subtotal	28	74
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	41
Non-native Cover Subtotal	26	59
Total Cover Subtotal	44	100
Invasive Cover Subtotal	5	11
Grand Total		
Native Cover Grand Total	29	35
Non-native Cover Grand Total	54	65
Total Cover Grand Total	83	100
Invasive Cover Grand Total	33	40

GMU-2B (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Achillea millefolium</i>	Native					1	1
<i>Agrostis gigantea</i>	Introduced					3	3
<i>Agrimonia gryposepala</i>	Native					2	2
<i>Bromus inermis</i>	Introduced	Non-restricted				5	5
<i>Cornus foemina</i>	Native			35			35
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Erigeron annuus</i>	Native					2	2
<i>Fraxinus pennsylvanica</i>	Native		<1				<1
<i>Fragaria virginiana</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		20			20
<i>Monarda fistulosa</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native					2	2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				10	10
<i>Poa pratensis</i>	Introduced					7	7
<i>Quercus macrocarpa</i>	Native		<1				<1
<i>Rhus glabra</i>	Native			3			3
<i>Rubus allegheniensis</i>	Native			5			5
<i>Salix humilis</i>	Native			10			10
<i>Symphotrichum lateriflorum</i>	Native					2	2
<i>Viburnum dentatum</i>	Introduced			2			2
<i>Vitis aestivalis</i>	Native				2		2
<i>Vitis riparia</i>	Native				6		6

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	<1	<1
Non-native Cover Subtotal	0	0
Total Cover Subtotal	<1	<1
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	53	71
Non-native Cover Subtotal	22	29
Total Cover Subtotal	75	100
Invasive Cover Subtotal	20	27
Vine		
Native Cover Subtotal	8	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	8	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	11	30
Non-native Cover Subtotal	26	70
Total Cover Subtotal	37	100
Invasive Cover Subtotal	10	27
Grand Total		
Native Cover Grand Total	72	60
Non-native Cover Grand Total	48	40
Total Cover Grand Total	120	100
Invasive Cover Grand Total	30	25

GMU-3A (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		70	5			75
<i>Alliaria petiolata</i>	Introduced	Restricted				2	2
<i>Arctium minus</i>	Introduced					1	1
<i>Cirsium arvense</i>	Introduced	Restricted				1	1
<i>Cryptotaenia canadensis</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Hemerocallis fulva</i>	Introduced	Caution				1	1
<i>Impatiens capensis</i>	Native					1	1
<i>Juglans nigra</i>	Native		5				5
<i>Leonurus cardiaca</i>	Introduced					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		40			40
<i>Lysimachia nummularia</i>	Introduced	Restricted				1	1
<i>Morus alba</i>	Introduced	Restricted	1				1
<i>Onoclea sensibilis</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				6	6
<i>Ranunculus hispidus</i>	Native					1	1
<i>Rhamnus cathartica</i>	Introduced	Restricted		5			5
<i>Sambucus canadensis</i>	Native			2			2
<i>Scrophularia marilandica</i>	Native					1	1
<i>Ulmus americana</i>	Native		1				1
<i>Urtica dioica</i>	Native					1	1
<i>Viola sororia</i>	Native					1	1

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	76	99
Non-native Cover Subtotal	1	1
Total Cover Subtotal	77	100
Invasive Cover Subtotal	1	1
Sapling/Shrub		
Native Cover Subtotal	7	13
Non-native Cover Subtotal	45	87
Total Cover Subtotal	52	100
Invasive Cover Subtotal	45	87
Vine		
Native Cover Subtotal	0	0
Non-native Cover Subtotal	0	0
Total Cover Subtotal	0	0
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	9	39
Non-native Cover Subtotal	14	61
Total Cover Subtotal	23	100
Invasive Cover Subtotal	10	43
Grand Total		
Native Cover Grand Total	92	61
Non-native Cover Grand Total	60	39
Total Cover Grand Total	152	100
Invasive Cover Grand Total	56	37

GMU-3B (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		35				35
<i>Alliaria petiolata</i>	Introduced	Restricted				2	2
<i>Anemone virginiana</i>	Native					1	1
<i>Arctium minus</i>	Introduced					1	1
<i>Barbarea vulgaris</i>	Introduced					1	1
<i>Carya ovata</i>	Native		30	2			32
<i>Carex pensylvanica</i>	Native					2	2
<i>Celtis occidentalis</i>	Native					1	1
<i>Elymus virginicus</i>	Native					2	2
<i>Floerkea proserpinacoides</i>	Native					1	2
<i>Fraxinus pennsylvanica</i>	Native					1	1
<i>Galium aparine</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Glechoma hederacea</i>	Introduced	Caution				1	2
<i>Hesperis matronalis</i>	Introduced	Restricted				1	1
<i>Impatiens capensis</i>	Native					2	2
<i>Juglans nigra</i>	Native		4				4
<i>Leonurus cardiaca</i>	Introduced					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Parthenocissus quinquefolia</i>	Native				5	20	25
<i>Persicaria virginiana</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				15	15
<i>Podophyllum peltatum</i>	Native					1	1
<i>Populus deltoides</i>	Native		5			1	6
<i>Potentilla simplex</i>	Native					1	1
<i>Prunus serotina</i>	Native		25				25
<i>Prunus virginiana</i>	Native			<1			<1
<i>Quercus alba</i>	Native		1				1
<i>Quercus macrocarpa</i>	Native		2				2
<i>Quercus rubra</i>	Native		10				10
<i>Ranunculus hispidus</i>	Native					1	1
<i>Rhamnus cathartica</i>	Introduced	Restricted		4		3	7
<i>Robinia pseudoacacia</i>	Introduced	Restricted	5				5
<i>Rubus occidentalis</i>	Native			2			2
<i>Sambucus canadensis</i>	Native			5			5
<i>Solidago canadensis</i>	Native					1	1
<i>Urtica dioica</i>	Native					1	1
<i>Viola sororia</i>	Native					1	1
<i>Vitis aestivalis</i>	Native				1		1
<i>Vitis riparia</i>	Native				3		3

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	112	96
Non-native Cover Subtotal	5	4
Total Cover Subtotal	117	100
Invasive Cover Subtotal	5	4
Sapling/Shrub		
Native Cover Subtotal	9	50
Non-native Cover Subtotal	9	50
Total Cover Subtotal	18	100
Invasive Cover Subtotal	9	50
Vine		
Native Cover Subtotal	9	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	9	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	41	63
Non-native Cover Subtotal	24	37
Total Cover Subtotal	65	100
Invasive Cover Subtotal	21	32
Grand Total		
Native Cover Grand Total	171	82
Non-native Cover Grand Total	38	18
Total Cover Grand Total	209	100
Invasive Cover Grand Total	35	17

ITMU-1 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native			5			5
<i>Acer platanoides</i>	Introduced	Caution	<1	1		<1	1
<i>Allium canadense</i>	Native					1	1
<i>Allium tricoccum</i>	Native					1	1
<i>Anemone quinquefolia</i>	Native					1	1
<i>Anemone virginiana</i>	Native					1	1
<i>Barbarea vulgaris</i>	Introduced					1	1
<i>Betula papyrifera</i>	Native		<1				<1
<i>Carex pensylvanica</i>	Native					3	3
<i>Carya ovata</i>	Native		7	1			8
<i>Catalpa speciosa</i>	Introduced			<1			<1
<i>Celastrus orbiculatus</i>	Introduced	Restricted			10		10
<i>Celtis occidentalis</i>	Native		15	5		3	23
<i>Cercis canadensis</i>	Introduced			<1			<1
<i>Cornus foemina</i>	Native			5			5
<i>Elymus hystrix</i>	Native					1	1
<i>Elymus villosus</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			5			5
<i>Galium aparine</i>	Native					1	1
<i>Geranium maculatum</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Hydrophyllum virginianum</i>	Native					1	1
<i>Juglans nigra</i>	Native		20				20
<i>Juniperus virginiana</i>	Native		<1	<1			<1
<i>Ligustrum vulgare</i>	Introduced	Caution		<1			<1
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Maianthemum racemosum</i>	Native					1	1
<i>Monarda fistulosa</i>	Native					<1	<1
<i>Morus alba</i>	Introduced	Restricted	1				1
<i>Parthenocissus quinquefolia</i>	Native					15	15
<i>Persicaria virginiana</i>	Native					1	1
<i>Picea abies</i>	Introduced		<1				<1
<i>Pinus resinosa</i>	Native		1				1
<i>Podophyllum peltatum</i>	Native					2	2
<i>Populus tremuloides</i>	Native		<1				<1
<i>Primula meadia</i>	Native					1	1
<i>Prunus serotina</i>	Native		5	1			6
<i>Quercus alba</i>	Native		15				15
<i>Quercus ellipsoidalis</i>	Native		<1				<1
<i>Quercus macrocarpa</i>	Native		5				5
<i>Quercus rubra</i>	Native		20	1			21
<i>Rhamnus cathartica</i>	Introduced	Restricted		3		1	4
<i>Rhus glabra</i>	Native			<1			<1
<i>Ribes americanum</i>	Native			1			1
<i>Rosa multiflora</i>	Introduced	Restricted		<1			<1
<i>Rubus allegheniensis</i>	Native			1			1
<i>Rubus occidentalis</i>	Native			3			3
<i>Sambucus canadensis</i>	Native			2			2
<i>Sanguinaria canadensis</i>	Native					1	1
<i>Scrophularia marilandica</i>	Native					1	1
<i>Smilax herbacea</i>	Native				1		1
<i>Tilia americana</i>	Native		15	1			16
<i>Trillium recurvatum</i>	Native					1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Ulmus americana</i>	Native			1			1
<i>Uvularia grandiflora</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2			2
<i>Viola sororia</i>	Native					1	1
<i>Vitis aestivalis</i>	Native					1	1
<i>Vitis riparia</i>	Native				5		5
<i>Zanthoxylum americanum</i>	Native			2			2

Summarized	Total % Cover	
	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	103	99
Non-native Cover Subtotal	1	1
Total Cover Subtotal	104	100
Invasive Cover Subtotal	1	1
Sapling/Shrub		
Native Cover Subtotal	34	76
Non-native Cover Subtotal	11	24
Total Cover Subtotal	45	100
Invasive Cover Subtotal	8	18
Vine		
Native Cover Subtotal	7	41
Non-native Cover Subtotal	10	59
Total Cover Subtotal	17	100
Invasive Cover Subtotal	10	59
Herb		
Native Cover Subtotal	43	96
Non-native Cover Subtotal	2	4
Total Cover Subtotal	45	100
Invasive Cover Subtotal	1	2
Grand Total		
Native Cover Grand Total	187	89
Non-native Cover Grand Total	24	11
Total Cover Grand Total	211	100
Invasive Cover Grand Total	20	9

ITMU-2 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		1				1
<i>Acer platanoides</i>	Introduced	Caution		2			2
<i>Acer saccharinum</i>	Native		5				5
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Alliaria petiolata</i>	Introduced	Restricted				<1	<1
<i>Calamagrostis canadensis</i>	Native					1	1
<i>Carex blanda</i>	Native					1	1
<i>Carex stricta</i>	Native					2	2
<i>Celtis occidentalis</i>	Native			2		1	3
<i>Cornus sericea</i>	Native			10			10
<i>Crataegus mollis</i>	Native			1			1
<i>Erigeron annuus</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native		10	5			15
<i>Galium aparine</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Geum laciniatum</i>	Native					1	1
<i>Gleditsia triacanthos</i>	Native		1				1
<i>Hesperis matronalis</i>	Introduced	Restricted				1	1
<i>Impatiens capensis</i>	Native					1	1
<i>Juglans nigra</i>	Native		5				5
<i>Lactuca serriola</i>	Introduced					<1	<1
<i>Lonicera tatarica</i>	Introduced	Restricted		10			10
<i>Monarda fistulosa</i>	Native					<1	<1
<i>Morus alba</i>	Introduced	Restricted		1		1	2
<i>Parthenocissus quinquefolia</i>	Native				2		2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				7	7
<i>Poa pratensis</i>	Introduced					1	1
<i>Populus deltoides</i>	Native		5				5
<i>Prunus americana</i>	Native			2			2
<i>Prunus virginiana</i>	Native			1			1
<i>Quercus bicolor</i>	Native		<1				<1
<i>Rhamnus cathartica</i>	Introduced	Restricted		5			5
<i>Ribes americanum</i>	Native			3			3
<i>Robinia pseudoacacia</i>	Introduced	Restricted		1			1
<i>Rosa multiflora</i>	Introduced	Restricted		1			1
<i>Rubus occidentalis</i>	Native			2			2
<i>Salix alba</i> f. cv. 'Vitellina'	Excluded		10				10
<i>Salix interior</i>	Native			1			1
<i>Salix nigra</i>	Native			1			1
<i>Sambucus canadensis</i>	Native			2			2
<i>Scirpus atrovirens</i>	Native					<1	<1
<i>Symphotrichum lateriflorum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Thuja occidentalis</i>	Native		5				5
<i>Viburnum lentago</i>	Native			1			1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		5			5
<i>Viola sororia</i>	Native					2	2
<i>Vitis aestivalis</i>	Native				2		2
<i>Vitis riparia</i>	Native				2		2

	Total % Cover	
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	32	76
Non-native Cover Subtotal	10	24
Total Cover Subtotal	42	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	31	55
Non-native Cover Subtotal	25	45
Total Cover Subtotal	56	100
Invasive Cover Subtotal	18	32
Vine		
Native Cover Subtotal	6	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	6	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	15	58
Non-native Cover Subtotal	11	42
Total Cover Subtotal	26	100
Invasive Cover Subtotal	9	35
Grand Total		
Native Cover Grand Total	84	65
Non-native Cover Grand Total	46	35
Total Cover Grand Total	130	100
Invasive Cover Grand Total	27	21

MMU-1 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native			1			1
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Alliaria petiolata</i>	Introduced	Restricted				1	1
<i>Allium canadense</i>	Native					1	1
<i>Anemone quinquefolia</i>	Native					2	2
<i>Betula papyrifera</i>	Native		1				1
<i>Carex pensylvanica</i>	Native					2	2
<i>Carya ovata</i>	Native		50	25			75
<i>Celtis occidentalis</i>	Native		1			1	2
<i>Cornus foemina</i>	Native			5			5
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Elaeagnus umbellata</i>	Introduced	Restricted		1			1
<i>Erythronium albidum</i>	Native					20	20
<i>Floerkea proserpinacoides</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native					1	1
<i>Galium aparine</i>	Native					1	1
<i>Geranium maculatum</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Hesperis matronalis</i>	Introduced	Restricted				1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		3			3
<i>Parthenocissus quinquefolia</i>	Native				10		10
<i>Persicaria virginiana</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				2	2
<i>Podophyllum peltatum</i>	Native					5	5
<i>Populus tremuloides</i>	Native		1				1
<i>Primula meadia</i>	Native					1	1
<i>Prunus serotina</i>	Native		2	2			4
<i>Prunus virginiana</i>	Native			3			3
<i>Quercus alba</i>	Native		15				15
<i>Quercus macrocarpa</i>	Native		20	1			21
<i>Quercus rubra</i>	Native			1			1
<i>Rhamnus cathartica</i>	Introduced	Restricted		1		4	5
<i>Ribes missouriense</i>	Native			1			1
<i>Robinia pseudoacacia</i>	Introduced	Restricted				1	1
<i>Rosa multiflora</i>	Introduced	Restricted		1			1
<i>Rubus allegheniensis</i>	Native			5			5
<i>Rubus occidentalis</i>	Native			2			2
<i>Sanguinaria canadensis</i>	Native					1	1
<i>Scrophularia marilandica</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Toxicodendron radicans</i>	Native				3		3
<i>Urtica dioica</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2			2
<i>Viola sororia</i>	Native					1	1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	90	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	90	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	46	85
Non-native Cover Subtotal	8	15
Total Cover Subtotal	54	100
Invasive Cover Subtotal	6	11
Vine		
Native Cover Subtotal	15	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	15	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	44	80
Non-native Cover Subtotal	11	20
Total Cover Subtotal	55	100
Invasive Cover Subtotal	9	16
Grand Total		
Native Cover Grand Total	195	91
Non-native Cover Grand Total	19	9
Total Cover Grand Total	214	100
Invasive Cover Grand Total	15	7

MMU-2 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer ginnala</i>	Introduced	Restricted				1	1
<i>Achillea millefolium</i>	Native					1	1
<i>Agrimonia gryposepala</i>	Native					<1	<1
<i>Barbarea vulgaris</i>	Introduced					1	1
<i>Betula papyrifera</i>	Native			1			1
<i>Bromus inermis</i>	Introduced	Non-Restricted				5	5
<i>Carya ovata</i>	Native					1	1
<i>Cornus amomum</i>	Native			5			5
<i>Cornus foemina</i>	Native			10			10
<i>Daucus carota</i>	Introduced	Non-Restricted				2	2
<i>Elaeagnus umbellata</i>	Introduced	Restricted		1			1
<i>Erigeron annuus</i>	Native					1	1
<i>Juglans nigra</i>	Native					1	1
<i>Lactuca serriola</i>	Introduced					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Monarda fistulosa</i>	Native					1	1
<i>Morus alba</i>	Introduced	Restricted				1	1
<i>Poa pratensis</i>	Introduced					5	5
<i>Prunus serotina</i>	Native			1			1
<i>Quercus alba</i>	Native					1	1
<i>Quercus macrocarpa</i>	Native			2			2
<i>Rhamnus cathartica</i>	Introduced	Restricted		1			1
<i>Rubus idaeus</i>	Native					1	1
<i>Rubus occidentalis</i>	Native			1			1
<i>Salix interior</i>	Native			1			1
<i>Smilax herbacea</i>	Native					1	1
<i>Symphotrichum lateriflorum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Ulmus rubra</i>	Native		3				3
<i>Viola sororia</i>	Native					<1	<1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	3	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	3	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	21	75
Non-native Cover Subtotal	7	25
Total Cover Subtotal	28	100
Invasive Cover Subtotal	7	25
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	10	37
Non-native Cover Subtotal	17	63
Total Cover Subtotal	27	100
Invasive Cover Subtotal	2	7
Grand Total		
Native Cover Grand Total	36	60
Non-native Cover Grand Total	24	40
Total Cover Grand Total	60	100
Invasive Cover Grand Total	9	15

MMU-3 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		3	1			4
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Arctium minus</i>	Introduced					1	1
<i>Calamagrostis canadensis</i>	Native					3	3
<i>Carex stricta</i>	Native					5	5
<i>Cornus amomum</i>	Native			5			5
<i>Cornus foemina</i>	Native			5			5
<i>Elaeagnus umbellata</i>	Introduced	Restricted		<1			<1
<i>Fragaria virginiana</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			<1			<1
<i>Geum canadense</i>	Native					1	1
<i>Impatiens capensis</i>	Native					1	1
<i>Juglans nigra</i>	Native		1				1
<i>Lonicera tatarica</i>	Introduced	Restricted		2			2
<i>Morus alba</i>	Introduced	Restricted	1				1
<i>Parthenocissus quinquefolia</i>	Native				1	1	2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				10	10
<i>Populus deltoides</i>	Native		8				8
<i>Rhamnus cathartica</i>	Introduced	Restricted		2		2	4
<i>Rubus occidentalis</i>	Native			2			2
<i>Salix alba</i> f. cv. 'Vitellina'	Excluded			<1			<1
<i>Salix discolor</i>	Native		2	6			8
<i>Salix interior</i>	Native			10			10
<i>Salix nigra</i>	Native		15				15
<i>Sambucus canadensis</i>	Native			1			1
<i>Scirpus atrovirens</i>	Native					1	1
<i>Symphotrichum lanceolatum</i>	Native					2	2
<i>Toxicodendron radicans</i>	Native					1	1
<i>Urtica dioica</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2		2	4
<i>Viola sororia</i>	Native					1	1
<i>Vitis riparia</i>	Native				1		1

	Total % Cover	
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	29	97
Non-native Cover Subtotal	1	3
Total Cover Subtotal	30	100
Invasive Cover Subtotal	1	3
Sapling/Shrub		
Native Cover Subtotal	30	83
Non-native Cover Subtotal	6	17
Total Cover Subtotal	36	100
Invasive Cover Subtotal	4	11
Vine		
Native Cover Subtotal	2	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	2	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	53
Non-native Cover Subtotal	16	47
Total Cover Subtotal	34	100
Invasive Cover Subtotal	12	35
Grand Total		
Native Cover Grand Total	79	77
Non-native Cover Grand Total	23	23
Total Cover Grand Total	102	100
Invasive Cover Grand Total	17	17

SMU-1 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native			1			1
<i>Alliaria petiolata</i>	Introduced	Restricted				1	1
<i>Allium tricoccum</i>	Native					3	3
<i>Anemone quinquefolia</i>	Native					2	2
<i>Arctium minus</i>	Introduced					<1	<1
<i>Arisaema triphyllum</i>	Native					<1	<1
<i>Carduus nutans</i>	Introduced	Restricted				<1	<1
<i>Carex pensylvanica</i>	Native					1	1
<i>Carya cordiformis</i>	Native		1				1
<i>Carya ovata</i>	Native		8				8
<i>Celtis occidentalis</i>	Native		25			1	26
<i>Cirsium vulgare</i>	Introduced					1	1
<i>Crataegus mollis</i>	Native			1			1
<i>Fraxinus americana</i>	Native		1				1
<i>Fraxinus pennsylvanica</i>	Native			2		1	3
<i>Galium aparine</i>	Native					1	1
<i>Geranium maculatum</i>	Native					5	5
<i>Geum canadense</i>	Native					1	1
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Hackelia virginiana</i>	Native					1	1
<i>Hemerocallis fulva</i>	Introduced	Caution				<1	<1
<i>Ligustrum vulgare</i>	Introduced	Caution		<1			<1
<i>Lonicera reticulata</i>	Native				2		2
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Maianthemum racemosum</i>	Native					1	1
<i>Morus alba</i>	Introduced	Restricted		1		<1	1
<i>Parthenocissus quinquefolia</i>	Native				1	10	11
<i>Podophyllum peltatum</i>	Native					8	8
<i>Prunus serotina</i>	Native		15				15
<i>Quercus alba</i>	Native		30				30
<i>Quercus macrocarpa</i>	Native		5				5
<i>Rhamnus cathartica</i>	Introduced	Restricted		7		5	12
<i>Rhus glabra</i>	Native			1			1
<i>Rubus occidentalis</i>	Native					1	1
<i>Scrophularia marilandica</i>	Native					<1	<1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Tilia americana</i>	Native		5				5
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				<1	<1
<i>Toxicodendron radicans</i>	Native					<1	<1
<i>Trillium recurvatum</i>	Native					<1	<1
<i>Ulmus americana</i>	Native		1				1
<i>Ulmus rubra</i>	Native		1				1
<i>Verbascum thapsus</i>	Introduced					1	1
<i>Vitis aestivalis</i>	Native				<1		<1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	92	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	92	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	5	28
Non-native Cover Subtotal	13	72
Total Cover Subtotal	18	100
Invasive Cover Subtotal	13	72
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	36	78
Non-native Cover Subtotal	10	22
Total Cover Subtotal	46	100
Invasive Cover Subtotal	6	13
Grand Total		
Native Cover Grand Total	138	86
Non-native Cover Grand Total	23	14
Total Cover Grand Total	161	100
Invasive Cover Grand Total	19	12

TMU-1 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		1			<1	<1
<i>Alliaria petiolata</i>	Introduced	Restricted				<1	<1
<i>Carya ovata</i>	Native		4	1		2	7
<i>Carex pensylvanica</i>	Native					1	1
<i>Celtis occidentalis</i>	Native					1	1
<i>Fraxinus americana</i>	Native		2				2
<i>Fraxinus pennsylvanica</i>	Native			5		3	8
<i>Geum canadense</i>	Native					1	1
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Hackelia virginiana</i>	Native					<1	<1
<i>Lonicera tatarica</i>	Introduced	Restricted		10			10
<i>Morus alba</i>	Introduced	Restricted	8				8
<i>Parthenocissus quinquefolia</i>	Native					1	1
<i>Pinus resinosa</i>	Native		75				75
<i>Prunus serotina</i>	Native		15				15
<i>Ranunculus abortivus</i>	Native					<1	<1
<i>Rhamnus cathartica</i>	Introduced	Restricted	1	10		15	26
<i>Rubus occidentalis</i>	Native					<1	<1
<i>Securigera varia</i>	Introduced	Restricted				1	1
<i>Smilax herbacea</i>	Native					<1	<1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		4		3	7
<i>Vitis aestivalis</i>	Native				5		5
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	97	92
Non-native Cover Subtotal	9	8
Total Cover Subtotal	106	100
Invasive Cover Subtotal	9	8
Sapling/Shrub		
Native Cover Subtotal	6	20
Non-native Cover Subtotal	24	80
Total Cover Subtotal	30	100
Invasive Cover Subtotal	20	67
Vine		
Native Cover Subtotal	7	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	10	32
Non-native Cover Subtotal	21	68
Total Cover Subtotal	31	100
Invasive Cover Subtotal	16	52
Grand Total		
Native Cover Grand Total	120	69
Non-native Cover Grand Total	54	31
Total Cover Grand Total	174	100
Invasive Cover Grand Total	45	26

TMU-2 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Anemone quinquefolia</i>	Native					1	1
<i>Arctium minus</i>	Introduced					1	1
<i>Bromus inermis</i>	Introduced	Non-Restricted				15	15
<i>Centaurea stoebe</i>	Introduced	Restricted				<1	<1
<i>Cirsium vulgare</i>	Introduced					<1	<1
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Erigeron annuus</i>	Native					1	1
<i>Fraxinus americana</i>	Native		1				1
<i>Geum canadense</i>	Native					1	1
<i>Hackelia virginiana</i>	Native					<1	<1
<i>Hesperis matronalis</i>	Introduced	Restricted				1	1
<i>Juglans nigra</i>	Native		45	10			55
<i>Juniperus virginiana</i>	Native			1			1
<i>Lonicera tatarica</i>	Introduced	Restricted		3			3
<i>Melilotus officinalis</i>	Introduced	Non-Restricted				1	1
<i>Monarda fistulosa</i>	Native					2	2
<i>Morus alba</i>	Introduced	Restricted	2				2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				2	2
<i>Poa pratensis</i>	Introduced					30	30
<i>Populus deltoides</i>	Native		2				2
<i>Quercus velutina</i>	Native		1				1
<i>Ranunculus abortivus</i>	Native					<1	<1
<i>Rhamnus cathartica</i>	Introduced	Restricted		2			2
<i>Rhus glabra</i>	Native			20			20
<i>Rubus occidentalis</i>	Native			2			2
<i>Sambucus canadensis</i>	Native			1			1
<i>Securigera varia</i>	Introduced	Restricted				5	5
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Viola sororia</i>	Native					1	1
<i>Vitis riparia</i>	Native				5		5

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	49	96
Non-native Cover Subtotal	2	4
Total Cover Subtotal	51	100
Invasive Cover Subtotal	2	4
Sapling/Shrub		
Native Cover Subtotal	34	87
Non-native Cover Subtotal	5	13
Total Cover Subtotal	39	100
Invasive Cover Subtotal	5	13
Vine		
Native Cover Subtotal	5	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	5	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	6	10
Non-native Cover Subtotal	57	90
Total Cover Subtotal	63	100
Invasive Cover Subtotal	8	13
Grand Total		
Native Cover Grand Total	94	59
Non-native Cover Grand Total	64	41
Total Cover Grand Total	158	100
Invasive Cover Grand Total	15	9

UMU-1 (Emergent Marsh - Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Agrostis gigantea</i>	Introduced					2	2
<i>Eleocharis erythropoda</i>	Native					1	1
<i>Equisetum arvense</i>	Native					<1	<1
<i>Geum canadense</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		2			2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				25	25
<i>Rubus allegheniensis</i>	Native			1			1
<i>Symphyotrichum lanceolatum</i>	Native					3	3
<i>Typha angustifolia</i>	Introduced	Restricted				1	1
<i>Urtica dioica</i>	Native					1	1

		Total % Cover	
Summarized		Absolute Cover	Relative Cover
Tree			
Native Cover Subtotal		0	0
Non-native Cover Subtotal		0	0
Total Cover Subtotal		0	0
Invasive Cover Subtotal		0	0
Sapling/Shrub			
Native Cover Subtotal		1	33
Non-native Cover Subtotal		2	67
Total Cover Subtotal		3	100
Invasive Cover Subtotal		2	67
Vine			
Native Cover Subtotal		0	0
Non-native Cover Subtotal		0	0
Total Cover Subtotal		0	0
Invasive Cover Subtotal		0	0
Herb			
Native Cover Subtotal		6	18
Non-native Cover Subtotal		28	82
Total Cover Subtotal		34	100
Invasive Cover Subtotal		26	76
Grand Total			
Native Cover Grand Total		7	19
Non-native Cover Grand Total		30	81
Total Cover Grand Total		37	100
Invasive Cover Grand Total		28	76

UMU-1 (Hardwood Swamp -Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		5				5
<i>Acer saccharinum</i>	Native		3				3
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Agrimonia gryposepala</i>	Native					3	3
<i>Alliaria petiolata</i>	Introduced	Restricted				1	1
<i>Calamagrostis canadensis</i>	Native					1	1
<i>Carex pensylvanica</i>	Native					<1	<1
<i>Carex stricta</i>	Native					1	1
<i>Carya ovata</i>	Native		10	2			12
<i>Cornus foemina</i>	Native			5			5
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Equisetum arvense</i>	Native					<1	<1
<i>Erigeron annuus</i>	Native					1	1
<i>Fragaria virginiana</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			3			3
<i>Galium aparine</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Glyceria striata</i>	Native					1	1
<i>Impatiens capensis</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		2			2
<i>Parthenocissus quinquefolia</i>	Native				5		5
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				20	20
<i>Populus deltoides</i>	Native		5				5
<i>Quercus macrocarpa</i>	Native		20				20
<i>Rhamnus cathartica</i>	Introduced	Restricted				1	1
<i>Rosa multiflora</i>	Introduced	Restricted		10			10
<i>Rubus allegheniensis</i>	Native			3			3
<i>Salix bebbiana</i>	Native			15			15
<i>Salix interior</i>	Native			5			5
<i>Salix nigra</i>	Native		10				10
<i>Scirpus atrovirens</i>	Native					1	1
<i>Scirpus cyperinus</i>	Native					2	2
<i>Symphotrichum lanceolatum</i>	Native					1	1
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				2	2
<i>Toxicodendron radicans</i>	Native					1	1
<i>Urtica dioica</i>	Native					1	1
<i>Vitis riparia</i>	Native				7		7

Summarized	Total % Cover	
	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	53	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	53	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	33	73
Non-native Cover Subtotal	12	27
Total Cover Subtotal	45	100
Invasive Cover Subtotal	12	27
Vine		
Native Cover Subtotal	12	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	12	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	41
Non-native Cover Subtotal	26	59
Total Cover Subtotal	44	100
Invasive Cover Subtotal	24	55
Grand Total		
Native Cover Grand Total	116	75
Non-native Cover Grand Total	38	25
Total Cover Grand Total	154	100
Invasive Cover Grand Total	36	23

UMU-1 (Shrub-carr East - Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Barbarea vulgaris</i>	Introduced					1	1
<i>Carex lacustris</i>	Native					1	1
<i>Cirsium arvense</i>	Introduced	Restricted				1	1
<i>Cirsium vulgare</i>	Introduced					1	1
<i>Cornus amomum</i>	Native			10			10
<i>Cornus foemina</i>	Native			2			2
<i>Cornus sericea</i>	Native			25			25
<i>Elymus virginicus</i>	Native					1	1
<i>Erigeron strigosus</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Geum laciniatum</i>	Native					1	1
<i>Glyceria striata</i>	Native					1	1
<i>Impatiens capensis</i>	Native					1	1
<i>Juglans nigra</i>	Native					2	2
<i>Juncus dudleyi</i>	Native					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		1			1
<i>Malus pumila</i>	Introduced		1				1
<i>Onoclea sensibilis</i>	Native					1	1
<i>Parthenocissus quinquefolia</i>	Native				1		1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				20	20
<i>Quercus ellipsoidalis</i>	Native		1				1
<i>Rosa multiflora</i>	Introduced	Restricted		5			5
<i>Salix amygdaloides</i>	Native			2			2
<i>Salix bebbiana</i>	Native			1			1
<i>Salix discolor</i>	Native			1			1
<i>Salix interior</i>	Native			5			5
<i>Salix nigra</i>	Native		5				5
<i>Scirpus cyperinus</i>	Native					1	1
<i>Symphotrichum lanceolatum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Urtica dioica</i>	Native					1	1
<i>Viola sororia</i>	Native					1	1
<i>Vitis riparia</i>	Native				2		2

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	6	86
Non-native Cover Subtotal	1	14
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	46	88
Non-native Cover Subtotal	6	12
Total Cover Subtotal	52	100
Invasive Cover Subtotal	6	12
Vine		
Native Cover Subtotal	3	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	3	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	43
Non-native Cover Subtotal	24	57
Total Cover Subtotal	42	100
Invasive Cover Subtotal	21	50
Grand Total		
Native Cover Grand Total	73	70
Non-native Cover Grand Total	31	30
Total Cover Grand Total	104	100
Invasive Cover Grand Total	27	26

UMU-1 (Shrub-carr North - Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		5				5
<i>Achillea millefolium</i>	Native					1	1
<i>Agrimonia gryposepala</i>	Native					2	2
<i>Agrostis gigantea</i>	Introduced					3	3
<i>Arctium minus</i>	Introduced					1	1
<i>Carya ovata</i>	Native		3				3
<i>Cornus foemina</i>	Native			10			10
<i>Cornus sericea</i>	Native			5			5
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Erigeron annuus</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			5		2	7
<i>Galium aparine</i>	Native					1	1
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Hesperis matronalis</i>	Introduced	Restricted				2	2
<i>Juglans nigra</i>	Native		5				5
<i>Juniperus virginiana</i>	Native		1				1
<i>Lonicera tatarica</i>	Introduced	Restricted		8			8
<i>Monarda fistulosa</i>	Native					1	1
<i>Morus alba</i>	Introduced	Restricted	1				1
<i>Parthenocissus quinquefolia</i>	Native				7	4	11
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				15	15
<i>Poa pratensis</i>	Introduced					3	3
<i>Populus deltoides</i>	Native		10				10
<i>Quercus macrocarpa</i>	Native		5				5
<i>Quercus rubra</i>	Native		2				2
<i>Rhamnus cathartica</i>	Introduced	Restricted				2	2
<i>Rosa multiflora</i>	Introduced	Restricted		7			7
<i>Rubus occidentalis</i>	Native			3			3
<i>Salix interior</i>	Native			10			10
<i>Salix nigra</i>	Native		8				8
<i>Symphyotrichum lanceolatum</i>	Native					3	3
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Vitis riparia</i>	Native				7		7

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	39	98
Non-native Cover Subtotal	1	3
Total Cover Subtotal	40	100
Invasive Cover Subtotal	1	3
Sapling/Shrub		
Native Cover Subtotal	33	69
Non-native Cover Subtotal	15	31
Total Cover Subtotal	48	100
Invasive Cover Subtotal	15	31
Vine		
Native Cover Subtotal	14	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	14	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	15	34
Non-native Cover Subtotal	29	66
Total Cover Subtotal	44	100
Invasive Cover Subtotal	19	43
Grand Total		
Native Cover Grand Total	101	69
Non-native Cover Grand Total	45	31
Total Cover Grand Total	146	100
Invasive Cover Grand Total	35	24

UMU-1 (Wet Meadow North - Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Calamagrostis canadensis</i>	Native					1	1
<i>Cirsium arvense</i>	Introduced	Restricted				1	1
<i>Cornus foemina</i>	Native			2			2
<i>Elaeagnus umbellata</i>	Introduced	Restricted		1			1
<i>Eriogon strigosus</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native		1				1
<i>Glechoma hederacea</i>	Introduced	Caution				1	1
<i>Juglans nigra</i>	Native					2	2
<i>Lonicera tatarica</i>	Introduced	Restricted		4			4
<i>Pastinaca sativa</i>	Introduced	Restricted				1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				35	35
<i>Rosa multiflora</i>	Introduced	Restricted		2			2
<i>Sambucus canadensis</i>	Native			1			1
<i>Scirpus cyperinus</i>	Native					1	1
<i>Solidago canadensis</i>	Native					1	1
<i>Typha latifolia</i>	Native					1	1
<i>Urtica dioica</i>	Native					1	1
<i>Viburnum lentago</i>	Native			5			5
<i>Vitis riparia</i>	Native				2		2

Total % Cover	
Summarized	Absolute Cover Relative Cover
Tree	
Native Cover Subtotal	1 100
Non-native Cover Subtotal	0 0
Total Cover Subtotal	1 100
Invasive Cover Subtotal	0 0
Sapling/Shrub	
Native Cover Subtotal	8 53
Non-native Cover Subtotal	7 47
Total Cover Subtotal	15 100
Invasive Cover Subtotal	7 47
Vine	
Native Cover Subtotal	2 100
Non-native Cover Subtotal	0 0
Total Cover Subtotal	2 100
Invasive Cover Subtotal	0 0
Herb	
Native Cover Subtotal	8 17
Non-native Cover Subtotal	38 83
Total Cover Subtotal	46 100
Invasive Cover Subtotal	37 80
Grand Total	
Native Cover Grand Total	19 30
Non-native Cover Grand Total	45 70
Total Cover Grand Total	64 100
Invasive Cover Grand Total	44 69

UMU-1 (Wet Meadow South - Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Cirsium arvense</i>	Introduced	Restricted				1	1
<i>Glyceria striata</i>	Native					1	1
<i>Impatiens capensis</i>	Native					1	1
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				50	50
<i>Quercus macrocarpa</i>	Native		2				2
<i>Salix bebbiana</i>	Native			5			5
<i>Scirpus cyperinus</i>	Native					1	1
<i>Urtica dioica</i>	Native					1	1
<i>Vitis riparia</i>	Native				5		5

Total % Cover	
Summarized	Absolute Cover Relative Cover
Tree	
Native Cover Subtotal	2 100
Non-native Cover Subtotal	0 0
Total Cover Subtotal	2 100
Invasive Cover Subtotal	0 0
Sapling/Shrub	
Native Cover Subtotal	5 100
Non-native Cover Subtotal	0 0
Total Cover Subtotal	5 100
Invasive Cover Subtotal	0 0
Vine	
Native Cover Subtotal	5 100
Non-native Cover Subtotal	0 0
Total Cover Subtotal	5 100
Invasive Cover Subtotal	0 0
Herb	
Native Cover Subtotal	4 7
Non-native Cover Subtotal	51 93
Total Cover Subtotal	55 100
Invasive Cover Subtotal	51 93
Grand Total	
Native Cover Grand Total	16 24
Non-native Cover Grand Total	51 76
Total Cover Grand Total	67 100
Invasive Cover Grand Total	51 76

UMU-2 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		1				1
<i>Acer saccharinum</i>	Native					1	1
<i>Agrimonia gryposepala</i>	Native					2	2
<i>Agrostis gigantea</i>	Introduced					1	1
<i>Alliaria petiolata</i>	Introduced	Restricted				1	1
<i>Anemone quinquefolia</i>	Native					2	2
<i>Carex pensylvanica</i>	Native					4	4
<i>Carya ovata</i>	Native		25				25
<i>Cornus foemina</i>	Native			5			5
<i>Cornus sericea</i>	Native			5			5
<i>Crataegus mollis</i>	Native			1			1
<i>Fraxinus pennsylvanica</i>	Native			1			1
<i>Fragaria virginiana</i>	Native					1	1
<i>Geum canadense</i>	Native					2	2
<i>Hackelia virginiana</i>	Native					<1	<1
<i>Lonicera tatarica</i>	Introduced	Restricted		2			2
<i>Parthenocissus quinquefolia</i>	Native				2		2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				2	2
<i>Populus alba</i>	Introduced	Restricted	1				1
<i>Prunus serotina</i>	Native			2			2
<i>Quercus alba</i>	Native		5				5
<i>Quercus macrocarpa</i>	Native		15				15
<i>Quercus rubra</i>	Native		10				10
<i>Rhamnus cathartica</i>	Introduced	Restricted		2		2	4
<i>Ribes missouriense</i>	Native			1			1
<i>Rosa multiflora</i>	Introduced	Restricted		10			10
<i>Rubus allegheniensis</i>	Native			2			2
<i>Rubus occidentalis</i>	Native			1			1
<i>Symphyotrichum lateriflorum</i>	Native					2	2
<i>Taraxacum officinale</i>	Introduced					<1	<1
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				2	2
<i>Toxicodendron radicans</i>	Native					2	2
<i>Ulmus americana</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		3			3
<i>Viola sororia</i>	Native					1	1
<i>Vitis riparia</i>	Native				5		5

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	56	98
Non-native Cover Subtotal	1	2
Total Cover Subtotal	57	100
Invasive Cover Subtotal	1	2
Sapling/Shrub		
Native Cover Subtotal	18	51
Non-native Cover Subtotal	17	49
Total Cover Subtotal	35	100
Invasive Cover Subtotal	14	40
Vine		
Native Cover Subtotal	7	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	7	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	18	69
Non-native Cover Subtotal	8	31
Total Cover Subtotal	26	100
Invasive Cover Subtotal	7	27
Grand Total		
Native Cover Grand Total	99	79
Non-native Cover Grand Total	26	21
Total Cover Grand Total	125	100
Invasive Cover Grand Total	22	18

UMU-3 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		10	5			15
<i>Agrostis gigantea</i>	Introduced					2	2
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Arctium minus</i>	Introduced					<1	<1
<i>Barbarea vulgaris</i>	Introduced					<1	<1
<i>Bromus inermis</i>	Introduced	Non-Restricted				2	2
<i>Dactylis glomerata</i>	Introduced					2	2
<i>Daucus carota</i>	Introduced	Non-Restricted				1	1
<i>Erigeron annuus</i>	Native					1	1
<i>Fraxinus pennsylvanica</i>	Native			5			5
<i>Geum canadense</i>	Native					2	2
<i>Glechoma hederacea</i>	Introduced	Caution				<1	<1
<i>Juglans nigra</i>	Native		5	5			10
<i>Lolium arundinaceum</i>	Introduced					1	1
<i>Lonicera tatarica</i>	Introduced	Restricted		5			5
<i>Malus pumila</i>	Introduced		20				20
<i>Pastinaca sativa</i>	Introduced	Restricted				2	2
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				30	30
<i>Picea abies</i>	Introduced		15				15
<i>Pinus resinosa</i>	Native		20				20
<i>Plantago rugelii</i>	Native					<1	<1
<i>Poa pratensis</i>	Introduced					2	2
<i>Rosa multiflora</i>	Introduced	Restricted		3			3
<i>Rubus occidentalis</i>	Native			15			15
<i>Symphotrichum lanceolatum</i>	Native					2	2
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Torilis japonica</i>	Introduced	Prohibited/Restricted				1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		2			2
<i>Viola sororia</i>	Native					1	1

Total % Cover	
Summarized	Relative Cover
Absolute Cover	
Tree	
Native Cover Subtotal	35
Non-native Cover Subtotal	35
Total Cover Subtotal	70
Invasive Cover Subtotal	0
Sapling/Shrub	
Native Cover Subtotal	30
Non-native Cover Subtotal	10
Total Cover Subtotal	40
Invasive Cover Subtotal	8
Vine	
Native Cover Subtotal	0
Non-native Cover Subtotal	0
Total Cover Subtotal	0
Invasive Cover Subtotal	0
Herb	
Native Cover Subtotal	7
Non-native Cover Subtotal	44
Total Cover Subtotal	51
Invasive Cover Subtotal	33
Grand Total	
Native Cover Grand Total	72
Non-native Cover Grand Total	89
Total Cover Grand Total	161
Invasive Cover Grand Total	41

WMU-1 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Acer negundo</i>	Native		1	2			3
<i>Agrimonia gryposepala</i>	Native					1	1
<i>Alliaria petiolata</i>	Introduced	Restricted				<1	<1
<i>Allium tricoccum</i>	Native					1	1
<i>Anemone quinquefolia</i>	Native					1	1
<i>Arctium minus</i>	Introduced					<1	<1
<i>Carex blanda</i>	Native					1	1
<i>Carex pensylvanica</i>	Native					2	2
<i>Carya ovata</i>	Native		1				1
<i>Celtis occidentalis</i>	Native		3				3
<i>Centaurea stoebe</i>	Introduced	Restricted				<1	<1
<i>Cirsium vulgare</i>	Introduced					<1	<1
<i>Convallaria majalis</i>	Introduced	Non-Restricted				<1	<1
<i>Cornus amomum</i>	Native			<1			<1
<i>Fraxinus americana</i>	Native		3				3
<i>Fraxinus pennsylvanica</i>	Native			5		5	10
<i>Galium aparine</i>	Native					1	1
<i>Geranium maculatum</i>	Native					<1	<1
<i>Geum canadense</i>	Native					1	1
<i>Glechoma hederacea</i>	Introduced	Caution				<1	<1
<i>Hackelia virginiana</i>	Native					<1	<1
<i>Hesperis matronalis</i>	Introduced	Restricted				1	1
<i>Juglans nigra</i>	Native		10				10
<i>Juniperus virginiana</i>	Native		1				1
<i>Lonicera reticulata</i>	Native				1		1
<i>Lonicera tatarica</i>	Introduced	Restricted		7			7
<i>Maianthemum racemosum</i>	Native					1	1
<i>Melilotus officinalis</i>	Introduced	Non-Restricted				1	1
<i>Monarda fistulosa</i>	Native					<1	<1
<i>Morus alba</i>	Introduced	Restricted	2			<1	2
<i>Parthenocissus quinquefolia</i>	Native					5	5
<i>Poa pratensis</i>	Introduced					1	1
<i>Podophyllum peltatum</i>	Native					3	3
<i>Populus deltoides</i>	Native		5				5
<i>Populus grandidentata</i>	Native			<1			<1
<i>Prunus serotina</i>	Native		40			2	42
<i>Quercus alba</i>	Native		30				30
<i>Quercus macrocarpa</i>	Native		5				5
<i>Quercus velutina</i>	Native		8	1			9
<i>Ranunculus abortivus</i>	Native					<1	<1
<i>Rhamnus cathartica</i>	Introduced	Restricted	3	20		8	31
<i>Rhus glabra</i>	Native			10			10
<i>Ribes americanum</i>	Native			1			1
<i>Rubus occidentalis</i>	Native			1			1
<i>Sambucus canadensis</i>	Native			1			1
<i>Symphotrichum lateriflorum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					1	1
<i>Tilia americana</i>	Native		1				1
<i>Toxicodendron radicans</i>	Native					1	1
<i>Viburnum opulus</i>	Introduced	Non-Restricted		3		2	5
<i>Viola sororia</i>	Native					1	1
<i>Vitis aestivalis</i>	Native				5		5
<i>Vitis riparia</i>	Native				2		2
<i>Zanthoxylum americanum</i>	Native			5			5

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	108	96
Non-native Cover Subtotal	5	4
Total Cover Subtotal	113	100
Invasive Cover Subtotal	5	4
Sapling/Shrub		
Native Cover Subtotal	26	46
Non-native Cover Subtotal	30	54
Total Cover Subtotal	56	100
Invasive Cover Subtotal	27	48
Vine		
Native Cover Subtotal	8	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	8	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	27	66
Non-native Cover Subtotal	14	34
Total Cover Subtotal	41	100
Invasive Cover Subtotal	9	22
Grand Total		
Native Cover Grand Total	169	78
Non-native Cover Grand Total	49	22
Total Cover Grand Total	218	100
Invasive Cover Grand Total	41	19

YMU-1 (Spring 2023)			Absolute % Cover				
Species	Native/Introduced	Invasive Status	Tree	Sapling/Shrub	Vine	Herb	Total
<i>Arctium minus</i>	Introduced					1	1
<i>Carex lacustris</i>	Native					<1	<1
<i>Cirsium vulgare</i>	Introduced					<1	<1
<i>Cornus amomum</i>	Native			5			5
<i>Cornus sericea</i>	Native			7			7
<i>Fraxinus pennsylvanica</i>	Native			6			6
<i>Geum canadense</i>	Native					2	2
<i>Impatiens capensis</i>	Native					<1	<1
<i>Juglans nigra</i>	Native		1				1
<i>Juniperus virginiana</i>	Native			<1			<1
<i>Leonurus cardiaca</i>	Introduced					<1	<1
<i>Lonicera tatarica</i>	Introduced	Restricted		8			8
<i>Phalaris arundinacea</i>	Introduced	Non-restricted				35	35
<i>Populus deltoides</i>	Native		60				60
<i>Rhamnus cathartica</i>	Introduced	Restricted		7		3	10
<i>Ribes americanum</i>	Native			2			2
<i>Rubus occidentalis</i>	Native			1			1
<i>Salix discolor</i>	Native			10			10
<i>Salix nigra</i>	Native		2	5			7
<i>Sambucus canadensis</i>	Native			3			3
<i>Symphyotrichum lanceolatum</i>	Native					1	1
<i>Taraxacum officinale</i>	Introduced					2	2
<i>Vitis riparia</i>	Native				4		4
<i>Zizia aurea</i>	Native					1	1

Total % Cover		
Summarized	Absolute Cover	Relative Cover
Tree		
Native Cover Subtotal	63	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	63	100
Invasive Cover Subtotal	0	0
Sapling/Shrub		
Native Cover Subtotal	39	72
Non-native Cover Subtotal	15	28
Total Cover Subtotal	54	100
Invasive Cover Subtotal	15	28
Vine		
Native Cover Subtotal	4	100
Non-native Cover Subtotal	0	0
Total Cover Subtotal	4	100
Invasive Cover Subtotal	0	0
Herb		
Native Cover Subtotal	4	9
Non-native Cover Subtotal	41	91
Total Cover Subtotal	45	100
Invasive Cover Subtotal	38	84
Grand Total		
Native Cover Grand Total	110	66
Non-native Cover Grand Total	56	34
Total Cover Grand Total	166	100
Invasive Cover Grand Total	53	32



SITE NAME:	Babcock Conservancy Summer 2022		PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	BMU-1 Southern Mesic Forest		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/19/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
11	9	2	4%	3%	14.3	14.1	4.8	4.7	13.0	15.4	3.9	4.6	4.7	8.0	3.7	0.0
													130%	1%	18%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCH ARU	75	<i>Acer saccharum</i>	hard maple, sugar maple	5	FACU	Native	tree	perennial	0	0	<i>Acer saccharum</i>
ARITRI	4	<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
CELOCC	27	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CIRCAN	2	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CONMAJ	3	<i>Convallaria majalis</i>	European lily-of-the-valley, lily-of-the-v	0	0	Introduced	herb	0	0	Non-Restricted	<i>Convallaria majalis</i>
FRAPEN	2	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
MAIRAC	7	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
PODPEL	2	<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
PRUSER	1	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
TILAME	25	<i>Tilia americana</i>	American linden, basswood	5	FACU	Native	tree	perennial	0	0	<i>Tilia americana</i>
VIBOPU	1	<i>Viburnum opulus</i>	cranberry viburnum, European cranberr	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	<i>Viburnum opulus</i>



SITE NAME:	Babcock Conservancy Summer 2022		PLANT COMMUNITY:	Southern Hardwood Swamp & Emergent Marsh
ASSESSMENT AREA NAME:	BMU-2 Southern Hardwood Swamp & Emergent Marsh		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/19/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

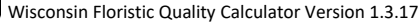
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
78	59	19	101%	51%	28.9	25.1	3.8	3.3	25.1	15.0	2.8	1.7	2.6	2.3	1.4	3.0
													33%	16%	150%	1%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	9	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACOAME	1	<i>Acorus americanus</i>	sweet-flag	7	OBL	Native	herb	perennial	0	0	<i>Acorus americanus</i>
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
AMBTRI	1	<i>Ambrosia trifida</i>	giant ragweed, great ragweed, horse-cc	0	FAC	Native	herb	annual	0	0	<i>Ambrosia trifida</i>
APOCAN	1	<i>Apocynum cannabinum</i>	hemp-dogbane, Indian hemp	3	FAC	Native	herb	perennial	0	0	<i>Apocynum cannabinum</i>
ARCLAP	1	<i>Arctium lappa</i>	great burdock	0	0	Introduced	herb	biennial	0	0	<i>Arctium lappa</i>
ASCINC	1	<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
BIDFRO	1	<i>Bidens frondosa</i>	common beggar-ticks, devil's beggar-tic	1	FACW	Native	herb	annual	0	0	<i>Bidens frondosa</i>
CARBEB	1	<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CARDEB	1	<i>Carex debilis</i>	weak sedge, white-edge sedge	5	FACW	Native	herb	perennial	0	0	<i>Carex debilis</i>
CARLAC	1	<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>
CATSPE	1	<i>Catalpa speciosa</i>	northern catalpa	0	FACU	Introduced	tree	perennial	0	0	<i>Catalpa speciosa</i>
CELOCC	3	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CICBUL	1	<i>Cicuta bulbifera</i>	bulblet water-hemlock	7	OBL	Native	herb	perennial	0	0	<i>Cicuta bulbifera</i>
CICMAC	1	<i>Cicuta maculata</i>	common water-hemlock, spotted water	6	OBL	Native	herb	perennial	0	0	<i>Cicuta maculata</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CIRCAN	1	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRDIS	1	<i>Cirsium discolor</i>	field thistle, pasture thistle, prairie thist	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	<i>Cirsium discolor</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
COMCOM	1	<i>Commelina communis</i>	Asiatic dayflower, common dayflower	0	FACU/FAC	Introduced	herb	annual	0	0	<i>Commelina communis</i>
CONMAJ	1	<i>Convallaria majalis</i>	European lily-of-the-valley, lily-of-the-vc	0	0	Introduced	herb	0	0	Non-Restricted	<i>Convallaria majalis</i>
CORAMO	1	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ELEPAL	1	<i>Eleocharis palustris</i>	common spike-rush	6	OBL	Native	herb	perennial	0	0	<i>Eleocharis palustris</i>
EREHIE	1	<i>Erechtites hieraciifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieraciifolius</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
EUPPER	2	<i>Eupatorium perfoliatum</i>	boneset, common boneset, thoroughwo	6	OBL/FACW	Native	herb	perennial	0	0	<i>Eupatorium perfoliatum</i>
FRAAME	1	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN	3	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALTRIFI	1	<i>Galium trifidum</i>	northern three-lobed bedstraw, small b	6	FACW	Native	herb	perennial	0	0	<i>Galium trifidum</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLYSTR	1	<i>Glyceria striata</i>	fowl manna grass, fowl meadow grass	4	OBL	Native	herb	perennial	0	0	<i>Glyceria striata</i>
HEMFUL	2	<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
IMPCAP	5	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	1	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LEEORY	2	<i>Leersia oryzoides</i>	rice cut grass	3	OBL	Native	herb	perennial	0	0	<i>Leersia oryzoides</i>
LONTAT	5	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYCAME	1	<i>Lycopus americanus</i>	American water-horehound, common w	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
LYSCIL	1	<i>Lysimachia ciliata</i>	fringed loosestrife	5	FACW	Native	herb	perennial	0	0	<i>Lysimachia ciliata</i>
LYTSAL	1	<i>Lythrum salicaria</i>	purple loosestrife, spiked loosestrife	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Lythrum salicaria</i>
MAIRAC	1	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MENARVCCA NI	1	<i>Mentha canadensis</i>	field mint, wild mint	3	FACW	Native	herb	perennial	0	0	<i>Mentha arvensis</i>
MIMRIN	2	<i>Mimulus ringens</i>	Allegheny monkey-flower, monkey-flow	6	OBL	Native	herb	perennial	0	0	<i>Mimulus ringens</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
PARQUI	2	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT	1	<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PERAMP	5	<i>Persicaria amphibia</i>	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	<i>Persicaria amphibia</i>
PERHYD	5	<i>Persicaria hydropiper</i>	marsh-pepper smartweed, water-peppe	0	OBL	Introduced	herb	annual	0	0	<i>Persicaria hydropiper</i>
PERLAP	1	<i>Persicaria lapathifolia</i>	curly-top knotweed, dock-leaved smart	2	FACW	Native	herb	annual	0	0	<i>Persicaria lapathifolia</i>
PERMAC	5	<i>Persicaria maculosa</i>	heart's-ease, spotted lady's-thumb	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Persicaria maculosa</i>
PHAARU	5	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PILPUM	5	<i>Pilea pumila</i>	Canadian clearweed	3	FACW	Native	herb	annual	0	0	<i>Pilea pumila</i>

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SITE NAME:	Babcock Conservancy Summer 2022		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	7/19/2022
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

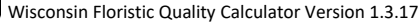
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
82	63	19			30.4		3.8		26.6		2.9					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCH ARU		<i>Acer saccharum</i>	hard maple, sugar maple	5	FACU	Native	tree	perennial	0	0	<i>Acer saccharum</i>
ACOAME		<i>Acorus americanus</i>	sweet-flag	7	OBL	Native	herb	perennial	0	0	<i>Acorus americanus</i>
AGEALT		<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRPAR		<i>Agrimonia parviflora</i>	harvest-lice, southern agrimony, swamp	4	FACW/FAC	Native	herb	perennial	Special concern	0	<i>Agrimonia parviflora</i>
AMBTRI		<i>Ambrosia trifida</i>	giant ragweed, great ragweed, horse-c	0	FAC	Native	herb	annual	0	0	<i>Ambrosia trifida</i>
APOCAN		<i>Apocynum cannabinum</i>	hemp-dogbane, Indian hemp	3	FAC	Native	herb	perennial	0	0	<i>Apocynum cannabinum</i>
ARCLAP		<i>Arctium lappa</i>	great burdock	0	0	Introduced	herb	biennial	0	0	<i>Arctium lappa</i>
ARITRI		<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
ASCINC		<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
BIDFRO		<i>Bidens frondosa</i>	common beggar-ticks, devil's beggar-tic	1	FACW	Native	herb	annual	0	0	<i>Bidens frondosa</i>
CARBEB		<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CARDEB		<i>Carex debilis</i>	weak sedge, white-edge sedge	5	FACW	Native	herb	perennial	0	0	<i>Carex debilis</i>
CARLAC		<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>
CATSPE		<i>Catalpa speciosa</i>	northern catalpa	0	FACU	Introduced	tree	perennial	0	0	<i>Catalpa speciosa</i>
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CICBUL		<i>Cicuta bulbifera</i>	bulblet water-hemlock	7	OBL	Native	herb	perennial	0	0	<i>Cicuta bulbifera</i>
CICMAC		<i>Cicuta maculata</i>	common water-hemlock, spotted water	6	OBL	Native	herb	perennial	0	0	<i>Cicuta maculata</i>
CIRARV		<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRCAN		<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRDIS		<i>Cirsium discolor</i>	field thistle, pasture thistle, prairie thist	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	<i>Cirsium discolor</i>
CIRVUL		<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
COMCOM		<i>Commelina communis</i>	Asiatic dayflower, common dayflower	0	FACU/FAC	Introduced	herb	annual	0	0	<i>Commelina communis</i>
CONMAJ		<i>Convallaria majalis</i>	European lily-of-the-valley, lily-of-the-vc	0	0	Introduced	herb	0	0	Non-Restricted	<i>Convallaria majalis</i>
CORAMO		<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ELEPAL		<i>Eleocharis palustris</i>	common spike-rush	6	OBL	Native	herb	perennial	0	0	<i>Eleocharis palustris</i>
EREHIE		<i>Erechtites hieraciifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieraciifolius</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
EUPPER		<i>Eupatorium perfoliatum</i>	boneset, common boneset, thoroughwo	6	OBL/FACW	Native	herb	perennial	0	0	<i>Eupatorium perfoliatum</i>
FRAAME		<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALTRIFI		<i>Galium trifidum</i>	northern three-lobed bedstraw, small b	6	FACW	Native	herb	perennial	0	0	<i>Galium trifidum</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLYSTR		<i>Glyceria striata</i>	fowl manna grass, fowl meadow grass	4	OBL	Native	herb	perennial	0	0	<i>Glyceria striata</i>
HEMFUL		<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
IMPCAP		<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LEEORY		<i>Leersia oryzoides</i>	rice cut grass	3	OBL	Native	herb	perennial	0	0	<i>Leersia oryzoides</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYCAME		<i>Lycopus americanus</i>	American water-horehound, common w	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
LYSCIL		<i>Lysimachia ciliata</i>	fringed loosestrife	5	FACW	Native	herb	perennial	0	0	<i>Lysimachia ciliata</i>
LYTSAL		<i>Lythrum salicaria</i>	purple loosestrife, spiked loosestrife	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Lythrum salicaria</i>
MAIRAC		<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MENARVCCA N		<i>Mentha canadensis</i>	field mint, wild mint	3	FACW	Native	herb	perennial	0	0	<i>Mentha arvensis</i>
MIMRIN		<i>Mimulus ringens</i>	Allegheny monkey-flower, monkey-flow	6	OBL	Native	herb	perennial	0	0	<i>Mimulus ringens</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT		<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PERAMP		<i>Persicaria amphibia</i>	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	<i>Persicaria amphibia</i>
PERHYD		<i>Persicaria hydropiper</i>	marsh-pepper smartweed, water-peppe	0	OBL	Introduced	herb	annual	0	0	<i>Persicaria hydropiper</i>
PERLAP		<i>Persicaria lapathifolia</i>	curly-top knotweed, dock-leaved smart	2	FACW	Native	herb	annual	0	0	<i>Persicaria lapathifolia</i>
PERMAC		<i>Persicaria maculosa</i>	heart's-ease, spotted lady's-thumb	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Persicaria maculosa</i>

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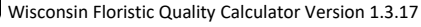


SITE NAME:	Grandview Conservancy Summer 2022		PLANT COMMUNITY:	Emergent Marsh
ASSESSMENT AREA NAME:	GMU-1A Emergent Marsh (South)		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
22	16	6	80%	66%	17.0	11.6	4.3	2.9	14.5	4.7	3.1	1.0	0.0	0.0	1.0	0.0
													0%	2%	120%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CARSTR	1	Carex stricta	tussock sedge	7	OBL	Native	herb	perennial	0	0	Carex stricta
EUPPER	1	Eupatorium perfoliatum	boneset, common boneset, thoroughwo	6	OBL/FACW	Native	herb	perennial	0	0	Eupatorium perfoliatum
EUTMAC	3	Eutrochium maculatum	spotted Joe-Pye-weed	4	OBL	Native	herb	perennial	0	0	Eutrochium maculatum
FILRUB	1	Filipendula rubra	queen-of-the-prairie	0	OBL/FACW	Introduced	herb	perennial	0	0	Filipendula rubra
HEMFUL	1	Hemerocallis fulva	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	Hemerocallis fulva
IMPCAP	1	Impatiens capensis	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	Impatiens capensis
IRIVIR	1	Iris virginica	southern blue flag, Virginia iris	5	OBL	Native	herb	perennial	0	0	Iris virginica
LEEORY	2	Leersia oryzoides	rice cut grass	3	OBL	Native	herb	perennial	0	0	Leersia oryzoides
LONTAT	2	Lonicera tatarica	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	Lonicera tatarica
ONOLEN	1	Onoclea sensibilis	sensitive fern	5	FACW	Native	herb	perennial	0	0	Onoclea sensibilis
PERAMP	1	Persicaria amphibia	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	Persicaria amphibia
PERSAG	1	Persicaria sagittata	arrow-leaved tearthumb, arrow vine	6	OBL	Native	herb	annual	0	0	Persicaria sagittata
PHAARU	35	Phalaris arundinacea	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	Phalaris arundinacea
PILPUM	1	Pilea pumila	Canadian clearweed	3	FACW	Native	herb	annual	0	0	Pilea pumila
POAPAL	1	Poa palustris	fowl meadow grass, marsh bluegrass	5	FACW	Native	herb	perennial	0	0	Poa palustris
RUMVER	1	Rumex verticillatus	swamp dock, water dock	6	OBL	Native	herb	perennial	0	0	Rumex verticillatus
SCIATR	1	Scirpus atrovirens	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	Scirpus atrovirens

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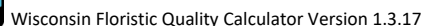


SITE NAME:	Grandview Conservancy Summer 2022		PLANT COMMUNITY:	Southern Hardwood Swamp
ASSESSMENT AREA NAME:	GMU-1A Southern Hardwood Swamp		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
39	32	7	69%	37%	16.8	14.9	3.0	2.6	15.2	10.4	2.4	1.7	2.3	0.7	1.5	0.0
													63%	22%	101%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARI	30	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
ACHMIL	2	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG	5	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
ANDGER	1	<i>Andropogon gerardii</i>	big blue-stem, turkey-foot	4	FAC/FACU	Native	herb	perennial	0	0	<i>Andropogon gerardii</i>
APOCAN	1	<i>Apocynum cannabinum</i>	hemp-dogbane, Indian hemp	3	FAC	Native	herb	perennial	0	0	<i>Apocynum cannabinum</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
CARBEB	1	<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CARPEL	2	<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARVUL	3	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CIRARV	2	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CORRAC	2	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	1	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
EQUARV	2	<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
EUTMAC	1	<i>Eutrochium maculatum</i>	spotted Joe-Pye-weed	4	OBL	Native	herb	perennial	0	0	<i>Eutrochium maculatum</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>

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SITE NAME:	Grandview Conservancy Summer 2022		PLANT COMMUNITY:	Wet Meadow & Wet-mesic Prairie
ASSESSMENT AREA NAME:	GMU-1A Wet Meadow		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

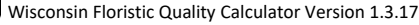
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
63	50	13	65%	41%	22.5	27.4	3.2	3.9	20.0	18.2	2.5	2.3	3.0	0.6	2.8	0.0
													3%	36%	120%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
AMBART	1	<i>Ambrosia artemisiifolia</i>	annual bur-sage, common ragweed, shc	0	FACU	Native	herb	annual	0	0	<i>Ambrosia artemisiifolia</i>
ANDGER	1	<i>Andropogon gerardii</i>	big blue-stem, turkey-foot	4	FAC/FACU	Native	herb	perennial	0	0	<i>Andropogon gerardii</i>
ASCINC	1	<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
BROINE	1	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CALCAN	1	<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARCRI1	1	<i>Carex cristatella</i>	crested oval sedge, crested sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex cristatella</i>
CARMOL	1	<i>Carex molesta</i>	field oval sedge, troublesome sedge	2	FAC	Native	herb	perennial	0	0	<i>Carex molesta</i>
CARPEL	5	<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARROSE	1	<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CARSTR	20	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CARVUL	1	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CIRCAN	1	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CONCAN	1	<i>Conyza canadensis</i>	Canadian horseweed, fleabane, hogweed	0	FACU	Native	herb	0	0	0	<i>Conyza canadensis</i>
CORRAC	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwood	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	2	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
EQUARV	1	<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
EREHIE	1	<i>Erechtites hieracifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieracifolius</i>
EUPPER	1	<i>Eupatorium perfoliatum</i>	boneset, common boneset, thoroughwort	6	OBL/FACW	Native	herb	perennial	0	0	<i>Eupatorium perfoliatum</i>
EUTMAC	1	<i>Eutrochium maculatum</i>	spotted Joe-Pye-weed	4	OBL	Native	herb	perennial	0	0	<i>Eutrochium maculatum</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR	1	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia strawberry	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GENALB	1	<i>Gentiana alba</i>	cream gentian, pale gentian, yellow gentian	7	FACU	Native	herb	perennial	0	0	<i>Gentiana alba</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HELGRO	6	<i>Helianthus grosseserratus</i>	saw-tooth sunflower	2	FACW	Native	herb	perennial	0	0	<i>Helianthus grosseserratus</i>
JUNDUD	1	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LILMIC	1	<i>Lilium michiganense</i>	Michigan lily, Turk's-cap lily	6	FACW	Native	herb	perennial	0	0	<i>Lilium michiganense</i>
LONTAT	20	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYCAME	1	<i>Lycopus americanus</i>	American water-horehound, common water horehound	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
LYSNUM	1	<i>Lysimachia nummularia</i>	creeping-Charlie, creeping-Jennie, moneywort	0	FACW	Introduced	herb	perennial	0	Restricted	<i>Lysimachia nummularia</i>
MEDLUP	1	<i>Medicago lupulina</i>	black medick	0	FACU	Introduced	herb	annual/biennial	0	0	<i>Medicago lupulina</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MUHMEX	1	<i>Muhlenbergia mexicana</i>	leafy satin grass, Mexican muhly, wiregrass	4	FACW	Native	herb	perennial	0	0	<i>Muhlenbergia mexicana</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI	1	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT	1	<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PHAARU	30	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
POAPAL	1	<i>Poa palustris</i>	fowl meadow grass, marsh bluegrass	5	FACW	Native	herb	perennial	0	0	<i>Poa palustris</i>
POAPRA	1	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PODPEL	1	<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POPDEL	1	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
PRUVUL	1	<i>Prunella vulgaris</i>	heal-all, lawn prunella, self-heal	1	FAC	Native	herb	perennial	0	0	<i>Prunella vulgaris</i>
PYCVIR	2	<i>Pycnanthemum virginianum</i>	common mountain mint, Virginia mountain mint	6	FACW	Native	herb	perennial	0	0	<i>Pycnanthemum virginianum</i>
RHACAT	5	<i>Rhamnus cathartica</i>	common buckthorn, European buckthorn	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBAME	1	<i>Ribes americanum</i>	American black currant, eastern black currant	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
ROSMUL	1	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL	1	<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
SCIATR	1	<i>Scirpus atrovirens</i>	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	<i>Scirpus atrovirens</i>

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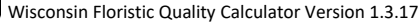


SITE NAME:	Grandview Conservancy Summer 2022		PLANT COMMUNITY:	Emergent Marsh & Southern Hardwood Swamp
ASSESSMENT AREA NAME:	GMU-1B Emergent Marsh & Southern Hardwood Swamp (North)		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
37	31	6	57%	50%	16.2	16.4	2.9	2.9	14.8	9.0	2.4	1.5	2.3	2.8	1.4	0.0
													9%	4%	102%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCH ARI	1	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
ALISUB	3	<i>Alisma subcordatum</i>	American water-plantain, common wat	3	OBL	Native	herb	perennial	0	0	<i>Alisma subcordatum</i>
ASCINC	1	<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
BIDCER	1	<i>Bidens cernua</i>	nodding beggar-ticks, nodding bur-mari	4	OBL	Native	herb	annual	0	0	<i>Bidens cernua</i>
CALSEP	1	<i>Calystegia sepium</i>	hedge bindweed, hedge false bindweed	2	FAC	Native	herb	perennial	0	0	<i>Calystegia sepium</i>
CARBEB	2	<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CARSTR	4	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CIRARV	3	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
ECHCRU	1	<i>Echinochloa crus-galli</i>	barnyard grass, large barnyard grass	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Echinochloa crus-galli</i>
ECHLOB	1	<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ELEOBT	2	<i>Eleocharis obtusa</i>	blunt spike-rush	3	OBL	Native	herb	annual/peren	0	0	<i>Eleocharis obtusa</i>
EREHIE	1	<i>Erechtites hieraciifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieraciifolius</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
IMPCAP	3	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
IRIVIR	1	<i>Iris virginica</i>	southern blue flag, Virginia iris	5	OBL	Native	herb	perennial	0	0	<i>Iris virginica</i>

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SITE NAME:	Grandview Conservancy Summer 2022			PLANT COMMUNITY:	Mesic Prairie
ASSESSMENT AREA NAME:	GMU-2A Mesic Prairie			SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:				
	Longitude:			SURVEY DATE:	7/12/2022
COUNTY:	Dane			SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains				

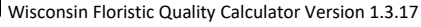
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
60	36	24	51%	43%	16.0	12.2	2.7	2.0	12.4	10.0	1.6	1.3	4.2	1.0	1.3	0.0
													6%	44%	69%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ABUTHE	1	<i>Abutilon theophrasti</i>	piemarker, velvet-leaf	0	FACU	Introduced	herb	annual	0	0	<i>Abutilon theophrasti</i>
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
AMBART	1	<i>Ambrosia artemisiifolia</i>	annual bur-sage, common ragweed, shc	0	FACU	Native	herb	annual	0	0	<i>Ambrosia artemisiifolia</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yellk	0	FAC	Introduced	herb	biennial/perennial	0	0	<i>Barbarea vulgaris</i>
CARBLA	1	<i>Carex blanda</i>	common wood sedge, eastern woodlanc	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARMOL	1	<i>Carex molesta</i>	field oval sedge, troublesome sedge	2	FAC	Native	herb	perennial	0	0	<i>Carex molesta</i>
CARTENE	1	<i>Carex tenera</i>	marsh straw sedge, narrow-leaved oval	4	FACW/FAC	Native	herb	perennial	0	0	<i>Carex tenera</i>
CIRCAN	1	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CORRAC	10	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DACGLO	1	<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
EQUARV	1	<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
ERISTR	1	<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
FESRUB	1	<i>Festuca rubra</i>	red fescue	0	FACU	Introduced	herb	perennial	0	0	<i>Festuca rubra</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR	1	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HYPPER	1	<i>Hypericum perforatum</i>	common St. John's-wort, Klamath-weed	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Hypericum perforatum</i>
JUNDUD	1	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LONTAT	20	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MEDLUP	1	<i>Medicago lupulina</i>	black medick	0	FACU	Introduced	herb	annual/bienr	0	0	<i>Medicago lupulina</i>
MELALB	1	<i>Melilotus albus</i>	white sweet-clover	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	<i>Melilotus albus</i>
MONFIS	2	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
ONOSEN	1	<i>Onoclea sensibilis</i>	sensitive fern	5	FACW	Native	herb	perennial	0	0	<i>Onoclea sensibilis</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI	1	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT	1	<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PERMAC	1	<i>Persicaria maculosa</i>	heart's-ease, spotted lady's-thumb	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Persicaria maculosa</i>
PERVIR	1	<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/peren	0	0	<i>Persicaria virginiana</i>
PHAARU	2	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PLAMAJ	1	<i>Plantago major</i>	broad-leaved plantain, common plantain	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Plantago major</i>
POAPRA	1	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PRUSER	1	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PRUVUL	1	<i>Prunella vulgaris</i>	heal-all, lawn prunella, self-heal	1	FAC	Native	herb	perennial	0	0	<i>Prunella vulgaris</i>
QUEMAC	2	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUEELL	1	<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
RANABO	1	<i>Ranunculus abortivus</i>	little-leaf buttercup, small-flowered but.	1	FACW/FAC	Native	herb	biennial/per	0	0	<i>Ranunculus abortivus</i>
RHACAT	5	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
ROSMUL	3	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL	2	<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC	1	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
RUMCRI	1	<i>Rumex crispus</i>	curly dock, sour dock	0	FAC	Introduced	herb	perennial	0	0	<i>Rumex crispus</i>
SILLAT	1	<i>Silene latifolia</i>	bladder campion, white campion, white	0	0	Introduced	herb	0	0	0	<i>Silene latifolia</i>
SOLDUL	1	<i>Solanum dulcamara</i>	bittersweet nightshade	0	FAC	Introduced	herb	perennial	0	0	<i>Solanum dulcamara</i>
SOLCAN	20	<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SOLGIG	2	<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>
SYMLAT	1	<i>Symphyotrichum lateriflorum</i>	side-flowering aster	3	FACW/FAC	Native	herb	perennial	0	0	<i>Symphyotrichum lateriflorum</i>
SYMNOV	1	<i>Symphyotrichum novae-angliae</i>	New England aster	3	FACW	Native	herb	perennial	0	0	<i>Symphyotrichum novae-angliae</i>

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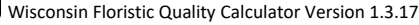


SITE NAME:	Grandview Conservancy Summer 2022		PLANT COMMUNITY:	Shrub-invaded Mesic Prairie
ASSESSMENT AREA NAME:	GMU-2B Invaded Mesic Prairie		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
33	27	6	39%	17%	15.6	13.9	3.0	2.7	14.1	12.8	2.5	2.2	4.5	1.9	2.3	0.0
													6%	75%	146%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	15	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG	5	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
APOCAN	1	<i>Apocynum cannabinum</i>	hemp-dogbane, Indian hemp	3	FAC	Native	herb	perennial	0	0	<i>Apocynum cannabinum</i>
CARMOL	5	<i>Carex molesta</i>	field oval sedge, troublesome sedge	2	FAC	Native	herb	perennial	0	0	<i>Carex molesta</i>
CARVUL	4	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CORRAC	35	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR	2	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GEUALE	3	<i>Geum aleppicum</i>	yellow avens	3	FACW/FAC	Native	herb	perennial	0	0	<i>Geum aleppicum</i>
HELGRO	10	<i>Helianthus grosseserratus</i>	saw-tooth sunflower	2	FACW	Native	herb	perennial	0	0	<i>Helianthus grosseserratus</i>
JUNDUD	5	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LONTAT	20	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYCAME	2	<i>Lycopus americanus</i>	American water-horehound, common w	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
MONFIS	4	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
PARQUI	2	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT	1	<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>

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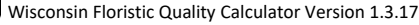


SITE NAME:	Grandview Conservancy Summer 2022			PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	GMU-3A Southern Mesic Forest (South)			SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:			SURVEY DATE:	7/12/2022
	Longitude:			SITE NOTES:	
COUNTY:	Dane				
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains				

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
33	22	11	80%	42%	12.6	5.2	2.7	1.1	10.3	3.7	1.8	0.6	0.7	0.1	0.9	0.0
													92%	47%	53%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	75	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
ALLPET	25	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRCAN	2	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CRYCAN	1	<i>Cryptotaenia canadensis</i>	Canadian honewort, white chervil	4	FAC	Native	herb	perennial	0	0	<i>Cryptotaenia canadensis</i>
ECHLOB	1	<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, g	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HEMFUL	2	<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
JUGNIG	5	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LEOCAR	1	<i>Leonurus cardiaca</i>	lion's-tail, motherwort	0	0	Introduced	herb	perennial	0	0	<i>Leonurus cardiaca</i>
LONTAT	40	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MATSTR	1	<i>Matteuccia struthiopteris</i>	American ostrich fern, ostrich fern	5	FACW/FAC	Native	herb	perennial	0	0	<i>Matteuccia struthiopteris</i>
MORALB	1	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>

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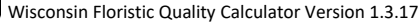


SITE NAME:	Grandview Conservancy Summer 2022		PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	GMU-3B Southern Mesic Forest (North)		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
37	28	9	29%	12%	15.9	14.9	3.0	2.8	13.8	15.1	2.3	2.5	3.1	1.0	1.6	0.0
													149%	19%	74%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	35	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGEALT	25	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET	2	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
CARBLA	2	<i>Carex blanda</i>	common wood sedge, eastern woodland	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CAROVAT	32	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEN	2	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CELOCC	1	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRCAN	5	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
DUCIND	2	<i>Duchesnea indica</i>	false strawberry, Indian strawberry	0	FACU	Introduced	herb	perennial	0	0	<i>Duchesnea indica</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	2	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN	4	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HACVIR	10	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
IMPCAP	2	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>

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SITE NAME:	Grandview Conservancy Summer 2022		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons and John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
152	109	43			34.3		3.3		29.0		2.4					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ABUTHE		<i>Abutilon theophrasti</i>	piemarker, velvet-leaf	0	FACU	Introduced	herb	annual	0	0	<i>Abutilon theophrasti</i>
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCHARI		<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
ACHMIL		<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGEALT		<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRIGIG		<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALISUB		<i>Alisma subcordatum</i>	American water-plantain, common wat.	3	OBL	Native	herb	perennial	0	0	<i>Alisma subcordatum</i>
ALLPET		<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
AMBART		<i>Ambrosia artemisiifolia</i>	annual bur-sage, common ragweed, shc	0	FACU	Native	herb	annual	0	0	<i>Ambrosia artemisiifolia</i>
ANDGER		<i>Andropogon gerardii</i>	big blue-stem, turkey-foot	4	FAC/FACU	Native	herb	perennial	0	0	<i>Andropogon gerardii</i>
APOCAN		<i>Apocynum cannabinum</i>	hemp-dogbane, Indian hemp	3	FAC	Native	herb	perennial	0	0	<i>Apocynum cannabinum</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ASCINC		<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
ASCSYR		<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
BARVUL		<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yell	0	FAC	Introduced	herb	biennial/per	0	0	<i>Barbarea vulgaris</i>



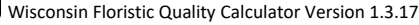
ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
BIDCER		<i>Bidens cernua</i>	nodding beggar-ticks, nodding bur-mari	4	OBL	Native	herb	annual	0	0	<i>Bidens cernua</i>
BROINE		<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CALCAN		<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CALSEP		<i>Calystegia sepium</i>	hedge bindweed, hedge false bindweed	2	FAC	Native	herb	perennial	0	0	<i>Calystegia sepium</i>
CARBEB		<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CARBLA		<i>Carex blanda</i>	common wood sedge, eastern woodlan	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARCRI1		<i>Carex cristatella</i>	crested oval sedge, crested sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex cristatella</i>
CARMOL		<i>Carex molesta</i>	field oval sedge, troublesome sedge	2	FAC	Native	herb	perennial	0	0	<i>Carex molesta</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEL		<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARPEN		<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CARROSE		<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CARSTR		<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CARTENE		<i>Carex tenera</i>	marsh straw sedge, narrow-leaved oval	4	FACW/FAC	Native	herb	perennial	0	0	<i>Carex tenera</i>
CARVUL		<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CIRARV		<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRCAN		<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRVUL		<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CONCAN		<i>Conyza canadensis</i>	Canadian horseweed, fleabane, hogwee	0	FACU	Native	herb	0	0	0	<i>Conyza canadensis</i>
CORRAC		<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER		<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRYCAN		<i>Cryptotaenia canadensis</i>	Canadian honewort, white chervil	4	FAC	Native	herb	perennial	0	0	<i>Cryptotaenia canadensis</i>
DACGLO		<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
DUCIND		<i>Duchesnea indica</i>	false strawberry, Indian strawberry	0	FACU	Introduced	herb	perennial	0	0	<i>Duchesnea indica</i>
ECHCRU		<i>Echinochloa crus-galli</i>	barnyard grass, large barnyard grass	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Echinochloa crus-galli</i>
ECHLOB		<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ELAUMB		<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ELEOBT		<i>Eleocharis obtusa</i>	blunt spike-rush	3	OBL	Native	herb	annual/peren	0	0	<i>Eleocharis obtusa</i>
EQUARV		<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
EREHIE		<i>Erechtites hieraciifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieraciifolius</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
ERISTR		<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
EUPPER		<i>Eupatorium perfoliatum</i>	boneset, common boneset, thoroughwo	6	OBL/FACW	Native	herb	perennial	0	0	<i>Eupatorium perfoliatum</i>
EUTMAC		<i>Eutrochium maculatum</i>	spotted Joe-Pye-weed	4	OBL	Native	herb	perennial	0	0	<i>Eutrochium maculatum</i>
FESRUB		<i>Festuca rubra</i>	red fescue	0	FACU	Introduced	herb	perennial	0	0	<i>Festuca rubra</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
FILRUB		<i>Filipendula rubra</i>	queen-of-the-prairie	0	OBL/FACW	Introduced	herb	perennial	0	0	<i>Filipendula rubra</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR		<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GALAPA		<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GENALB		<i>Gentiana alba</i>	cream gentian, pale gentian, yellow ger.	7	FACU	Native	herb	perennial	0	0	<i>Gentiana alba</i>
GEUALE		<i>Geum aleppicum</i>	yellow avens	3	FACW/FAC	Native	herb	perennial	0	0	<i>Geum aleppicum</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED		<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, g	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HACVIR		<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HELGRO		<i>Helianthus grosseserratus</i>	saw-tooth sunflower	2	FACW	Native	herb	perennial	0	0	<i>Helianthus grosseserratus</i>
HEMFUL		<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
HYPPER		<i>Hypericum perforatum</i>	common St. John's-wort, Klamath-weed	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Hypericum perforatum</i>
IMPCAP		<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
IRIVIR		<i>Iris virginica</i>	southern blue flag, Virginia iris	5	OBL	Native	herb	perennial	0	0	<i>Iris virginica</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNDUD		<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
JUNVIR		<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LEEORY		<i>Leersia oryzoides</i>	rice cut grass	3	OBL	Native	herb	perennial	0	0	<i>Leersia oryzoides</i>
LEOCAR		<i>Leonurus cardiaca</i>	lion's-tail, motherwort	0	0	Introduced	herb	perennial	0	0	<i>Leonurus cardiaca</i>
LILMIC		<i>Lilium michiganense</i>	Michigan lily, Turk's-cap lily	6	FACW	Native	herb	perennial	0	0	<i>Lilium michiganense</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYCAME		<i>Lycopus americanus</i>	American water-horehound, common w	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
LYSNUM		<i>Lysimachia nummularia</i>	creeping-Charlie, creeping-Jennie, mone	0	FACW	Introduced	herb	perennial	0	Restricted	<i>Lysimachia nummularia</i>
MALPUM		<i>Malus pumila</i>	cultivated apple	0	0	Introduced	tree	perennial	0	0	<i>Malus pumila</i>
MATSTR		<i>Matteuccia struthiopteris</i>	American ostrich fern, ostrich fern	5	FACW/FAC	Native	herb	perennial	0	0	<i>Matteuccia struthiopteris</i>
MEDLUP		<i>Medicago lupulina</i>	black medick	0	FACU	Introduced	herb	annual/bienr	0	0	<i>Medicago lupulina</i>
MELALB		<i>Mellilotus albus</i>	white sweet-clover	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	<i>Mellilotus albus</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB		<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
MUHMEX		<i>Muhlenbergia mexicana</i>	leafy satin grass, Mexican muhly, wire-s	4	FACW	Native	herb	perennial	0	0	<i>Muhlenbergia mexicana</i>
ONOUSEN		<i>Onoclea sensibilis</i>	sensitive fern	5	FACW	Native	herb	perennial	0	0	<i>Onoclea sensibilis</i>
OXASTR		<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT		<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PENSED		<i>Penthorum sedoides</i>	ditch stonecrop	3	OBL	Native	herb	perennial	0	0	<i>Penthorum sedoides</i>
PERAMP		<i>Persicaria amphibia</i>	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	<i>Persicaria amphibia</i>
PERHYD		<i>Persicaria hydropiper</i>	marsh-pepper smartweed, water-peppe	0	OBL	Introduced	herb	annual	0	0	<i>Persicaria hydropiper</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
PERMAC		<i>Persicaria maculosa</i>	heart's-ease, spotted lady's-thumb	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Persicaria maculosa</i>
PERSAG		<i>Persicaria sagittata</i>	arrow-leaved tearthumb, arrow vine	6	OBL	Native	herb	annual	0	0	<i>Persicaria sagittata</i>
PERVIR		<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/peren	0	0	<i>Persicaria virginiana</i>
PHAARU		<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHYALK		<i>Physalis alkekengi</i>	Chinese lantern-plant, strawberry gour.	0	0	Introduced	herb	perennial	0	0	<i>Physalis alkekengi</i>
PHYAME		<i>Phytolacca americana</i>	American pokeberry, pokeweed	1	FACU	Native	herb	perennial	0	0	<i>Phytolacca americana</i>
PILPUM		<i>Pilea pumila</i>	Canadian clearweed	3	FACW	Native	herb	annual	0	0	<i>Pilea pumila</i>
PLAMAJ		<i>Plantago major</i>	broad-leaved plantain, common plantain	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Plantago major</i>
POAPAL		<i>Poa palustris</i>	fowl meadow grass, marsh bluegrass	5	FACW	Native	herb	perennial	0	0	<i>Poa palustris</i>
POAPRA		<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
POPDEL		<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
PRUSER		<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PRUVIR		<i>Prunus virginiana</i>	chokecherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus virginiana</i>
PRUVUL		<i>Prunella vulgaris</i>	heal-all, lawn prunella, self-heal	1	FAC	Native	herb	perennial	0	0	<i>Prunella vulgaris</i>
PYCVIR		<i>Pycnanthemum virginianum</i>	common mountain mint, Virginia mouni	6	FACW	Native	herb	perennial	0	0	<i>Pycnanthemum virginianum</i>
QUEALB		<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEMAC		<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUEELL		<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
QUERUB		<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RANABO		<i>Ranunculus abortivus</i>	little-leaf buttercup, small-flowered but.	1	FACW/FAC	Native	herb	biennial/per	0	0	<i>Ranunculus abortivus</i>
RHACAT		<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA		<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RIBAME		<i>Ribes americanum</i>	American black currant, eastern black c	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
ROBPSE		<i>Robinia pseudoacacia</i>	black locust	0	FACU	Introduced	tree	perennial	0	Restricted	<i>Robinia pseudoacacia</i>
ROSMUL		<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL		<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC		<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
RUMCRI		<i>Rumex crispus</i>	curly dock, sour dock	0	FAC	Introduced	herb	perennial	0	0	<i>Rumex crispus</i>
RUMVER		<i>Rumex verticillatus</i>	swamp dock, water dock	6	OBL	Native	herb	perennial	0	0	<i>Rumex verticillatus</i>
SALDIS		<i>Salix discolor</i>	pussy willow	2	FACW	Native	tree	perennial	0	0	<i>Salix discolor</i>
SALHUM		<i>Salix humilis</i>	prairie willow, upland willow	6	FACU	Native	shrub	perennial	0	0	<i>Salix humilis</i>
SALINT		<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG		<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SAMCAN		<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SANODO		<i>Sanicula odorata</i>	clustered black snakeroot	3	FAC	Native	herb	perennial	0	0	<i>Sanicula odorata</i>
SCHTAB		<i>Schoenoplectus tabernaemontani</i>	great bulrush, soft-stem bulrush	4	OBL	Native	herb	perennial	0	0	<i>Schoenoplectus tabernaemontani</i>
SCIATR		<i>Scirpus atrovirens</i>	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	<i>Scirpus atrovirens</i>

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SITE NAME:	Indian Mound/Thrun Marsh Conservancies Summer 2022		PLANT COMMUNITY:	Southern Dry-mesic Forest & Southern Mesic Forest
ASSESSMENT AREA NAME:	ITMU-1 Southern Dry-mesic Forest & Southern Mesic Forest		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/20/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
104	76	28	52%	18%	34.9	36.4	4.0	4.2	29.8	35.5	2.9	3.5	4.2	1.4	3.1	0.0
													152%	38%	99%	0%

:Total Cover

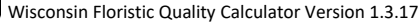
ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACEPLA	1	<i>Acer platanoides</i>	Norway maple	0	UPL	Introduced	tree	perennial	0	Caution	<i>Acer platanoides</i>
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGIG	2	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANEVIR	1	<i>Anemone virginiana</i>	tall anemone, tall thimbleweed	5	FACU	Native	herb	perennial	0	0	<i>Anemone virginiana</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ARITRI	2	<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
ASACAN	1	<i>Asarum canadense</i>	Canadian wild-ginger, wild-ginger	7	FACU/UPL	Native	herb	perennial	0	0	<i>Asarum canadense</i>
BETPAP	1	<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
BLEHIR	2	<i>Blephilia hirsuta</i>	hairy pagoda-plant, hairy wood mint	7	FACU	Native	herb	perennial	0	0	<i>Blephilia hirsuta</i>
BROLAT	1	<i>Bromus latiglumis</i>	ear-leaved brome, hairy woodbrome, flk	6	FACW	Native	herb	perennial	0	0	<i>Bromus latiglumis</i>
CAMAME	1	<i>Campanulastrum americanum</i>	American bellflower, tall bellflower	4	FAC	Native	herb	0	0	0	<i>Campanula americana</i>
CARBLA	1	<i>Carex blanda</i>	common wood sedge, eastern woodlan	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARBRO	1	<i>Carex bromoides</i>	brome-like sedge	8	FACW	Native	herb	perennial	0	0	<i>Carex bromoides</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CARCEPHALOP	2	<i>Carex cephalophora</i>	oval-headed sedge, short-headed bract	4	FACU	Native	herb	perennial	0	0	<i>Carex cephalophora</i>
CARDEB	1	<i>Carex debilis</i>	weak sedge, white-edge sedge	5	FACW	Native	herb	perennial	0	0	<i>Carex debilis</i>
CARGRI	1	<i>Carex grisea</i>	eastern narrow-leaved sedge, gray sedg	4	FAC	Native	herb	perennial	0	0	<i>Carex grisea</i>
CARROSE	1	<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CARSPR	1	<i>Carex sprengei</i>	long-beaked sedge, Sprengel's sedge	6	FAC	Native	herb	perennial	0	0	<i>Carex sprengei</i>
CAROVAT	8	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CATSPE	1	<i>Catalpa speciosa</i>	northern catalpa	0	FACU	Introduced	tree	perennial	0	0	<i>Catalpa speciosa</i>
CELOB	10	<i>Celastrus orbiculatus</i>	Asian bittersweet, Asiatic bittersweet, C	0	UPL	Introduced	shrub	perennial	0	Restricted	<i>Celastrus orbiculatus</i>
CELOCC	23	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CIRCAN	2	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CERCAN	1	<i>Cercis canadensis</i>	Eastern redbud	0	FACU	Introduced	tree	perennial	0	0	<i>Cercis canadensis</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CONMAJ	3	<i>Convallaria majalis</i>	European lily-of-the-valley, lily-of-the-vc	0	0	Introduced	herb	0	0	Non-Restricted	<i>Convallaria majalis</i>
CORRAC	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DACGLO	1	<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DRYCAR	1	<i>Dryopteris carthusiana</i>	spinulose wood fern, toothed wood fern	7	FACW	Native	herb	perennial	0	0	<i>Dryopteris carthusiana</i>
ECHLOB	1	<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ELYCAN	1	<i>Elymus canadensis</i>	Canada wild-rye	4	FACU	Native	herb	perennial	0	0	<i>Elymus canadensis</i>
ELYHYS	2	<i>Elymus hystrix</i>	bottlebrush grass, eastern bottlebrush g	6	FACU	Native	herb	perennial	0	0	<i>Elymus hystrix</i>
ELYVIL	2	<i>Elymus villosus</i>	downy wild-rye, hairy wild-rye, silky wil	6	FACU	Native	herb	0	0	0	<i>Elymus villosus</i>
ELYVIR	1	<i>Elymus virginicus</i>	common eastern wild-rye, Virginia wild-	6	FACW	Native	herb	perennial	0	0	<i>Elymus virginicus</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
EUTPUR	3	<i>Eutrochium purpureum</i>	green-stemmed Joe-Pye-weed, purple Jc	6	FAC	Native	herb	perennial	0	0	<i>Eutrochium purpureum</i>
FRAPEN	5	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, g	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HACVIR	2	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HEMFUL	1	<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
JUGNIG	20	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LAMMAC	1	<i>Lamium maculatum</i>	red dead-nettle, spotted henbit, variega	0	0	Introduced	herb	perennial	0	0	<i>Lamium maculatum</i>
LEEVIR	1	<i>Leersia virginica</i>	white grass	5	FACW	Native	herb	perennial	0	0	<i>Leersia virginica</i>
LEOCAR	1	<i>Leonurus cardiaca</i>	lion's-tail, motherwort	0	0	Introduced	herb	perennial	0	0	<i>Leonurus cardiaca</i>
LIGVUL	1	<i>Ligustrum vulgare</i>	common privet, European privet	0	FACU	Introduced	shrub	perennial	0	Caution	<i>Ligustrum vulgare</i>
LOLARU	5	<i>Lolium arundinaceum</i>	reed fescue, rye grass, tall fescue	0	FACU	Introduced	herb	0	0	0	<i>Schedonorus arundinaceus</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
LONTAT	5	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MAIRAC	8	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MAISTE	1	<i>Maianthemum stellatum</i>	little false, starflower, & starry false Sol	5	FAC	Native	herb	perennial	0	0	<i>Maianthemum stellatum</i>
MATSTR	1	<i>Matteuccia struthiopteris</i>	American ostrich fern, ostrich fern	5	FACW/FAC	Native	herb	perennial	0	0	<i>Matteuccia struthiopteris</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB	1	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
NEPCAT	1	<i>Nepeta cataria</i>	catnip	0	FACU	Introduced	herb	perennial	0	0	<i>Nepeta cataria</i>
OSMCLA1	1	<i>Osmorhiza claytonii</i>	bland sweet cicely	5	FACU	Native	herb	perennial	0	0	<i>Osmorhiza claytonii</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI	16	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PERMAC	1	<i>Persicaria maculosa</i>	heart's-ease, spotted lady's-thumb	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Persicaria maculosa</i>
PERVIR	2	<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/peren	0	0	<i>Persicaria virginiana</i>
PHAARU	1	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHRLEP	1	<i>Phryma leptostachya</i>	American lop-seed	5	UPL/FACU	Native	herb	perennial	0	0	<i>Phryma leptostachya</i>
PHYAME	1	<i>Phytolacca americana</i>	American pokeberry, pokeweed	1	FACU	Native	herb	perennial	0	0	<i>Phytolacca americana</i>
PICABI	1	<i>Picea abies</i>	Norway spruce	0	0	Introduced	tree	perennial	0	0	<i>Picea abies</i>
PILPUM	1	<i>Pilea pumila</i>	Canadian clearweed	3	FACW	Native	herb	annual	0	0	<i>Pilea pumila</i>
PINRES	1	<i>Pinus resinosa</i>	Canadian pine, Norway pine, red pine	7	FACU	Native	tree	perennial	0	0	<i>Pinus resinosa</i>
POAPRA	1	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PODPEL	1	<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POLBIF	1	<i>Polygonatum biflorum</i>	King Solomon's-seal, smooth Solomon's-	4	FACU	Native	herb	perennial	0	0	<i>Polygonatum biflorum</i>
POPTRE	1	<i>Populus tremuloides</i>	aspen, quaking aspen	2	FAC/FAC*	Native	tree	perennial	0	0	<i>Populus tremuloides</i>
PRUSER	6	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
QUEALB	15	<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEELL	1	<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
QUEMAC	5	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB	21	<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RHACAT	4	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA	1	<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RIBAME	1	<i>Ribes americanum</i>	American black currant, eastern black c	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
ROSMUL	1	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL	1	<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC	3	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SAMCAN	2	<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SANGCAN	1	<i>Sanguinaria canadensis</i>	bloodroot	6	FACU	Native	herb	perennial	0	0	<i>Sanguinaria canadensis</i>
SANODO	1	<i>Sanicula odorata</i>	clustered black snakeroot	3	FAC	Native	herb	perennial	0	0	<i>Sanicula odorata</i>
SCRMAR	1	<i>Scrophularia marilandica</i>	carpenter's-square, eastern figwort, lat	4	FACU	Native	herb	perennial	0	0	<i>Scrophularia marilandica</i>

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SITE NAME:	Indian Mound/Thrun Marsh Conservancies Summer 2022		PLANT COMMUNITY:	Southern Hardwood Swamp & Emergent Marsh
ASSESSMENT AREA NAME:	ITMU-2 Southern Hardwood Swamp & Emergent Marsh		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/20/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
101	75	26	83%	40%	34.8	31.5	4.0	3.6	30.0	24.0	3.0	2.4	2.7	2.5	2.2	3.0
													58%	42%	107%	2%

:Total Cover

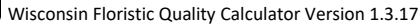
ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACEPLA	2	<i>Acer platanoides</i>	Norway maple	0	UPL	Introduced	tree	perennial	0	Caution	<i>Acer platanoides</i>
ACESACCHARI	5	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
ALLCAN	1	<i>Allium canadense</i>	meadow garlic, wild garlic, wild onion	4	FACU	Native	herb	biennial/perennial	0	0	<i>Allium canadense</i>
AMBTRI	1	<i>Ambrosia trifida</i>	giant ragweed, great ragweed, horse-c	0	FAC	Native	herb	annual	0	0	<i>Ambrosia trifida</i>
ANECAN	1	<i>Anemone canadensis</i>	Canada anemone, Canadian anemone, i	4	FACW	Native	herb	perennial	0	0	<i>Anemone canadensis</i>
ARITRI	1	<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
ASCINC	1	<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
BIDCER	1	<i>Bidens cernua</i>	nodding beggar-ticks, nodding bur-mari	4	OBL	Native	herb	annual	0	0	<i>Bidens cernua</i>
BLEHIR	1	<i>Blephilia hirsuta</i>	hairy pagoda-plant, hairy wood mint	7	FACU	Native	herb	perennial	0	0	<i>Blephilia hirsuta</i>
BOLFLU	1	<i>Bolboschoenus fluviatilis</i>	river bulrush	6	OBL	Native	herb	perennial	0	0	<i>Bolboschoenus fluviatilis</i>
CALCAN	1	<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARDAV	1	<i>Carex davisii</i>	awned graceful sedge, Davis' sedge	8	FAC	Native	herb	perennial	0	0	<i>Carex davisii</i>
CARLAC	1	<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CARPEL	1	<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARSTR	2	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CARVUL	1	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CELOCC	3	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CICBUL	1	<i>Cicuta bulbifera</i>	bulblet water-hemlock	7	OBL	Native	herb	perennial	0	0	<i>Cicuta bulbifera</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRCAN	2	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CORSER	10	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRAMOL	1	<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
CUSGRO	1	<i>Cuscuta gronovii</i>	common dodder, scald-weed, swamp dc	4	0	Native	herb	annual/peren	0	0	<i>Cuscuta gronovii</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
DIAOBO	1	<i>Diarrhena obovata</i>	obovate beak grain	10	FAC/FACU	Native	herb	perennial	Endangered	0	<i>Diarrhena obovata</i>
ECHLOB	1	<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ECHVUL	1	<i>Echium vulgare</i>	blueweed, common viper's-bugloss, vipe	0	0	Introduced	herb	biennial	0	0	<i>Echium vulgare</i>
ELYCAN	1	<i>Elymus canadensis</i>	Canada wild-rye	4	FACU	Native	herb	perennial	0	0	<i>Elymus canadensis</i>
ELYHYS	1	<i>Elymus hystrix</i>	bottlebrush grass, eastern bottlebrush g	6	FACU	Native	herb	perennial	0	0	<i>Elymus hystrix</i>
ELYVIR	1	<i>Elymus virginicus</i>	common eastern wild-rye, Virginia wild-	6	FACW	Native	herb	perennial	0	0	<i>Elymus virginicus</i>
EPICOL	1	<i>Epilobium coloratum</i>	cinnamon willow-herb, eastern willow-t	3	OBL	Native	herb	perennial	0	0	<i>Epilobium coloratum</i>
ERISTR	2	<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
FRAPEN	10	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	2	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, g	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
GLETRI	1	<i>Gleditsia triacanthos</i>	honey locust	7	FACU/FAC	Native	tree	perennial	0	0	<i>Gleditsia triacanthos</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HESMAT	1	<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
IMPCAP	2	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	5	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNDUD	1	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LOLARU	1	<i>Lolium arundinaceum</i>	reed fescue, rye grass, tall fescue	0	FACU	Introduced	herb	0	0	0	<i>Schedonorus arundinaceus</i>
LONTAT	10	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYSCIL	1	<i>Lysimachia ciliata</i>	fringed loosestrife	5	FACW	Native	herb	perennial	0	0	<i>Lysimachia ciliata</i>
LYTSAL	1	<i>Lythrum salicaria</i>	purple loosestrife, spiked loosestrife	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Lythrum salicaria</i>
MAIRAC	1	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MELALB	1	<i>Melilotus albus</i>	white sweet-clover	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	<i>Melilotus albus</i>
MIMRIN	1	<i>Mimulus ringens</i>	Allegheny monkey-flower, monkey-flow	6	OBL	Native	herb	perennial	0	0	<i>Mimulus ringens</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB	2	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
OENBIE	1	<i>Oenothera biennis</i>	bastard evening-primrose, common eve	1	FACU	Native	herb	biennial/per	0	0	<i>Oenothera biennis</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI	2	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PENSED	1	<i>Penthorum sedoides</i>	ditch stonecrop	3	OBL	Native	herb	perennial	0	0	<i>Penthorum sedoides</i>
PERAMP	1	<i>Persicaria amphibia</i>	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	<i>Persicaria amphibia</i>
PHAARU	5	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PILPUM	1	<i>Pilea pumila</i>	Canadian clearweed	3	FACW	Native	herb	annual	0	0	<i>Pilea pumila</i>
POAPAL	1	<i>Poa palustris</i>	fowl meadow grass, marsh bluegrass	5	FACW	Native	herb	perennial	0	0	<i>Poa palustris</i>
POAPRA	1	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
POPDEL	5	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
PRUAME	2	<i>Prunus americana</i>	American plum, wild plum	3	UPL	Native	shrub	perennial	0	0	<i>Prunus americana</i>
PRUVIR	1	<i>Prunus virginiana</i>	chokecherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus virginiana</i>
QUEBIC	1	<i>Quercus bicolor</i>	swamp white oak	7	FACW	Native	tree	perennial	0	0	<i>Quercus bicolor</i>
RANACR	1	<i>Ranunculus acris</i>	common buttercup, blister plant, mead	0	FAC	Introduced	herb	perennial	0	0	<i>Ranunculus acris</i>
RANHIS	1	<i>Ranunculus hispidus</i>	bristly buttercup, hispid buttercup, roug	6	FAC	Native	herb	perennial	0	0	<i>Ranunculus hispidus</i>
RHACAT	5	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBAME	3	<i>Ribes americanum</i>	American black currant, eastern black c	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
ROBPSE	1	<i>Robinia pseudoacacia</i>	black locust	0	FACU	Introduced	tree	perennial	0	Restricted	<i>Robinia pseudoacacia</i>
ROSMUL	1	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBOCC	2	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
RUMCRI	1	<i>Rumex crispus</i>	curly dock, sour dock	0	FAC	Introduced	herb	perennial	0	0	<i>Rumex crispus</i>
RUMORB	1	<i>Rumex britannica</i>	great water dock	8	OBL	Native	herb	0	0	0	<i>Rumex britannica</i>
SAGLAT	2	<i>Sagittaria latifolia</i>	broad-leaved arrowhead	3	OBL	Native	aquatic	perennial	0	0	<i>Sagittaria latifolia</i>
SALBAB	10	<i>Salix alba</i> f. cv. 'Vitellina'	weeping willow	0	FACW	Excluded	tree	0	0	0	<i>Salix alba</i> L. f. cv. <i>Vitellina</i>
SALINT	1	<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG	1	<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SAMCAN	2	<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra</i> ssp. <i>canadensis</i>
SANODO	1	<i>Sanicula odorata</i>	clustered black snakeroot	3	FAC	Native	herb	perennial	0	0	<i>Sanicula odorata</i>
SCIATR	1	<i>Scirpus atrovirens</i>	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	<i>Scirpus atrovirens</i>
SOLDUL	1	<i>Solanum dulcamara</i>	bittersweet nightshade	0	FAC	Introduced	herb	perennial	0	0	<i>Solanum dulcamara</i>
SOLGIG	1	<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>
SONASP	1	<i>Sonchus asper</i>	prickly sow-thistle, spiny sow-thistle	0	FACU	Introduced	herb	annual	0	0	<i>Sonchus asper</i>
SYMFIR	1	<i>Symphyotrichum firmum</i>	glossy-leaved aster	6	OBL	Native	herb	perennial	0	0	<i>Symphyotrichum firmum</i>
SYMLAN	1	<i>Symphyotrichum lanceolatum</i>	panicled aster	4	FAC/FACW	Native	herb	perennial	0	0	<i>Symphyotrichum lanceolatum</i>
SYMLAT	2	<i>Symphyotrichum lateriflorum</i>	side-flowering aster	3	FACW/FAC	Native	herb	perennial	0	0	<i>Symphyotrichum lateriflorum</i>

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SITE NAME:	Indian Mound/Thrun Marsh Conservancies Summer 2022		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/20/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
164	123	41			45.7		4.1		39.6		3.1					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACEPLA		<i>Acer platanoides</i>	Norway maple	0	UPL	Introduced	tree	perennial	0	Caution	<i>Acer platanoides</i>
ACESACCHARI		<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
ACHMIL		<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGEALT		<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGIG		<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLCAN		<i>Allium canadense</i>	meadow garlic, wild garlic, wild onion	4	FACU	Native	herb	biennial/perennial	0	0	<i>Allium canadense</i>
ALLPET		<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
AMBTRI		<i>Ambrosia trifida</i>	giant ragweed, great ragweed, horse-cc	0	FAC	Native	herb	annual	0	0	<i>Ambrosia trifida</i>
ANECAN		<i>Anemone canadensis</i>	Canada anemone, Canadian anemone, 1	4	FACW	Native	herb	perennial	0	0	<i>Anemone canadensis</i>
ANEVIR		<i>Anemone virginiana</i>	tall anemone, tall thimbleweed	5	FACU	Native	herb	perennial	0	0	<i>Anemone virginiana</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ARITRI		<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
ASACAN		<i>Asarum canadense</i>	Canadian wild-ginger, wild-ginger	7	FACU/UPL	Native	herb	perennial	0	0	<i>Asarum canadense</i>
ASCINC		<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
BETPAP		<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
BIDCER		<i>Bidens cernua</i>	nodding beggar-ticks, nodding bur-mari	4	OBL	Native	herb	annual	0	0	<i>Bidens cernua</i>
BLEHIR		<i>Blephilia hirsuta</i>	hairy pagoda-plant, hairy wood mint	7	FACU	Native	herb	perennial	0	0	<i>Blephilia hirsuta</i>
BOLFLU		<i>Bolboschoenus fluviatilis</i>	river bulrush	6	OBL	Native	herb	perennial	0	0	<i>Bolboschoenus fluviatilis</i>
BROLAT		<i>Bromus latiglumis</i>	ear-leaved brome, hairy woodbrome, flk	6	FACW	Native	herb	perennial	0	0	<i>Bromus latiglumis</i>
CALCAN		<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CAMAME		<i>Campanulastrum americanum</i>	American bellflower, tall bellflower	4	FAC	Native	herb	0	0	0	<i>Campanula americana</i>
CARBLA		<i>Carex blanda</i>	common wood sedge, eastern woodlan	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARBRO		<i>Carex bromoides</i>	brome-like sedge	8	FACW	Native	herb	perennial	0	0	<i>Carex bromoides</i>
CARCEPHAL OP		<i>Carex cephalophora</i>	oval-headed sedge, short-headed bract	4	FACU	Native	herb	perennial	0	0	<i>Carex cephalophora</i>
CARDAV		<i>Carex davisii</i>	awned graceful sedge, Davis' sedge	8	FAC	Native	herb	perennial	0	0	<i>Carex davisii</i>
CARDEB		<i>Carex debilis</i>	weak sedge, white-edge sedge	5	FACW	Native	herb	perennial	0	0	<i>Carex debilis</i>
CARGRI		<i>Carex grisea</i>	eastern narrow-leaved sedge, gray sedg	4	FAC	Native	herb	perennial	0	0	<i>Carex grisea</i>
CARLAC		<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEL		<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARROSE		<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CARSPR		<i>Carex sprengelii</i>	long-beaked sedge, Sprengel's sedge	6	FAC	Native	herb	perennial	0	0	<i>Carex sprengelii</i>
CARSTR		<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CARVUL		<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CATSPE		<i>Catalpa speciosa</i>	northern catalpa	0	FACU	Introduced	tree	perennial	0	0	<i>Catalpa speciosa</i>
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CELOBR		<i>Celastrus orbiculatus</i>	Asian bittersweet, Asiatic bittersweet, C	0	UPL	Introduced	shrub	perennial	0	Restricted	<i>Celastrus orbiculatus</i>
CERCAN		<i>Cercis canadensis</i>	Eastern redbud	0	FACU	Introduced	tree	perennial	0	0	<i>Cercis canadensis</i>
CICBUL		<i>Cicuta bulbifera</i>	bulblet water-hemlock	7	OBL	Native	herb	perennial	0	0	<i>Cicuta bulbifera</i>
CIRARV		<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRCAN		<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRVUL		<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CONMAJ		<i>Convallaria majalis</i>	European lily-of-the-valley, lily-of-the-vc	0	0	Introduced	herb	0	0	Non-Restricted	<i>Convallaria majalis</i>
CORRAC		<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER		<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRAMOL		<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
CUSGRO		<i>Cuscuta gronovii</i>	common dodder, scald-weed, swamp dc	4	0	Native	herb	annual/peren	0	0	<i>Cuscuta gronovii</i>
DACGLO		<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
DIAOBO		<i>Diarrhena obovata</i>	obovate beak grain	10	FAC/FACU	Native	herb	perennial	Endangered	0	<i>Diarrhena obovata</i>



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DRYCAR		<i>Dryopteris carthusiana</i>	spinulose wood fern, toothed wood fern	7	FACW	Native	herb	perennial	0	0	<i>Dryopteris carthusiana</i>
ECHLOB		<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ECHVUL		<i>Echium vulgare</i>	blueweed, common viper's-bugloss, viper's bugloss	0	0	Introduced	herb	biennial	0	0	<i>Echium vulgare</i>
ELYCAN		<i>Elymus canadensis</i>	Canada wild-rye	4	FACU	Native	herb	perennial	0	0	<i>Elymus canadensis</i>
ELYHYS		<i>Elymus hystrix</i>	bottlebrush grass, eastern bottlebrush grass	6	FACU	Native	herb	perennial	0	0	<i>Elymus hystrix</i>
ELYVIL		<i>Elymus villosus</i>	downy wild-rye, hairy wild-rye, silky wild-rye	6	FACU	Native	herb	0	0	0	<i>Elymus villosus</i>
ELYVIR		<i>Elymus virginicus</i>	common eastern wild-rye, Virginia wild-rye	6	FACW	Native	herb	perennial	0	0	<i>Elymus virginicus</i>
EPICOL		<i>Epilobium coloratum</i>	cinnamon willow-herb, eastern willow-herb	3	OBL	Native	herb	perennial	0	0	<i>Epilobium coloratum</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
ERISTR		<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough juncos	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
EUTPUR		<i>Eutrochium purpureum</i>	green-stemmed Joe-Pye-weed, purple Joe-Pye-weed	6	FAC	Native	herb	perennial	0	0	<i>Eutrochium purpureum</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA		<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass, goose-tail	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED		<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, gill-over-the-leaf	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
GLETRI		<i>Gleditsia triacanthos</i>	honey locust	7	FACU/FAC	Native	tree	perennial	0	0	<i>Gleditsia triacanthos</i>
HACVIR		<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HEMFUL		<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
HESMAT		<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/perennial	0	Restricted	<i>Hesperis matronalis</i>
IMPCAP		<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-not	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNDUD		<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
JUNVIR		<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LAMMAC		<i>Lamium maculatum</i>	red dead-nettle, spotted henbit, variegate henbit	0	0	Introduced	herb	perennial	0	0	<i>Lamium maculatum</i>
LEEVIR		<i>Leersia virginica</i>	white grass	5	FACW	Native	herb	perennial	0	0	<i>Leersia virginica</i>
LEOCAR		<i>Leonurus cardiaca</i>	lion's-tail, motherwort	0	0	Introduced	herb	perennial	0	0	<i>Leonurus cardiaca</i>
LIGVUL		<i>Ligustrum vulgare</i>	common privet, European privet	0	FACU	Introduced	shrub	perennial	0	Caution	<i>Ligustrum vulgare</i>
LOLARU		<i>Lolium arundinaceum</i>	reed fescue, rye grass, tall fescue	0	FACU	Introduced	herb	0	0	0	<i>Schedonorus arundinaceus</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYSCIL		<i>Lysimachia ciliata</i>	fringed loosestrife	5	FACW	Native	herb	perennial	0	0	<i>Lysimachia ciliata</i>
LYTSAL		<i>Lythrum salicaria</i>	purple loosestrife, spiked loosestrife	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Lythrum salicaria</i>
MAIRAC		<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, lady's-ear	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MAISTE		<i>Maianthemum stellatum</i>	little false, starflower, & starry false Solomon's-seal	5	FAC	Native	herb	perennial	0	0	<i>Maianthemum stellatum</i>
MATSTR		<i>Matteuccia struthiopteris</i>	American ostrich fern, ostrich fern	5	FACW/FAC	Native	herb	perennial	0	0	<i>Matteuccia struthiopteris</i>
MELALB		<i>Mellilotus albus</i>	white sweet-clover	0	0	Introduced	herb	annual/biennial	0	Non-Restricted	<i>Mellilotus albus</i>
MIMRIN		<i>Mimulus ringens</i>	Allegheny monkey-flower, monkey-flow	6	OBL	Native	herb	perennial	0	0	<i>Mimulus ringens</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>



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MORALB		<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
NEPCAT		<i>Nepeta cataria</i>	catnip	0	FACU	Introduced	herb	perennial	0	0	<i>Nepeta cataria</i>
OENBIE		<i>Oenothera biennis</i>	bastard evening-primrose, common eve	1	FACU	Native	herb	biennial/per	0	0	<i>Oenothera biennis</i>
OSMCLA1		<i>Osmorhiza claytonii</i>	bland sweet cicely	5	FACU	Native	herb	perennial	0	0	<i>Osmorhiza claytonii</i>
OXASTR		<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PENSED		<i>Penthorum sedoides</i>	ditch stonecrop	3	OBL	Native	herb	perennial	0	0	<i>Penthorum sedoides</i>
PERAMP		<i>Persicaria amphibia</i>	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	<i>Persicaria amphibia</i>
PERMAC		<i>Persicaria maculosa</i>	heart's-ease, spotted lady's-thumb	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Persicaria maculosa</i>
PERVIR		<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/peren	0	0	<i>Persicaria virginiana</i>
PHAARU		<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHRLEP		<i>Phryma leptostachya</i>	American lop-seed	5	UPL/FACU	Native	herb	perennial	0	0	<i>Phryma leptostachya</i>
PHYAME		<i>Phytolacca americana</i>	American pokeberry, pokeweed	1	FACU	Native	herb	perennial	0	0	<i>Phytolacca americana</i>
PICABI		<i>Picea abies</i>	Norway spruce	0	0	Introduced	tree	perennial	0	0	<i>Picea abies</i>
PILPUM		<i>Pilea pumila</i>	Canadian clearweed	3	FACW	Native	herb	annual	0	0	<i>Pilea pumila</i>
PINRES		<i>Pinus resinosa</i>	Canadian pine, Norway pine, red pine	7	FACU	Native	tree	perennial	0	0	<i>Pinus resinosa</i>
POAPAL		<i>Poa palustris</i>	fowl meadow grass, marsh bluegrass	5	FACW	Native	herb	perennial	0	0	<i>Poa palustris</i>
POAPRA		<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PODPEL		<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POLBIF		<i>Polygonatum biflorum</i>	King Solomon's-seal, smooth Solomon's	4	FACU	Native	herb	perennial	0	0	<i>Polygonatum biflorum</i>
POPDEL		<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
POPTRE		<i>Populus tremuloides</i>	aspen, quaking aspen	2	FAC/FAC*	Native	tree	perennial	0	0	<i>Populus tremuloides</i>
PRUAME		<i>Prunus americana</i>	American plum, wild plum	3	UPL	Native	shrub	perennial	0	0	<i>Prunus americana</i>
PRUSER		<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PRUVIR		<i>Prunus virginiana</i>	chokecherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus virginiana</i>
QUEALB		<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEBIC		<i>Quercus bicolor</i>	swamp white oak	7	FACW	Native	tree	perennial	0	0	<i>Quercus bicolor</i>
QUEELL		<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
QUEMAC		<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB		<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RANACR		<i>Ranunculus acris</i>	common buttercup, blister plant, mead	0	FAC	Introduced	herb	perennial	0	0	<i>Ranunculus acris</i>
RANHIS		<i>Ranunculus hispidus</i>	bristly buttercup, hispid buttercup, roug	6	FAC	Native	herb	perennial	0	0	<i>Ranunculus hispidus</i>
RHACAT		<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA		<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RIBAME		<i>Ribes americanum</i>	American black currant, eastern black c	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
ROBPSE		<i>Robinia pseudoacacia</i>	black locust	0	FACU	Introduced	tree	perennial	0	Restricted	<i>Robinia pseudoacacia</i>
ROSMUL		<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>



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RUBALL		<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC		<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
RUMCRI		<i>Rumex crispus</i>	curly dock, sour dock	0	FAC	Introduced	herb	perennial	0	0	<i>Rumex crispus</i>
RUMORB		<i>Rumex britannica</i>	great water dock	8	OBL	Native	herb	0	0	0	<i>Rumex britannica</i>
SAGLAT		<i>Sagittaria latifolia</i>	broad-leaved arrowhead	3	OBL	Native	aquatic	perennial	0	0	<i>Sagittaria latifolia</i>
SALBAB		<i>Salix alba</i> f. cv. 'Vitellina'	weeping willow	0	FACW	Excluded	tree	0	0	0	<i>Salix alba</i> L. f. cv. <i>Vitellina</i>
SALINT		<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG		<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SAMCAN		<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra</i> ssp. <i>canadensis</i>
SANGCAN		<i>Sanguinaria canadensis</i>	bloodroot	6	FACU	Native	herb	perennial	0	0	<i>Sanguinaria canadensis</i>
SANODO		<i>Sanicula odorata</i>	clustered black snakeroot	3	FAC	Native	herb	perennial	0	0	<i>Sanicula odorata</i>
SCIATR		<i>Scirpus atrovirens</i>	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	<i>Scirpus atrovirens</i>
SCRMAR		<i>Scrophularia marilandica</i>	carpenter's-square, eastern figwort, lat	4	FACU	Native	herb	perennial	0	0	<i>Scrophularia marilandica</i>
SMIHER		<i>Smilax herbacea</i>	common carrion-flower	5	0	Native	herb	annual	0	0	<i>Smilax herbacea</i>
SOLCAN		<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SOLDUL		<i>Solanum dulcamara</i>	bittersweet nightshade	0	FAC	Introduced	herb	perennial	0	0	<i>Solanum dulcamara</i>
SOLGIG		<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>
SOLULM		<i>Solidago ulmifolia</i>	elm-leaved goldenrod	5	0	Native	herb	0	0	0	<i>Solidago ulmifolia</i>
SONASP		<i>Sonchus asper</i>	prickly sow-thistle, spiny sow-thistle	0	FACU	Introduced	herb	annual	0	0	<i>Sonchus asper</i>
SYM FIR		<i>Symphyotrichum firmum</i>	glossy-leaved aster	6	OBL	Native	herb	perennial	0	0	<i>Symphyotrichum firmum</i>
SYMLAN		<i>Symphyotrichum lanceolatum</i>	panicled aster	4	FAC/FACW	Native	herb	perennial	0	0	<i>Symphyotrichum lanceolatum</i>
SYMLAT		<i>Symphyotrichum lateriflorum</i>	side-flowering aster	3	FACW/FAC	Native	herb	perennial	0	0	<i>Symphyotrichum lateriflorum</i>
TAROFF		<i>Taraxacum officinale</i>	common dandelion	0	FACU	Introduced	herb	perennial	0	0	<i>Taraxacum officinale</i>
THUOCC		<i>Thuja occidentalis</i>	eastern arborvitae, northern white-cedc	9	FACW	Native	tree	perennial	0	0	<i>Thuja occidentalis</i>
TILAME		<i>Tilia americana</i>	American linden, basswood	5	FACU	Native	tree	perennial	0	0	<i>Tilia americana</i>
TORJAP		<i>Torilis japonica</i>	erect hedge-parsley, Japanese hedge-pc	0	0	Introduced	herb	annual	0	Prohibited/Restricted	<i>Torilis japonica</i>
TOXRAD		<i>Toxicodendron radicans</i>	common eastern poison-ivy	4	FAC	Native	herb	perennial	0	0	<i>Toxicodendron radicans</i>
TYPANG		<i>Typha angustifolia</i>	narrow-leaved cat-tail	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Typha angustifolia</i>
ULMAME		<i>Ulmus americana</i>	American elm, white elm	3	FACW	Native	tree	perennial	0	0	<i>Ulmus americana</i>
VERFAS		<i>Vernonia fasciculata</i>	common ironweed, prairie ironweed, sn	5	FACW	Native	herb	0	0	0	<i>Vernonia fasciculata</i>
VERHAS		<i>Verbena hastata</i>	blue vervain, simpler's-joy, swamp verb	3	FACW	Native	herb	biennial/per	0	0	<i>Verbena hastata</i>
VERURT		<i>Verbena urticifolia</i>	nettle-leaved vervain, white vervain	2	FAC	Native	herb	perennial	0	0	<i>Verbena urticifolia</i>
VIBLEN		<i>Viburnum lentago</i>	nannyberry, sheepberry	4	FAC	Native	shrub	perennial	0	0	<i>Viburnum lentago</i>
VIBOPU		<i>Viburnum opulus</i>	cranberry viburnum, European cranberr	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	<i>Viburnum opulus</i>
VIOSOR		<i>Viola sororia</i>	door-yard violet, common blue violet, h	3	FAC	Native	herb	annual/per	0	0	<i>Viola sororia</i>
VITAES		<i>Vitis aestivalis</i>	pigeon grape, summer grape	5	FACU	Native	tree	perennial	0	0	<i>Vitis aestivalis</i>
VITRIP		<i>Vitis riparia</i>	frost grape, river bank grape	2	FACW/FAC	Native	herb	perennial	0	0	<i>Vitis riparia</i>



SITE NAME:	Marshwoods Conservancy Summer 2022		PLANT COMMUNITY:	Oak Woodland
ASSESSMENT AREA NAME:	MMU-1 Oak Woodland		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	7/20/2022
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

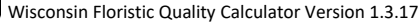
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
63	52	11	18%	9%	24.5	31.9	3.4	4.4	22.3	32.7	2.8	4.1	5.0	1.7	2.9	0.0
													136%	22%	52%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGRY	2	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ANEVIR	1	<i>Anemone virginiana</i>	tall anemone, tall thimbleweed	5	FACU	Native	herb	perennial	0	0	<i>Anemone virginiana</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
ATHFIL	1	<i>Athyrium filix-femina</i>	common lady fern, lady fern	5	FAC	Native	herb	perennial	0	0	<i>Athyrium filix-femina</i>
BETPAP	1	<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
CALCAN	1	<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARCEPHAL OP	1	<i>Carex cephalophora</i>	oval-headed sedge, short-headed bract	4	FACU	Native	herb	perennial	0	0	<i>Carex cephalophora</i>
CARROSE	2	<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CAROVAT	75	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CELOCC	2	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRCAN	3	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CORRAC	2	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
DACGLO	1	<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ELYVIR	1	<i>Elymus virginicus</i>	common eastern wild-rye, Virginia wild-	6	FACW	Native	herb	perennial	0	0	<i>Elymus virginicus</i>
ERISTR	1	<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
EUTMAC	1	<i>Eutrochium maculatum</i>	spotted Joe-Pye-weed	4	OBL	Native	herb	perennial	0	0	<i>Eutrochium maculatum</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GERMAC	1	<i>Geranium maculatum</i>	Crane's-bill, spotted geranium, wild ger	4	FACU	Native	herb	perennial	0	0	<i>Geranium maculatum</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
JUNDUD	1	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LEEVIR	1	<i>Leersia virginica</i>	white grass	5	FACW	Native	herb	perennial	0	0	<i>Leersia virginica</i>
LONTAT	3	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MAIRAC	1	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI	10	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PERVIR	2	<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/peren	0	0	<i>Persicaria virginiana</i>
PHAARU	1	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHYAME	1	<i>Phytolacca americana</i>	American pokeberry, pokeweed	1	FACU	Native	herb	perennial	0	0	<i>Phytolacca americana</i>
PILPUM	1	<i>Pilea pumila</i>	Canadian clearweed	3	FACW	Native	herb	annual	0	0	<i>Pilea pumila</i>
PODPEL	2	<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POPTRE	1	<i>Populus tremuloides</i>	aspen, quaking aspen	2	FAC/FAC*	Native	tree	perennial	0	0	<i>Populus tremuloides</i>
POTSIM	1	<i>Potentilla simplex</i>	common cinquefoil, old-field five-finger	2	FACU	Native	herb	perennial	0	0	<i>Potentilla simplex</i>
PRUSER	4	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PRUVIR	3	<i>Prunus virginiana</i>	chokecherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus virginiana</i>
QUEALB	15	<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEMAC	21	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB	1	<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RHACAT	5	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBMIS	1	<i>Ribes missouriense</i>	Missouri gooseberry	4	0	Native	shrub	perennial	0	0	<i>Ribes missouriense</i>
ROBPSE	1	<i>Robinia pseudoacacia</i>	black locust	0	FACU	Introduced	tree	perennial	0	Restricted	<i>Robinia pseudoacacia</i>
ROSMUL	1	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL	5	<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC	2	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SOLCAN	1	<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SOLGIG	1	<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>

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SITE NAME:	Marshwoods Conservancy Summer 2022		PLANT COMMUNITY:	Surrogate Grassland & Mesic Prairie	
ASSESSMENT AREA NAME:	MMU-2 Surrogate Grassland & Mesic Prairie		SURVEYORS:	John Larson	
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/20/2022	
	Longitude:				
COUNTY:	Dane		SITE NOTES:		
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains				

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
71	53	18	93%	51%	26.5	21.2	3.6	2.9	22.9	12.1	2.7	1.4	3.6	1.9	1.2	0.0
													12%	25%	147%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACEGIN	1	<i>Acer ginnala</i>	Amur maple	0	0	Introduced	tree	perennial	0	Restricted	<i>Acer ginnala</i>
ACHMIL	2	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG	5	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
AMBTRI	1	<i>Ambrosia trifida</i>	giant ragweed, great ragweed, horse-cc	0	FAC	Native	herb	annual	0	0	<i>Ambrosia trifida</i>
ANAMAR	1	<i>Anaphalis margaritacea</i>	pearly everlasting, western pearly everl	3	FACU	Native	herb	perennial	0	0	<i>Anaphalis margaritacea</i>
ANDGER	1	<i>Andropogon gerardii</i>	big blue-stem, turkey-foot	4	FAC/FACU	Native	herb	perennial	0	0	<i>Andropogon gerardii</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
BETPAP	1	<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
BROINE	20	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CAMAME	1	<i>Campanulastrum americanum</i>	American bellflower, tall bellflower	4	FAC	Native	herb	0	0	0	<i>Campanula americana</i>
CARPEL	1	<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARSCO	1	<i>Carex scoparia</i>	broom sedge, lance-fruited oval sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex scoparia</i>
CAROVAT	1	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CIRDIS	1	<i>Cirsium discolor</i>	field thistle, pasture thistle, prairie thist	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	<i>Cirsium discolor</i>
CORAMO	5	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORRAC	10	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
DALCAN	1	<i>Dalea candida</i>	slender white prairie-clover	8	0	Native	herb	perennial	0	0	<i>Dalea candida</i>
DALPUR	1	<i>Dalea purpurea</i>	purple prairie-clover	7	0	Native	herb	perennial	0	0	<i>Dalea purpurea</i>
DAUCAR	20	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ECHPUR	1	<i>Echinacea purpurea</i>	broad-leaved purple coneflower, eastern	0	0	Introduced	herb	perennial	0	0	<i>Echinacea purpurea</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ERISTR	1	<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
ERYYUC	1	<i>Eryngium yuccifolium</i>	button eryngo, rattlesnake-master	8	FAC	Native	herb	perennial	0	0	<i>Eryngium yuccifolium</i>
HELAUT	1	<i>Helenium autumnale</i>	common sneezeweed	4	FACW	Native	herb	perennial	0	0	<i>Helenium autumnale</i>
JUGNIG	1	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNDUD	1	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LACCAN	1	<i>Lactuca canadensis</i>	Canada lettuce, tall lettuce, tall wild lett	2	FACU	Native	herb	annual/bienr	0	0	<i>Lactuca canadensis</i>
LEUVUL	1	<i>Leucanthemum vulgare</i>	common daisy, field daisy, marguerite, c	0	UPL	Introduced	herb	perennial	0	0	<i>Leucanthemum vulgare</i>
LIAPYC	1	<i>Liatris pycnostachya</i>	prairie blazing-star, thick-spike blazing-:	7	FAC	Native	herb	perennial	0	0	<i>Liatris pycnostachya</i>
LOBSIP	1	<i>Lobelia siphilitica</i>	great blue lobelia	5	OBL/FACW	Native	herb	perennial	0	0	<i>Lobelia siphilitica</i>
LONTAT	5	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MELALB	1	<i>Melilotus albus</i>	white sweet-clover	0	0	Introduced	herb	annual/bienr	0	Non-Restricted	<i>Melilotus albus</i>
MONFIS	2	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB	1	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
OENBIE	1	<i>Oenothera biennis</i>	bastard evening-primrose, common eve	1	FACU	Native	herb	biennial/per	0	0	<i>Oenothera biennis</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PANVIR	1	<i>Panicum virgatum</i>	switch grass	4	FAC	Native	herb	perennial	0	0	<i>Panicum virgatum</i>
PHAARU	1	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHLPRA	1	<i>Phleum pratense</i>	timothy	0	FACU	Introduced	herb	perennial	0	0	<i>Phleum pratense</i>
PHYSOVIR	1	<i>Physostegia virginiana</i>	false dragonhead, obedience	7	FACW	Native	herb	0	0	0	<i>Physostegia virginiana</i>
POAPRA	20	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
POTNOR	1	<i>Potentilla norvegica</i>	Norwegian cinquefoil, rough cinquefoil,	0	FAC	Native	herb	annual/per	0	0	<i>Potentilla norvegica</i>
PRUSER	1	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PYCVIR	1	<i>Pycnanthemum virginianum</i>	common mountain mint, Virginia moun	6	FACW	Native	herb	perennial	0	0	<i>Pycnanthemum virginianum</i>
QUEALB	1	<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEMAC	2	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
RATPIN	1	<i>Ratibida pinnata</i>	globular coneflower, yellow coneflower	4	0	Native	herb	perennial	0	0	<i>Ratibida pinnata</i>
RHACAT	1	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RUBIDA	1	<i>Rubus idaeus</i>	wild red raspberry	3	FACU/FAC*	Native	shrub	perennial	0	0	<i>Rubus idaeus</i>
RUBOCC	1	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
RUDHIR	1	<i>Rudbeckia hirta</i>	black-eyed Susan	4	FACU	Native	herb	0	0	0	<i>Rudbeckia hirta</i>
RUMCRI	1	<i>Rumex crispus</i>	curly dock, sour dock	0	FAC	Introduced	herb	perennial	0	0	<i>Rumex crispus</i>
SALINT	1	<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>

[illegible]



SITE NAME:	Marshwoods Conservancy Summer 2022		PLANT COMMUNITY:	Emergent Marsh, Wet Meadow, S. Sedge Meadow, Shrub-carr, S. Hardwood Swamp
ASSESSMENT AREA NAME:	MMU-3 Wetlands		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/20/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

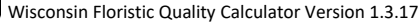
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
77	58	19	67%	30%	24.0	26.0	3.2	3.4	20.9	22.1	2.4	2.5	2.6	2.6	2.5	0.0
													41%	34%	145%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	4	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
ANECAN	1	<i>Anemone canadensis</i>	Canada anemone, Canadian anemone, 1	4	FACW	Native	herb	perennial	0	0	<i>Anemone canadensis</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ASCINC	2	<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
CALCAN	5	<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CALSEP	1	<i>Calystegia sepium</i>	hedge bindweed, hedge false bindweed	2	FAC	Native	herb	perennial	0	0	<i>Calystegia sepium</i>
CARLAC	1	<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>
CARPEL	3	<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARSTR	12	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CIRCAN	2	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRDIS	1	<i>Cirsium discolor</i>	field thistle, pasture thistle, prairie thist	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	<i>Cirsium discolor</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CORAMO	5	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORRAC	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ECHLOB	2	<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
EQUARV	1	<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
EUPPER	1	<i>Eupatorium perfoliatum</i>	boneset, common boneset, thoroughwo	6	OBL/FACW	Native	herb	perennial	0	0	<i>Eupatorium perfoliatum</i>
EUTMAC	5	<i>Eutrochium maculatum</i>	spotted Joe-Pye-weed	4	OBL	Native	herb	perennial	0	0	<i>Eutrochium maculatum</i>
FRAVIR	1	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUALE	1	<i>Geum aleppicum</i>	yellow avens	3	FACW/FAC	Native	herb	perennial	0	0	<i>Geum aleppicum</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
IMPCAP	3	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	1	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNDUD	1	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LATPAL	1	<i>Lathyrus palustris</i>	marsh pea, marsh vetchling, slender-ste	5	FACW	Native	herb	perennial	0	0	<i>Lathyrus palustris</i>
LONTAT	2	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYCAME	1	<i>Lycopus americanus</i>	American water-horehound, common w	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
LYTSAL	1	<i>Lythrum salicaria</i>	purple loosestrife, spiked loosestrife	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Lythrum salicaria</i>
MELOFF	1	<i>Melilotus officinalis</i>	yellow sweet-clover	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	<i>Melilotus officinalis</i>
MENARVVCA N	1	<i>Mentha canadensis</i>	field mint, wild mint	3	FACW	Native	herb	perennial	0	0	<i>Mentha arvensis</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB	1	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
PARQUI	2	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PERAMP	1	<i>Persicaria amphibia</i>	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	<i>Persicaria amphibia</i>
PERMAC	1	<i>Persicaria maculosa</i>	heart's-ease, spotted lady's-thumb	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Persicaria maculosa</i>
PHAARU	15	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHRAUSsAU S	1	<i>Phragmites australis ssp. australis</i>	common reed, common reed grass	0	0	Introduced	herb	perennial	0	Prohibited/Restrict ed	<i>Phragmites australis</i>
PILPUM	1	<i>Pilea pumila</i>	Canadian clearweed	3	FACW	Native	herb	annual	0	0	<i>Pilea pumila</i>
POAPRA	1	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
POPDEL	8	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
PYCVIR	4	<i>Pycnanthemum virginianum</i>	common mountain mint, Virginia mouni	6	FACW	Native	herb	perennial	0	0	<i>Pycnanthemum virginianum</i>
RHACAT	4	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>

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SITE NAME:	Marshwoods Conservancy Summer 2022		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons and John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	7/20/2022
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
143	110	33			37.6		3.6		32.9		2.8					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACEGIN		<i>Acer ginnala</i>	Amur maple	0	0	Introduced	tree	perennial	0	Restricted	<i>Acer ginnala</i>
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACHMIL		<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGEALT		<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGIG		<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
AMBTRI		<i>Ambrosia trifida</i>	giant ragweed, great ragweed, horse-c	0	FAC	Native	herb	annual	0	0	<i>Ambrosia trifida</i>
ANAMAR		<i>Anaphalis margaritacea</i>	pearly everlasting, western pearly everl	3	FACU	Native	herb	perennial	0	0	<i>Anaphalis margaritacea</i>
ANDGER		<i>Andropogon gerardii</i>	big blue-stem, turkey-foot	4	FAC/FACU	Native	herb	perennial	0	0	<i>Andropogon gerardii</i>
ANECAN		<i>Anemone canadensis</i>	Canada anemone, Canadian anemone, i	4	FACW	Native	herb	perennial	0	0	<i>Anemone canadensis</i>
ANEVIR		<i>Anemone virginiana</i>	tall anemone, tall thimbleweed	5	FACU	Native	herb	perennial	0	0	<i>Anemone virginiana</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ASCINC		<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
ASCSYR		<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
ATHFIL		<i>Athyrium filix-femina</i>	common lady fern, lady fern	5	FAC	Native	herb	perennial	0	0	<i>Athyrium filix-femina</i>
BETPAP		<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
BROINE		<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CALCAN		<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CALSEP		<i>Calystegia sepium</i>	hedge bindweed, hedge false bindweed	2	FAC	Native	herb	perennial	0	0	<i>Calystegia sepium</i>
CAMAME		<i>Campanulastrum americanum</i>	American bellflower, tall bellflower	4	FAC	Native	herb	0	0	0	<i>Campanula americana</i>
CARCEPHALOP		<i>Carex cephalophora</i>	oval-headed sedge, short-headed bract	4	FACU	Native	herb	perennial	0	0	<i>Carex cephalophora</i>
CARLAC		<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEL		<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARROSE		<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CARSCO		<i>Carex scoparia</i>	broom sedge, lance-fruited oval sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex scoparia</i>
CARSTR		<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CIRARV		<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRCAN		<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRDIS		<i>Cirsium discolor</i>	field thistle, pasture thistle, prairie thist	4	FACU/UPL	Native	herb	(biennial?)/p	0	0	<i>Cirsium discolor</i>
CIRVUL		<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CORAMO		<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORRAC		<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DACGLO		<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DALCAN		<i>Dalea candida</i>	slender white prairie-clover	8	0	Native	herb	perennial	0	0	<i>Dalea candida</i>
DALPUR		<i>Dalea purpurea</i>	purple prairie-clover	7	0	Native	herb	perennial	0	0	<i>Dalea purpurea</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ECHLOB		<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ECHPUR		<i>Echinacea purpurea</i>	broad-leaved purple coneflower, eastern	0	0	Introduced	herb	perennial	0	0	<i>Echinacea purpurea</i>
ELAUMB		<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ELYVIR		<i>Elymus virginicus</i>	common eastern wild-rye, Virginia wild-	6	FACW	Native	herb	perennial	0	0	<i>Elymus virginicus</i>
EQUARV		<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
ERISTR		<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
ERYYUC		<i>Eryngium yuccifolium</i>	button eryngo, rattlesnake-master	8	FAC	Native	herb	perennial	0	0	<i>Eryngium yuccifolium</i>
EUPPER		<i>Eupatorium perfoliatum</i>	boneset, common boneset, thoroughwo	6	OBL/FACW	Native	herb	perennial	0	0	<i>Eupatorium perfoliatum</i>
EUTMAC		<i>Eutrochium maculatum</i>	spotted Joe-Pye-weed	4	OBL	Native	herb	perennial	0	0	<i>Eutrochium maculatum</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR		<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GALAPA		<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GERMAC		<i>Geranium maculatum</i>	Crane's-bill, spotted geranium, wild ger	4	FACU	Native	herb	perennial	0	0	<i>Geranium maculatum</i>
GEUALE		<i>Geum aleppicum</i>	yellow avens	3	FACW/FAC	Native	herb	perennial	0	0	<i>Geum aleppicum</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
HACVIR		<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HELAUT		<i>Helenium autumnale</i>	common sneezeweed	4	FACW	Native	herb	perennial	0	0	<i>Helenium autumnale</i>
IMPCAP		<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-not	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNDUD		<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LACCAN		<i>Lactuca canadensis</i>	Canada lettuce, tall lettuce, tall wild lettuce	2	FACU	Native	herb	annual/biennial	0	0	<i>Lactuca canadensis</i>
LATPAL		<i>Lathyrus palustris</i>	marsh pea, marsh vetchling, slender-stemmed marsh pea	5	FACW	Native	herb	perennial	0	0	<i>Lathyrus palustris</i>
LEEVIR		<i>Leersia virginica</i>	white grass	5	FACW	Native	herb	perennial	0	0	<i>Leersia virginica</i>
LEUVUL		<i>Leucanthemum vulgare</i>	common daisy, field daisy, marguerite, oxeye	0	UPL	Introduced	herb	perennial	0	0	<i>Leucanthemum vulgare</i>
LIAPYC		<i>Liatris pycnostachya</i>	prairie blazing-star, thick-spike blazing-star	7	FAC	Native	herb	perennial	0	0	<i>Liatris pycnostachya</i>
LOBSIP		<i>Lobelia siphilitica</i>	great blue lobelia	5	OBL/FACW	Native	herb	perennial	0	0	<i>Lobelia siphilitica</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYCAME		<i>Lycopus americanus</i>	American water-horehound, common water horehound	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
LYTSAL		<i>Lythrum salicaria</i>	purple loosestrife, spiked loosestrife	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Lythrum salicaria</i>
MAIRAC		<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, lady's-orchis	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MELALB		<i>Melilotus albus</i>	white sweet-clover	0	0	Introduced	herb	annual/biennial	0	Non-Restricted	<i>Melilotus albus</i>
MELOFF		<i>Melilotus officinalis</i>	yellow sweet-clover	0	FACU	Introduced	herb	annual/biennial	0	Non-Restricted	<i>Melilotus officinalis</i>
MENARVCCA N		<i>Mentha canadensis</i>	field mint, wild mint	3	FACW	Native	herb	perennial	0	0	<i>Mentha arvensis</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB		<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
OENBIE		<i>Oenothera biennis</i>	bastard evening-primrose, common evening primrose	1	FACU	Native	herb	biennial/perennial	0	0	<i>Oenothera biennis</i>
OXASTR		<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PANVIR		<i>Panicum virgatum</i>	switch grass	4	FAC	Native	herb	perennial	0	0	<i>Panicum virgatum</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PERAMP		<i>Persicaria amphibia</i>	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	<i>Persicaria amphibia</i>
PERMAC		<i>Persicaria maculosa</i>	heart's-ease, spotted lady's-thumb	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Persicaria maculosa</i>
PERVIR		<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/perennial	0	0	<i>Persicaria virginiana</i>
PHAARU		<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHLPRA		<i>Phleum pratense</i>	timothy	0	FACU	Introduced	herb	perennial	0	0	<i>Phleum pratense</i>
PHRAUSSAU S		<i>Phragmites australis</i> ssp. <i>australis</i>	common reed, common reed grass	0	0	Introduced	herb	perennial	0	Prohibited/Restricted	<i>Phragmites australis</i>
PHYAME		<i>Phytolacca americana</i>	American pokeberry, pokeweed	1	FACU	Native	herb	perennial	0	0	<i>Phytolacca americana</i>
PHYSOVIR		<i>Physostegia virginiana</i>	false dragonhead, obedience	7	FACW	Native	herb	0	0	0	<i>Physostegia virginiana</i>
PILPUM		<i>Pilea pumila</i>	Canadian clearweed	3	FACW	Native	herb	annual	0	0	<i>Pilea pumila</i>
POAPRA		<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PODPEL		<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POPTRE		<i>Populus tremuloides</i>	aspen, quaking aspen	2	FAC/FAC*	Native	tree	perennial	0	0	<i>Populus tremuloides</i>
POTNOR		<i>Potentilla norvegica</i>	Norwegian cinquefoil, rough cinquefoil,	0	FAC	Native	herb	annual/perennial	0	0	<i>Potentilla norvegica</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POTSIM		<i>Potentilla simplex</i>	common cinquefoil, old-field five-finger	2	FACU	Native	herb	perennial	0	0	<i>Potentilla simplex</i>
PRUSER		<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PRUVIR		<i>Prunus virginiana</i>	chokecherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus virginiana</i>
PYCVIR		<i>Pycnanthemum virginianum</i>	common mountain mint, Virginia mountain mint	6	FACW	Native	herb	perennial	0	0	<i>Pycnanthemum virginianum</i>
QUEALB		<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEMAC		<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB		<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RATPIN		<i>Ratibida pinnata</i>	globular coneflower, yellow coneflower	4	0	Native	herb	perennial	0	0	<i>Ratibida pinnata</i>
RHACAT		<i>Rhamnus cathartica</i>	common buckthorn, European buckthorn	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBMIS		<i>Ribes missouriense</i>	Missouri gooseberry	4	0	Native	shrub	perennial	0	0	<i>Ribes missouriense</i>
ROBPSE		<i>Robinia pseudoacacia</i>	black locust	0	FACU	Introduced	tree	perennial	0	Restricted	<i>Robinia pseudoacacia</i>
ROSMUL		<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL		<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBIDA		<i>Rubus idaeus</i>	wild red raspberry	3	FACU/FAC*	Native	shrub	perennial	0	0	<i>Rubus idaeus</i>
RUBOCC		<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
RUDHIR		<i>Rudbeckia hirta</i>	black-eyed Susan	4	FACU	Native	herb	0	0	0	<i>Rudbeckia hirta</i>
RUMCRI		<i>Rumex crispus</i>	curly dock, sour dock	0	FAC	Introduced	herb	perennial	0	0	<i>Rumex crispus</i>
SALBAB		<i>Salix alba</i> f. cv. 'Vitellina'	weeping willow	0	FACW	Excluded	tree	0	0	0	<i>Salix alba</i> L. f. cv. <i>Vitellina</i>
SALDIS		<i>Salix discolor</i>	pussy willow	2	FACW	Native	tree	perennial	0	0	<i>Salix discolor</i>
SALINT		<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG		<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SAMCAN		<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra</i> ssp. <i>canadensis</i>
SCIATR		<i>Scirpus atrovirens</i>	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	<i>Scirpus atrovirens</i>
SILCHA		<i>Silene chalcedonica</i>	Maltese cross, scarlet lychnis	0	0	Introduced	herb	0	0	0	<i>Silene chalcedonica</i>
SILPER		<i>Silphium perfoliatum</i>	cup-plant	4	FACW	Native	herb	0	0	0	<i>Silphium perfoliatum</i>
SMIHER		<i>Smilax herbacea</i>	common carrion-flower	5	0	Native	herb	annual	0	0	<i>Smilax herbacea</i>
SOLCAN		<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SOLGIG		<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>
SONASP		<i>Sonchus asper</i>	prickly sow-thistle, spiny sow-thistle	0	FACU	Introduced	herb	annual	0	0	<i>Sonchus asper</i>
SORNUT		<i>Sorghastrum nutans</i>	yellow Indian grass	5	FACU	Native	herb	perennial	0	0	<i>Sorghastrum nutans</i>
STAPAL		<i>Stachys palustris</i>	hedge-nettle, marsh hedge-nettle, woundwort	5	OBL	Native	herb	perennial	0	0	<i>Stachys palustris</i>
STATEN		<i>Stachys tenuifolia</i>	narrow-leaved hedge-nettle, smooth hedge-nettle	6	OBL/FACW	Native	herb	perennial	0	0	<i>Stachys tenuifolia</i>
SYMFIR		<i>Symphiotrichum firmum</i>	glossy-leaved aster	6	OBL	Native	herb	perennial	0	0	<i>Symphiotrichum firmum</i>
SYMLAN		<i>Symphiotrichum lanceolatum</i>	panicked aster	4	FAC/FACW	Native	herb	perennial	0	0	<i>Symphiotrichum lanceolatum</i>
SYMLAT		<i>Symphiotrichum lateriflorum</i>	side-flowering aster	3	FACW/FAC	Native	herb	perennial	0	0	<i>Symphiotrichum lateriflorum</i>
SYMNOV		<i>Symphiotrichum novae-angliae</i>	New England aster	3	FACW	Native	herb	perennial	0	0	<i>Symphiotrichum novae-angliae</i>
SYMPIL		<i>Symphiotrichum pilosum</i>	frost aster	1	FACU	Native	herb	perennial	0	0	<i>Symphiotrichum pilosum</i>

[illegible]



SITE NAME:	Siggelkow Road Park Summer 2022		PLANT COMMUNITY:	Southern Dry-mesic Forest
ASSESSMENT AREA NAME:	SMU-1 Southern Dry-mesic Forest		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/19/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

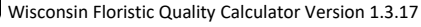
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
59	39	20	35%	17%	20.8	27.3	3.3	4.4	16.9	27.9	2.2	3.6	4.8	0.7	2.7	0.0
													111%	22%	71%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
ANEQUI	1	<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ARCLAP	1	<i>Arctium lappa</i>	great burdock	0	0	Introduced	herb	biennial	0	0	<i>Arctium lappa</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ARITRI	2	<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
CARBLA	1	<i>Carex blanda</i>	common wood sedge, eastern woodlan	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARROSE	1	<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CARCOR	1	<i>Carya cordiformis</i>	bitter-nut hickory, pig-nut, yellow-bud h	6	FACU/FAC	Native	tree	perennial	0	0	<i>Carya cordiformis</i>
CAROVAT	8	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CELOCC	26	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CIRCAN	4	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CONCAN	1	<i>Conyza canadensis</i>	Canadian horseweed, fleabane, hogwee	0	FACU	Native	herb	0	0	0	<i>Conyza canadensis</i>
GRAMOL	1	<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
DACGLO	1	<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
DUCIND	1	<i>Duchesnea indica</i>	false strawberry, Indian strawberry	0	FACU	Introduced	herb	perennial	0	0	<i>Duchesnea indica</i>
EREHIE	1	<i>Erechtites hieraciifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieraciifolius</i>
EUTPUR	1	<i>Eutrochium purpureum</i>	green-stemmed Joe-Pye-weed, purple Jc	6	FAC	Native	herb	perennial	0	0	<i>Eutrochium purpureum</i>
FRAAME	1	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN	3	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	2	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GERMAC	10	<i>Geranium maculatum</i>	Crane's-bill, spotted geranium, wild ger	4	FACU	Native	herb	perennial	0	0	<i>Geranium maculatum</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, g	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HACVIR	2	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HEMFUL	1	<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
LIGVUL	1	<i>Ligustrum vulgare</i>	common privet, European privet	0	FACU	Introduced	shrub	perennial	0	Caution	<i>Ligustrum vulgare</i>
LONRET	2	<i>Lonicera reticulata</i>	grape honeysuckle, yellow honeysuckle	6	0	Native	shrub	perennial	0	0	<i>Lonicera reticulata</i>
LONTAT	5	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MAIRAC	5	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MORALB	1	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
NEPCAT	1	<i>Nepeta cataria</i>	catnip	0	FACU	Introduced	herb	perennial	0	0	<i>Nepeta cataria</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI	11	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PHAARU	1	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PODPEL	15	<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
PRUSER	15	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
QUEALB	30	<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEMAC	5	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
RHACAT	12	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA	1	<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RUBOCC	1	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SILLAT	1	<i>Silene latifolia</i>	bladder campion, white campion, white	0	0	Introduced	herb	0	0	0	<i>Silene latifolia</i>
SOLDUL	1	<i>Solanum dulcamara</i>	bittersweet nightshade	0	FAC	Introduced	herb	perennial	0	0	<i>Solanum dulcamara</i>
SOLCAN	1	<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SONOLE	1	<i>Sonchus oleraceus</i>	common sow-thistle, field sow-thistle	0	FACU	Introduced	herb	annual	0	0	<i>Sonchus oleraceus</i>
SYMPIL	1	<i>Symphyotrichum pilosum</i>	frost aster	1	FACU	Native	herb	perennial	0	0	<i>Symphyotrichum pilosum</i>
TAROFF	1	<i>Taraxacum officinale</i>	common dandelion	0	FACU	Introduced	herb	perennial	0	0	<i>Taraxacum officinale</i>
TILAME	5	<i>Tilia americana</i>	American linden, basswood	5	FACU	Native	tree	perennial	0	0	<i>Tilia americana</i>
TORJAP	1	<i>Torilis japonica</i>	erect hedge-parsley, Japanese hedge-pc	0	0	Introduced	herb	annual	0	Prohibited/Restricted	<i>Torilis japonica</i>
TOXRAD	1	<i>Toxicodendron radicans</i>	common eastern poison-ivy	4	FAC	Native	herb	perennial	0	0	<i>Toxicodendron radicans</i>
TRIREP	1	<i>Trifolium repens</i>	white clover	0	FACU	Introduced	herb	perennial	0	0	<i>Trifolium repens</i>

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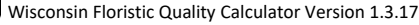


SITE NAME:	Taylor Road Conservancy Summer 2022		PLANT COMMUNITY:	Conifer Plantation
ASSESSMENT AREA NAME:	TMU-1 Conifer Plantation		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/19/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
33	22	11	59%	31%	15.6	24.9	3.3	5.3	12.7	22.8	2.2	4.0	5.4	1.3	1.5	0.0
													123%	44%	25%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BROINE	1	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CARBLA	1	<i>Carex blanda</i>	common wood sedge, eastern woodland	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CAROVAT	7	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEN	2	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CELOCC	1	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CIRCAN	4	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CONMAJ	2	<i>Convallaria majalis</i>	European lily-of-the-valley, lily-of-the-vc	0	0	Introduced	herb	0	0	Non-Restricted	<i>Convallaria majalis</i>
EREHIE	1	<i>Erechtites hieraciifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieraciifolius</i>
FRAAME	2	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN	8	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
HYPPER	1	<i>Hypericum perforatum</i>	common St. John's-wort, Klamath-weed	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Hypericum perforatum</i>

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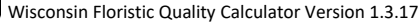


SITE NAME:	Taylor Road Conservancy Summer 2022		PLANT COMMUNITY:	Invaded Surrogate Grassland
ASSESSMENT AREA NAME:	TMU-2 (A/B) Invaded Surrogate Grassland		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/19/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
39	20	19	83%	41%	8.9	10.5	2.0	2.4	6.4	8.6	1.0	1.4	2.9	1.7	0.4	0.0
													62%	28%	111%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
AGEALT	1	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AMBART	1	<i>Ambrosia artemisiifolia</i>	annual bur-sage, common ragweed, shc	0	FACU	Native	herb	annual	0	0	<i>Ambrosia artemisiifolia</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
BROINE	10	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
BROJAP	15	<i>Bromus arvensis</i>	Japanese chess	0	FACU	Introduced	herb	0	0	0	<i>Bromus arvensis</i>
CENSTO	15	<i>Centaurea stoebe</i>	Spotted knapweed	0	0	Introduced	herb	biennial/per	0	Restricted	<i>Centaurea stoebe</i>
CIRVUL	2	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CONCAN	2	<i>Conyza canadensis</i>	Canadian horseweed, fleabane, hogwee	0	FACU	Native	herb	0	0	0	<i>Conyza canadensis</i>
DACGLO	1	<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DAUCAR	5	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
EUPVIR	1	<i>Euphorbia virgata</i>	leafy spurge, wolf's-milk	0	0	Introduced	herb	0	0	0	<i>Euphorbia esula</i>
FRAAME	1	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
JUGNIG	55	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LOLARU	5	<i>Lolium arundinaceum</i>	reed fescue, rye grass, tall fescue	0	FACU	Introduced	herb	0	0	0	<i>Schedonorus arundinaceus</i>

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SITE NAME:	Taylor Road Conservancy Summer 2022		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	7/19/2022
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

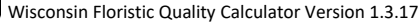
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
60	36	24			17.0		2.8		13.2		1.7					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGEALT		<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
AMBART		<i>Ambrosia artemisiifolia</i>	annual bur-sage, common ragweed, shc	0	FACU	Native	herb	annual	0	0	<i>Ambrosia artemisiifolia</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ASCSYR		<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
BROINE		<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
BROJAP		<i>Bromus arvensis</i>	Japanese chess	0	FACU	Introduced	herb	0	0	0	<i>Bromus arvensis</i>
CARBLA		<i>Carex blanda</i>	common wood sedge, eastern woodlan	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEN		<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CENSTO		<i>Centaurea stoebe</i>	Spotted knapweed	0	0	Introduced	herb	biennial/per	0	Restricted	<i>Centaurea stoebe</i>
CIRCAN		<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRVUL		<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CONCAN		<i>Conyza canadensis</i>	Canadian horseweed, fleabane, hogwee	0	FACU	Native	herb	0	0	0	<i>Conyza canadensis</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CONMAJ		<i>Convallaria majalis</i>	European lily-of-the-valley, lily-of-the-vc	0	0	Introduced	herb	0	0	Non-Restricted	<i>Convallaria majalis</i>
DACGLO		<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
EREHIE		<i>Erechtites hieraciifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieraciifolius</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
EUPVIR		<i>Euphorbia virgata</i>	leafy spurge, wolf's-milk	0	0	Introduced	herb	0	0	0	<i>Euphorbia esula</i>
FRAAME		<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA		<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
HYPPER		<i>Hypericum perforatum</i>	common St. John's-wort, Klamath-weed	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Hypericum perforatum</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR		<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LOLARU		<i>Lolium arundinaceum</i>	reed fescue, rye grass, tall fescue	0	FACU	Introduced	herb	0	0	0	<i>Schedonorus arundinaceus</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MELOFF		<i>Mellilotus officinalis</i>	yellow sweet-clover	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	<i>Mellilotus officinalis</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB		<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
OXASTR		<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PHAARU		<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHLPRA		<i>Phleum pratense</i>	timothy	0	FACU	Introduced	herb	perennial	0	0	<i>Phleum pratense</i>
PINRES		<i>Pinus resinosa</i>	Canadian pine, Norway pine, red pine	7	FACU	Native	tree	perennial	0	0	<i>Pinus resinosa</i>
PLAMAJ		<i>Plantago major</i>	broad-leaved plantain, common plantain	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Plantago major</i>
POAPRA		<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
POPDEL		<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
PRUSER		<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
QUEVEL		<i>Quercus velutina</i>	black oak	5	0	Native	tree	perennial	0	0	<i>Quercus velutina</i>
RHACAT		<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA		<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RUBOCC		<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SAMCAN		<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SECVAR		<i>Securigera varia</i>	crown-vetch, purple crown-vetch	0	0	Introduced	herb	perennial	0	Restricted	<i>Securigera varia</i>
SMIHER		<i>Smilax herbacea</i>	common carrion-flower	5	0	Native	herb	annual	0	0	<i>Smilax herbacea</i>
SOLCAN		<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SYMERI		<i>Symphyotrichum ericoides</i>	heath aster	4	FACU	Native	herb	0	0	0	<i>Symphyotrichum ericoides</i>
SYMPIL		<i>Symphyotrichum pilosum</i>	frost aster	1	FACU	Native	herb	perennial	0	0	<i>Symphyotrichum pilosum</i>
TAROFF		<i>Taraxacum officinale</i>	common dandelion	0	FACU	Introduced	herb	perennial	0	0	<i>Taraxacum officinale</i>

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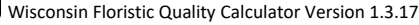


SITE NAME:	Urso Park Summer 2022		PLANT COMMUNITY:	Emergent Marsh
ASSESSMENT AREA NAME:	UMU-1 Emergent Marsh		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	7/12/2022
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
37	32	5	31%	29%	20.7	18.1	3.7	3.2	19.2	13.8	3.2	2.3	0.0	0.7	2.3	4.0
													0%	3%	102%	1%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
ALISUB	1	<i>Alisma subcordatum</i>	American water-plantain, common wat	3	OBL	Native	herb	perennial	0	0	<i>Alisma subcordatum</i>
ASCINC	1	<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
CARBEB	1	<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CARCRI1	1	<i>Carex cristatella</i>	crested oval sedge, crested sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex cristatella</i>
CARPEL	2	<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARSTI	1	<i>Carex stipata</i>	common fox sedge, owl-fruit sedge	2	OBL	Native	herb	perennial	0	0	<i>Carex stipata</i>
CARSTR	5	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CARVUL	1	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CIRARV	3	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
ELEERY	1	<i>Eleocharis erythropoda</i>	bald spike-rush	3	0	Native	herb	perennial	0	0	<i>Eleocharis erythropoda</i>
EUTMAC	1	<i>Eutrochium maculatum</i>	spotted Joe-Pye-weed	4	OBL	Native	herb	perennial	0	0	<i>Eutrochium maculatum</i>
GEUALE	1	<i>Geum aleppicum</i>	yellow avens	3	FACW/FAC	Native	herb	perennial	0	0	<i>Geum aleppicum</i>
HELGRO	2	<i>Helianthus grosseserratus</i>	saw-tooth sunflower	2	FACW	Native	herb	perennial	0	0	<i>Helianthus grosseserratus</i>
HYPPYR	1	<i>Hypericum ascyron</i>	giant St. John's-wort, great St. John's-w	6	FAC	Native	herb	0	0	0	<i>Hypericum ascyron</i> ssp. <i>pyramidatum</i>
JUNDUD	2	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>

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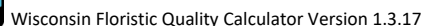


SITE NAME:	Urso Park Summer 2022		PLANT COMMUNITY:	Southern Hardwood Swamp
ASSESSMENT AREA NAME:	Southern Hardwood Swamp		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
42	34	8	50%	25%	19.0	21.9	3.3	3.8	17.1	18.2	2.6	2.8	4.5	1.0	1.9	0.0
													78%	26%	96%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCHARI	3	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
AGRGIG	2	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	3	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
BOECYL	3	<i>Boehmeria cylindrica</i>	small-spike false nettle	6	OBL	Native	herb	perennial	0	0	<i>Boehmeria cylindrica</i>
CARBEB	5	<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CARBLA	1	<i>Carex blanda</i>	common wood sedge, eastern woodland	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARSCO	1	<i>Carex scoparia</i>	broom sedge, lance-fruited oval sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex scoparia</i>
CARSTI	1	<i>Carex stipata</i>	common fox sedge, owl-fruit sedge	2	OBL	Native	herb	perennial	0	0	<i>Carex stipata</i>
CARVUL	2	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CAROVAT	12	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CIRARV	2	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CORRAC	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
EQUARV	3	<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
EREHIE	1	<i>Erechtites hieraciifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieraciifolius</i>
FRAPEN	3	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN	3	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>

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SITE NAME:	Urso Park Summer 2022		PLANT COMMUNITY:	Shrub-carr
ASSESSMENT AREA NAME:	UMU-1 Shrub-carr (East)		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
52	41	11	29%	24%	21.1	20.6	3.3	3.2	18.7	17.5	2.6	2.4	3.8	2.7	1.9	0.0
													14%	48%	57%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ASCINC	1	<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
CALSEP	1	<i>Calystegia sepium</i>	hedge bindweed, hedge false bindweed	2	FAC	Native	herb	perennial	0	0	<i>Calystegia sepium</i>
CARBEB	1	<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CARNOR	1	<i>Carex normalis</i>	greater straw sedge, intermediate sedge	5	FACW	Native	herb	perennial	0	0	<i>Carex normalis</i>
CARSTI	1	<i>Carex stipata</i>	common fox sedge, owl-fruit sedge	2	OBL	Native	herb	perennial	0	0	<i>Carex stipata</i>
CARVUL	1	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CORAMO	10	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORRAC	2	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwood	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	25	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ELEPAL	1	<i>Eleocharis palustris</i>	common spike-rush	6	OBL	Native	herb	perennial	0	0	<i>Eleocharis palustris</i>
ELYTREP	1	<i>Elymus repens</i>	couchgrass, creeping quackgrass, quack	0	FACU	Introduced	herb	0	0	0	<i>Elymus repens</i>
ERIPHI	1	<i>Erigeron philadelphicus</i>	common fleabane, marsh fleabane, Phil	2	FACW/FAC	Native	herb	biennial/perennial	0	0	<i>Erigeron philadelphicus</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
EUTGRA	1	<i>Euthamia graminifolia</i>	common flat-topped goldenrod, grass-lk	4	FACW/FAC	Native	herb	perennial	0	0	<i>Euthamia graminifolia</i>
GEUALE	1	<i>Geum aleppicum</i>	yellow avens	3	FACW/FAC	Native	herb	perennial	0	0	<i>Geum aleppicum</i>
GLYSTR	1	<i>Glyceria striata</i>	fowl manna grass, fowl meadow grass	4	OBL	Native	herb	perennial	0	0	<i>Glyceria striata</i>
IMPCAP	1	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	2	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LONTAT	1	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LOTCOR	1	<i>Lotus corniculatus</i>	bird's-foot deer-vetch, bird's-foot trefoil	0	FACU	Introduced	herb	perennial	0	Non-Restricted	<i>Lotus corniculatus</i>
LYCAME	1	<i>Lycopus americanus</i>	American water-horehound, common w	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
MALPUM	1	<i>Malus pumila</i>	cultivated apple	0	0	Introduced	tree	perennial	0	0	<i>Malus pumila</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI	1	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT	1	<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PERAMP	1	<i>Persicaria amphibia</i>	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	<i>Persicaria amphibia</i>
PHAARU	15	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHLPRA	1	<i>Phleum pratense</i>	timothy	0	FACU	Introduced	herb	perennial	0	0	<i>Phleum pratense</i>
POAPAL	1	<i>Poa palustris</i>	fowl meadow grass, marsh bluegrass	5	FACW	Native	herb	perennial	0	0	<i>Poa palustris</i>
POAPRA	1	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
POTNOR	1	<i>Potentilla norvegica</i>	Norwegian cinquefoil, rough cinquefoil,	0	FAC	Native	herb	annual/peren	0	0	<i>Potentilla norvegica</i>
QUEELL	1	<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
ROSMUL	5	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
SALAMY	2	<i>Salix amygdaloides</i>	peach-leaved willow	4	FACW	Native	tree	perennial	0	0	<i>Salix amygdaloides</i>
SALBEB	1	<i>Salix bebbiana</i>	beaked willow, Bebb's willow	7	FACW	Native	tree	perennial	0	0	<i>Salix bebbiana</i>
SALDIS	1	<i>Salix discolor</i>	pussy willow	2	FACW	Native	tree	perennial	0	0	<i>Salix discolor</i>
SALINT	5	<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG	5	<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SCIPEN	1	<i>Scirpus pendulus</i>	rufous bulrush	4	OBL	Native	herb	perennial	0	0	<i>Scirpus pendulus</i>
SOLCAN	3	<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SOLGIG	2	<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>
SPAPEC	1	<i>Spartina pectinata</i>	prairie cord grass, slough grass	5	FACW	Native	herb	perennial	0	0	<i>Spartina pectinata</i>
SYM FIR	2	<i>Symphyotrichum firmum</i>	glossy-leaved aster	6	OBL	Native	herb	perennial	0	0	<i>Symphyotrichum firmum</i>
SYMLAN	1	<i>Symphyotrichum lanceolatum</i>	panicked aster	4	FAC/FACW	Native	herb	perennial	0	0	<i>Symphyotrichum lanceolatum</i>
TOXRAD	1	<i>Toxicodendron radicans</i>	common eastern poison-ivy	4	FAC	Native	herb	perennial	0	0	<i>Toxicodendron radicans</i>
VERHAS	1	<i>Verbena hastata</i>	blue vervain, simpler's-joy, swamp verb	3	FACW	Native	herb	biennial/per	0	0	<i>Verbena hastata</i>
VITRIP	2	<i>Vitis riparia</i>	frost grape, river bank grape	2	FACW/FAC	Native	herb	perennial	0	0	<i>Vitis riparia</i>



SITE NAME:	Urso Park Summer 2022		PLANT COMMUNITY:	Shrub-carr
ASSESSMENT AREA NAME:	UMU-1 Shrub-carr (North)		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	7/12/2022
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
36	27	9	34%	21%	17.1	15.8	3.3	3.0	14.8	14.4	2.5	2.4	3.3	1.4	2.4	0.0
													58%	45%	58%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGRGRY	5	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ARCMIN	3	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BOECYL	3	<i>Boehmeria cylindrica</i>	small-spike false nettle	6	OBL	Native	herb	perennial	0	0	<i>Boehmeria cylindrica</i>
CARBEB	3	<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CAROVAT	3	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CORRAC	10	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	5	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
DRYCAR	2	<i>Dryopteris carthusiana</i>	spinulose wood fern, toothed wood fern	7	FACW	Native	herb	perennial	0	0	<i>Dryopteris carthusiana</i>
EQUARV	1	<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
FRAPEN	7	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN	3	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, c	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
IMPCAP	5	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	5	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LONTAT	8	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>

[illegible]

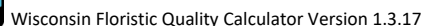


SITE NAME:	Urso Park Summer 2022		PLANT COMMUNITY:	Wet Meadow
ASSESSMENT AREA NAME:	UMU-1 Wet Meadow (North)		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
40	25	15	68%	57%	15.6	15.6	3.1	3.1	12.3	8.5	2.0	1.3	2.7	1.8	1.2	0.0
													3%	15%	101%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
ASCINC	1	<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
ASCSYR	2	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
CARPEL	1	<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARSTI	1	<i>Carex stipata</i>	common fox sedge, owl-fruit sedge	2	OBL	Native	herb	perennial	0	0	<i>Carex stipata</i>
CARVUL	1	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CIRARV	2	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CORRAC	2	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
ECHLOB	1	<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ELEACI	1	<i>Eleocharis acicularis</i>	needle spike-rush	5	OBL	Native	herb	perennial	0	0	<i>Eleocharis acicularis</i>
ERISTR	1	<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
EUTGRA	1	<i>Euthamia graminifolia</i>	common flat-topped goldenrod, grass-k	4	FACW/FAC	Native	herb	perennial	0	0	<i>Euthamia graminifolia</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
HYPPER	1	<i>Hypericum perforatum</i>	common St. John's-wort, Klamath-weed	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Hypericum perforatum</i>

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SITE NAME:	Urso Park Summer 2022		PLANT COMMUNITY:	Wet Meadow
ASSESSMENT AREA NAME:	UMU-1 Wet Meadow (Southcentral)		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
15	12	3	59%	51%	13.3	13.7	3.8	4.0	11.9	7.5	3.1	1.9	6.4	0.0	1.7	0.0
													7%	0%	109%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
BOECL	5	Boehmeria cylindrica	small-spike false nettle	6	OBL	Native	herb	perennial	0	0	Boehmeria cylindrica
CARVUL	3	Carex vulpinoidea	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	Carex vulpinoidea
CIRARV	4	Cirsium arvense	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	Cirsium arvense
GLYSTR	10	Glyceria striata	fowl manna grass, fowl meadow grass	4	OBL	Native	herb	perennial	0	0	Glyceria striata
IMPCAP	5	Impatiens capensis	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	Impatiens capensis
LYCAME	2	Lycopus americanus	American water-horehound, common w	4	OBL	Native	herb	perennial	0	0	Lycopus americanus
PERSAG	7	Persicaria sagittata	arrow-leaved tearthumb, arrow vine	6	OBL	Native	herb	annual	0	0	Persicaria sagittata
PHAARU	50	Phalaris arundinacea	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	Phalaris arundinacea
QUEMAC	2	Quercus macrocarpa	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	Quercus macrocarpa
SALBEB	5	Salix bebbiana	beaked willow, Bebb's willow	7	FACW	Native	tree	perennial	0	0	Salix bebbiana
SCICYP	2	Scirpus cyperinus	wool-grass	4	OBL	Native	herb	perennial	0	0	Scirpus cyperinus
SOLDUL	5	Solanum dulcamara	bittersweet nightshade	0	FAC	Introduced	herb	perennial	0	0	Solanum dulcamara
SOLGIG	8	Solidago gigantea	giant goldenrod	3	FACW	Native	herb	perennial	0	0	Solidago gigantea
URTDIO	3	Urtica dioica	stinging nettle	1	FACW/FAC	Native	herb	perennial	0	0	Urtica dioica
VITRIP	5	Vitis riparia	frost grape, river bank grape	2	FACW/FAC	Native	herb	perennial	0	0	Vitis riparia



SITE NAME:	Urso Park Summer 2022		PLANT COMMUNITY:	Oak Woodland
ASSESSMENT AREA NAME:	UMU-2 Oak Woodland		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	7/12/2022
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

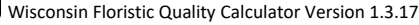
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
67	53	14	33%	21%	25.7	29.2	3.5	4.0	22.8	27.2	2.8	3.3	4.8	1.8	2.6	0.0
													65%	33%	61%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCHARI	1	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
AGRGRY	2	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANECAN	1	<i>Anemone canadensis</i>	Canada anemone, Canadian anemone, ı	4	FACW	Native	herb	perennial	0	0	<i>Anemone canadensis</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ARITRI	1	<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
ATHFIL	1	<i>Athyrium filix-femina</i>	common lady fern, lady fern	5	FAC	Native	herb	perennial	0	0	<i>Athyrium filix-femina</i>
BOE CYL	1	<i>Boehmeria cylindrica</i>	small-spike false nettle	6	OBL	Native	herb	perennial	0	0	<i>Boehmeria cylindrica</i>
CALSEP	1	<i>Calystegia sepium</i>	hedge bindweed, hedge false bindweed	2	FAC	Native	herb	perennial	0	0	<i>Calystegia sepium</i>
CARNOR	2	<i>Carex normalis</i>	greater straw sedge, intermediate sedge	5	FACW	Native	herb	perennial	0	0	<i>Carex normalis</i>
CARROSE	1	<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CARTENE	1	<i>Carex tenera</i>	marsh straw sedge, narrow-leaved oval	4	FACW/FAC	Native	herb	perennial	0	0	<i>Carex tenera</i>
CARVUL	1	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CAROVAT	25	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CIRCAN	2	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRARV	5	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CORRAC	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	5	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRAMOL	1	<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ECHLOB	1	<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ELYHYS	2	<i>Elymus hystrix</i>	bottlebrush grass, eastern bottlebrush g	6	FACU	Native	herb	perennial	0	0	<i>Elymus hystrix</i>
ELYVIL	1	<i>Elymus villosus</i>	downy wild-rye, hairy wild-rye, silky wil	6	FACU	Native	herb	0	0	0	<i>Elymus villosus</i>
EPICOL	1	<i>Epilobium coloratum</i>	cinnamon willow-herb, eastern willow-t	3	OBL	Native	herb	perennial	0	0	<i>Epilobium coloratum</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR	1	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLYSTR	1	<i>Glyceria striata</i>	fowl manna grass, fowl meadow grass	4	OBL	Native	herb	perennial	0	0	<i>Glyceria striata</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
IMPCAP	2	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUNDUD	1	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LACCAN	1	<i>Lactuca canadensis</i>	Canada lettuce, tall lettuce, tall wild lett	2	FACU	Native	herb	annual/bienr	0	0	<i>Lactuca canadensis</i>
LAPCAN	2	<i>Laportea canadensis</i>	Canadian wood-nettle	4	FACW	Native	herb	perennial	0	0	<i>Laportea canadensis</i>
LONTAT	2	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYCAME	1	<i>Lycopus americanus</i>	American water-horehound, common w	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
ONOSEN	1	<i>Onoclea sensibilis</i>	sensitive fern	5	FACW	Native	herb	perennial	0	0	<i>Onoclea sensibilis</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI	2	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PERSAG	1	<i>Persicaria sagittata</i>	arrow-leaved tearthumb, arrow vine	6	OBL	Native	herb	annual	0	0	<i>Persicaria sagittata</i>
PERVIR	1	<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/peren	0	0	<i>Persicaria virginiana</i>
POAPAL	1	<i>Poa palustris</i>	fowl meadow grass, marsh bluegrass	5	FACW	Native	herb	perennial	0	0	<i>Poa palustris</i>
POPALB	1	<i>Populus alba</i>	silver poplar, white poplar	0	0	Introduced	tree	perennial	0	Restricted	<i>Populus alba</i>
POTSIM	1	<i>Potentilla simplex</i>	common cinquefoil, old-field five-finger	2	FACU	Native	herb	perennial	0	0	<i>Potentilla simplex</i>
PRUSER	2	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
QUEALB	5	<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEMAC	15	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB	10	<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RHACAT	4	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBMIS	1	<i>Ribes missouriense</i>	Missouri gooseberry	4	0	Native	shrub	perennial	0	0	<i>Ribes missouriense</i>
ROSMUL	10	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL	2	<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC	1	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>

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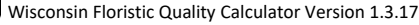


SITE NAME:	Urso Park Summer 2022		PLANT COMMUNITY:	Orchard, Pasture, & Conifer Plantation
ASSESSMENT AREA NAME:	UMU-3 Orchard & Conifer Plantation		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
37	25	12	107%	42%	14.4	14.0	2.9	2.8	11.8	10.3	1.9	1.7	2.1	1.8	1.4	0.0
													85%	25%	146%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	15	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGEALT	5	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
ARGGIG	2	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	3	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
BROINE	3	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CARBEB	2	<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>
CARVUL	3	<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CIRCAN	5	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRARV	3	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
DRYCAR	1	<i>Dryopteris carthusiana</i>	spinulose wood fern, toothed wood fern	7	FACW	Native	herb	perennial	0	0	<i>Dryopteris carthusiana</i>
ERIANN	2	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAPEN	5	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR	2	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GEUCAN	3	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HACVIR	2	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
JUGNIG	10	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>

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SITE NAME:	Urso Park Summer 2022		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons and John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/12/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
148	113	35			37.7		3.5		33.0		2.7					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCHARI		<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
ACHMIL		<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG		<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALISUB		<i>Alisma subcordatum</i>	American water-plantain, common wat	3	OBL	Native	herb	perennial	0	0	<i>Alisma subcordatum</i>
ALLPET		<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANECAN		<i>Anemone canadensis</i>	Canada anemone, Canadian anemone, i	4	FACW	Native	herb	perennial	0	0	<i>Anemone canadensis</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ARITRI		<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
ASCINC		<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
ASCSYR		<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
ATHFIL		<i>Athyrium filix-femina</i>	common lady fern, lady fern	5	FAC	Native	herb	perennial	0	0	<i>Athyrium filix-femina</i>
BOE CYL		<i>Boehmeria cylindrica</i>	small-spike false nettle	6	OBL	Native	herb	perennial	0	0	<i>Boehmeria cylindrica</i>
BROINE		<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CALSEP		<i>Calystegia sepium</i>	hedge bindweed, hedge false bindweed	2	FAC	Native	herb	perennial	0	0	<i>Calystegia sepium</i>
CARBEB		<i>Carex bebbii</i>	Bebb's oval sedge, Bebb's sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex bebbii</i>



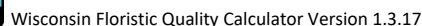
ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CARBLA		<i>Carex blanda</i>	common wood sedge, eastern woodland	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARCRI1		<i>Carex cristatella</i>	crested oval sedge, crested sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex cristatella</i>
CARNOR		<i>Carex normalis</i>	greater straw sedge, intermediate sedge	5	FACW	Native	herb	perennial	0	0	<i>Carex normalis</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEL		<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARROSE		<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CARSCO		<i>Carex scoparia</i>	broom sedge, lance-fruited oval sedge	4	FACW	Native	herb	perennial	0	0	<i>Carex scoparia</i>
CARSTI		<i>Carex stipata</i>	common fox sedge, owl-fruit sedge	2	OBL	Native	herb	perennial	0	0	<i>Carex stipata</i>
CARSTR		<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CARTENE		<i>Carex tenera</i>	marsh straw sedge, narrow-leaved oval	4	FACW/FAC	Native	herb	perennial	0	0	<i>Carex tenera</i>
CARVUL		<i>Carex vulpinoidea</i>	brown fox sedge, fox sedge	2	FACW/OBL	Native	herb	perennial	0	0	<i>Carex vulpinoidea</i>
CIRARV		<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRCAN		<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CIRVUL		<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CORAMO		<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORRAC		<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER		<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRAMOL		<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
DRYCAR		<i>Dryopteris carthusiana</i>	spinulose wood fern, toothed wood fern	7	FACW	Native	herb	perennial	0	0	<i>Dryopteris carthusiana</i>
ECHLOB		<i>Echinocystis lobata</i>	balsam-apple, wild-cucumber	2	FACW	Native	herb	annual	0	0	<i>Echinocystis lobata</i>
ELAUMB		<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ELEACI		<i>Eleocharis acicularis</i>	needle spike-rush	5	OBL	Native	herb	perennial	0	0	<i>Eleocharis acicularis</i>
ELEERY		<i>Eleocharis erythropoda</i>	bald spike-rush	3	0	Native	herb	perennial	0	0	<i>Eleocharis erythropoda</i>
ELEPAL		<i>Eleocharis palustris</i>	common spike-rush	6	OBL	Native	herb	perennial	0	0	<i>Eleocharis palustris</i>
ELYHYS		<i>Elymus hystrix</i>	bottlebrush grass, eastern bottlebrush g	6	FACU	Native	herb	perennial	0	0	<i>Elymus hystrix</i>
ELYTREP		<i>Elymus repens</i>	couchgrass, creeping quackgrass, quack	0	FACU	Introduced	herb	0	0	0	<i>Elymus repens</i>
ELYVIL		<i>Elymus villosus</i>	downy wild-rye, hairy wild-rye, silky wil	6	FACU	Native	herb	0	0	0	<i>Elymus villosus</i>
EPICOL		<i>Epilobium coloratum</i>	cinnamon willow-herb, eastern willow-t	3	OBL	Native	herb	perennial	0	0	<i>Epilobium coloratum</i>
EQUARV		<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
EREHIE		<i>Erechtites hieraciifolius</i>	American burn-weed, fireweed	2	0	Native	herb	annual	0	0	<i>Erechtites hieraciifolius</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
ERIPHI		<i>Erigeron philadelphicus</i>	common fleabane, marsh fleabane, Phil	2	FACW/FAC	Native	herb	biennial/per	0	0	<i>Erigeron philadelphicus</i>
ERISTR		<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
EUTGRA		<i>Euthamia graminifolia</i>	common flat-topped goldenrod, grass-k	4	FACW/FAC	Native	herb	perennial	0	0	<i>Euthamia graminifolia</i>
EUTMAC		<i>Eutrochium maculatum</i>	spotted Joe-Pye-weed	4	OBL	Native	herb	perennial	0	0	<i>Eutrochium maculatum</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
FRAVIR		<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GALAPA		<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUALE		<i>Geum aleppicum</i>	yellow avens	3	FACW/FAC	Native	herb	perennial	0	0	<i>Geum aleppicum</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED		<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, g	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
GLYSTR		<i>Glyceria striata</i>	fowl manna grass, fowl meadow grass	4	OBL	Native	herb	perennial	0	0	<i>Glyceria striata</i>
HACVIR		<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HELGRO		<i>Helianthus grosseserratus</i>	saw-tooth sunflower	2	FACW	Native	herb	perennial	0	0	<i>Helianthus grosseserratus</i>
HYPPER		<i>Hypericum perforatum</i>	common St. John's-wort, Klamath-weed	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Hypericum perforatum</i>
HYPPYR		<i>Hypericum ascyron</i>	giant St. John's-wort, great St. John's-w	6	FAC	Native	herb	0	0	0	<i>Hypericum ascyron ssp. pyramidatum</i>
IMPCAP		<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNDUD		<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
JUNVIR		<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LACCAN		<i>Lactuca canadensis</i>	Canada lettuce, tall lettuce, tall wild lett	2	FACU	Native	herb	annual/bienr	0	0	<i>Lactuca canadensis</i>
LACSER		<i>Lactuca serriola</i>	compass-plant, prickly lettuce	0	FACU	Introduced	herb	annual/bienr	0	0	<i>Lactuca serriola</i>
LAPCAN		<i>Laportea canadensis</i>	Canadian wood-nettle	4	FACW	Native	herb	perennial	0	0	<i>Laportea canadensis</i>
LEEORY		<i>Leersia oryzoides</i>	rice cut grass	3	OBL	Native	herb	perennial	0	0	<i>Leersia oryzoides</i>
LEMMIN		<i>Lemna minor</i>	common duckweed, lesser duckweed, sr	4	OBL	Native	aquatic	perennial	0	0	<i>Lemna minor</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LOTCOR		<i>Lotus corniculatus</i>	bird's-foot deer-vetch, bird's-foot trefoil	0	FACU	Introduced	herb	perennial	0	Non-Restricted	<i>Lotus corniculatus</i>
LYCAME		<i>Lycopus americanus</i>	American water-horehound, common w	4	OBL	Native	herb	perennial	0	0	<i>Lycopus americanus</i>
LYTALA		<i>Lythrum alatum</i>	winged loosestrife, winged lythrum	6	OBL	Native	herb	0	0	0	<i>Lythrum alatum</i>
MALPUM		<i>Malus pumila</i>	cultivated apple	0	0	Introduced	tree	perennial	0	0	<i>Malus pumila</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB		<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
ONOSEN		<i>Onoclea sensibilis</i>	sensitive fern	5	FACW	Native	herb	perennial	0	0	<i>Onoclea sensibilis</i>
OXASTR		<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT		<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PERAMP		<i>Persicaria amphibia</i>	water heart's-ease, water smartweed	5	OBL	Native	herb	perennial	0	0	<i>Persicaria amphibia</i>
PERHYD		<i>Persicaria hydropiper</i>	marsh-pepper smartweed, water-peppe	0	OBL	Introduced	herb	annual	0	0	<i>Persicaria hydropiper</i>
PERMAC		<i>Persicaria maculosa</i>	heart's-ease, spotted lady's-thumb	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Persicaria maculosa</i>
PERSAG		<i>Persicaria sagittata</i>	arrow-leaved tearthumb, arrow vine	6	OBL	Native	herb	annual	0	0	<i>Persicaria sagittata</i>
PERVIR		<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/peren	0	0	<i>Persicaria virginiana</i>
PHAARU		<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PHLPRA		<i>Phleum pratense</i>	timothy	0	FACU	Introduced	herb	perennial	0	0	<i>Phleum pratense</i>



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PICABI		<i>Picea abies</i>	Norway spruce	0	0	Introduced	tree	perennial	0	0	<i>Picea abies</i>
PINRES		<i>Pinus resinosa</i>	Canadian pine, Norway pine, red pine	7	FACU	Native	tree	perennial	0	0	<i>Pinus resinosa</i>
PLAMAJ		<i>Plantago major</i>	broad-leaved plantain, common plantain	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Plantago major</i>
POAPAL		<i>Poa palustris</i>	fowl meadow grass, marsh bluegrass	5	FACW	Native	herb	perennial	0	0	<i>Poa palustris</i>
POAPRA		<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
POPALB		<i>Populus alba</i>	silver poplar, white poplar	0	0	Introduced	tree	perennial	0	Restricted	<i>Populus alba</i>
POPDEL		<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
POTNOR		<i>Potentilla norvegica</i>	Norwegian cinquefoil, rough cinquefoil	0	FAC	Native	herb	annual/perenn	0	0	<i>Potentilla norvegica</i>
POTSIM		<i>Potentilla simplex</i>	common cinquefoil, old-field five-finger	2	FACU	Native	herb	perennial	0	0	<i>Potentilla simplex</i>
PRUSER		<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PRUVUL		<i>Prunella vulgaris</i>	heal-all, lawn prunella, self-heal	1	FAC	Native	herb	perennial	0	0	<i>Prunella vulgaris</i>
PYCVIR		<i>Pycnanthemum virginianum</i>	common mountain mint, Virginia mountain mint	6	FACW	Native	herb	perennial	0	0	<i>Pycnanthemum virginianum</i>
QUEALB		<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEELL		<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
QUEMAC		<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB		<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RHACAT		<i>Rhamnus cathartica</i>	common buckthorn, European buckthorn	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBMIS		<i>Ribes missouriense</i>	Missouri gooseberry	4	0	Native	shrub	perennial	0	0	<i>Ribes missouriense</i>
RORPAL		<i>Rorippa palustris</i>	bog yellow-cress, common yellow-cress	3	OBL	Native	herb	annual/bienn	0	0	<i>Rorippa palustris</i>
ROSMUL		<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL		<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC		<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
RUMCRI		<i>Rumex crispus</i>	curly dock, sour dock	0	FAC	Introduced	herb	perennial	0	0	<i>Rumex crispus</i>
SALAMY		<i>Salix amygdaloides</i>	peach-leaved willow	4	FACW	Native	tree	perennial	0	0	<i>Salix amygdaloides</i>
SALBEB		<i>Salix bebbiana</i>	beaked willow, Bebb's willow	7	FACW	Native	tree	perennial	0	0	<i>Salix bebbiana</i>
SALDIS		<i>Salix discolor</i>	pussy willow	2	FACW	Native	tree	perennial	0	0	<i>Salix discolor</i>
SALINT		<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG		<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SAMCAN		<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SANODO		<i>Sanicula odorata</i>	clustered black snakeroot	3	FAC	Native	herb	perennial	0	0	<i>Sanicula odorata</i>
SCHTAB		<i>Schoenoplectus tabernaemontani</i>	great bulrush, soft-stem bulrush	4	OBL	Native	herb	perennial	0	0	<i>Schoenoplectus tabernaemontani</i>
SCIATR		<i>Scirpus atrovirens</i>	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	<i>Scirpus atrovirens</i>
SCICYP		<i>Scirpus cyperinus</i>	wool-grass	4	OBL	Native	herb	perennial	0	0	<i>Scirpus cyperinus</i>
SCIPEN		<i>Scirpus pendulus</i>	rufous bulrush	4	OBL	Native	herb	perennial	0	0	<i>Scirpus pendulus</i>
SOLCAN		<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SOLDUL		<i>Solanum dulcamara</i>	bittersweet nightshade	0	FAC	Introduced	herb	perennial	0	0	<i>Solanum dulcamara</i>
SOLGIG		<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>

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SITE NAME:	Woodland Commons Conservancy Summer 2022		PLANT COMMUNITY:	Southern Dry-mesic Forest
ASSESSMENT AREA NAME:	WMU-1 Southern Dry-mesic Forest		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/19/2022
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

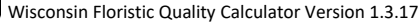
RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C _n	Weighted Mean C _{wC_n}	FQI _a	w FQI _a	Mean C _a	Weighted Mean C _{wC_a}	Tree	Shrub	Herb	Aquatic
64	50	14	55%	22%	24.7	26.7	3.5	3.8	21.9	24.9	2.7	3.1	4.1	1.5	2.5	0.0
													136%	63%	53%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	3	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGEALT	2	<i>Ageratina altissima</i>	white snakeroot	1	FACU	Native	herb	perennial	0	0	<i>Ageratina altissima</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANEQUI	2	<i>Anemone quinquefolia</i>	nightcups, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ANEVIR	1	<i>Anemone virginiana</i>	tall anemone, tall thimbleweed	5	FACU	Native	herb	perennial	0	0	<i>Anemone virginiana</i>
ARITRI	1	<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
BROINE	1	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CARBLA	1	<i>Carex blanda</i>	common wood sedge, eastern woodland	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARROSE	2	<i>Carex rosea</i>	curly-styled wood sedge, rosy sedge, ste	4	FACU	Native	herb	perennial	0	0	<i>Carex rosea</i>
CAROVAT	1	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CELOCC	3	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CENSTO	1	<i>Centaurea stoebe</i>	Spotted knapweed	0	0	Introduced	herb	biennial/per	0	Restricted	<i>Centaurea stoebe</i>
CIRCAN	5	<i>Circaea canadensis</i>	broad-leaf enchanter's-nightshade	2	FACU	Native	herb	perennial	0	0	<i>Circaea canadensis</i>
CONMAJ	1	<i>Convallaria majalis</i>	European lily-of-the-valley, lily-of-the-vc	0	0	Introduced	herb	0	0	Non-Restricted	<i>Convallaria majalis</i>
CORAMO	1	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAAME	3	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN	10	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	2	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GERMAC	1	<i>Geranium maculatum</i>	Crane's-bill, spotted geranium, wild ger	4	FACU	Native	herb	perennial	0	0	<i>Geranium maculatum</i>
GEUCAN	3	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HYPPUN	1	<i>Hypericum punctatum</i>	spotted St. John's-wort	4	FAC	Native	herb	perennial	0	0	<i>Hypericum punctatum</i>
JUGNIG	10	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LONRET	1	<i>Lonicera reticulata</i>	grape honeysuckle, yellow honeysuckle	6	0	Native	shrub	perennial	0	0	<i>Lonicera reticulata</i>
LONTAT	7	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MAIRAC	4	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MELOFF	1	<i>Mellilotus officinalis</i>	yellow sweet-clover	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	<i>Mellilotus officinalis</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB	2	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
OXASTR	1	<i>Oxalis stricta</i>	common yellow oxalis, tall wood-sorrel	0	FACU	Native	herb	perennial	0	0	<i>Oxalis stricta</i>
PARQUI	5	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
POAPRA	1	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PODPEL	3	<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POPDEL	5	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
POPGRA	1	<i>Populus grandidentata</i>	big-tooth aspen, large-toothed aspen	3	FACU	Native	tree	perennial	0	0	<i>Populus grandidentata</i>
POTREC	1	<i>Potentilla recta</i>	rough-fruited cinquefoil, sulphur cinque,	0	0	Introduced	herb	perennial	0	0	<i>Potentilla recta</i>
PRUSER	42	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
QUEALB	30	<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEMAC	5	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUEVEL	9	<i>Quercus velutina</i>	black oak	5	0	Native	tree	perennial	0	0	<i>Quercus velutina</i>
RHACAT	31	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA	10	<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RIBAME	1	<i>Ribes americanum</i>	American black currant, eastern black c	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
RUBOCC	1	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SAMCAN	1	<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SCRMAR	1	<i>Scrophularia marilandica</i>	carpenter's-square, eastern figwort, lat	4	FACU	Native	herb	perennial	0	0	<i>Scrophularia marilandica</i>
SMIHER	1	<i>Smilax herbacea</i>	common carrion-flower	5	0	Native	herb	annual	0	0	<i>Smilax herbacea</i>
SOLCAN	1	<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SOLGIG	1	<i>Solidago gigantea</i>	giant goldenrod	3	FACW	Native	herb	perennial	0	0	<i>Solidago gigantea</i>

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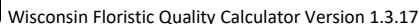


SITE NAME:	Yahara River Conservancy Summer 2022		PLANT COMMUNITY:	Floodplain Forest & Emergent Marsh
ASSESSMENT AREA NAME:	YMU-1 Floodplain Forest & Emergent Marsh		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	7/19/2022
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
40	23	17	70%	34%	13.3	11.2	2.8	2.3	10.1	9.8	1.6	1.5	2.2	1.7	0.8	0.0
													85%	36%	85%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ASCINC	1	<i>Asclepias incarnata</i>	swamp milkweed	5	OBL	Native	herb	perennial	0	0	<i>Asclepias incarnata</i>
ASCSYR	1	<i>Asclepias syriaca</i>	common milkweed, silkweed	1	FACU/UPL	Native	herb	perennial	0	0	<i>Asclepias syriaca</i>
CALSEP	5	<i>Calystegia sepium</i>	hedge bindweed, hedge false bindweed	2	FAC	Native	herb	perennial	0	0	<i>Calystegia sepium</i>
CARLAC	1	<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>
CICINT	1	<i>Cichorium intybus</i>	blue-sailors, chicory	0	FACU	Introduced	herb	perennial	0	0	<i>Cichorium intybus</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CORAMO	5	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORSER	7	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ECHCRU	1	<i>Echinochloa crus-galli</i>	barnyard grass, large barnyard grass	0	FACW/FAC	Introduced	herb	annual	0	0	<i>Echinochloa crus-galli</i>
FRAPEN	6	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, g	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HACVIR	2	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>

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SITE NAME:	Babcock Conservancy Spring 2023		PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	BMU-1 Southern Mesic Forest		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
16	14	2	2%	1%	20.8	20.4	5.6	5.4	19.5	21.7	4.9	5.4	4.7	4.0	6.4	0.0	
													130%	2%	98%	0%	:Total Cover

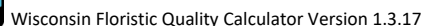
ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCH ARU	75	<i>Acer saccharum</i>	hard maple, sugar maple	5	FACU	Native	tree	perennial	0	0	<i>Acer saccharum</i>
ALLTRI	2	<i>Allium tricoccum</i>	ramp, wild leek	6	FACU	Native	herb	perennial	0	0	<i>Allium tricoccum</i>
CARCON	35	<i>Cardamine concatenata</i>	cut-leaved toothwort, five-parted toothwort	6	FACU	Native	herb	annual/perennial	0	0	<i>Cardamine concatenata</i>
CELOCC	27	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CLAVIR	1	<i>Claytonia virginica</i>	spring-beauty, Virginia spring-beauty	6	FACU	Native	herb	perennial	0	0	<i>Claytonia virginica</i>
ERYALB	45	<i>Erythronium albidum</i>	small white fawn-lily, white dog-tooth violet	7	FACU	Native	herb	perennial	0	0	<i>Erythronium albidum</i>
FRAPEN	2	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
HYDVIR	1	<i>Hydrophyllum virginianum</i>	John's-cabbage, Shawnee-salad, Virginia waterhemp	4	FAC	Native	herb	perennial	0	0	<i>Hydrophyllum virginianum</i>
LONTAT	1	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MAIRAC	1	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, lady's-ear	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
PODPEL	5	<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
PRUSER	1	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
SANGCAN	1	<i>Sanguinaria canadensis</i>	bloodroot	6	FACU	Native	herb	perennial	0	0	<i>Sanguinaria canadensis</i>
THATHA	7	<i>Thalictrum thalictroides</i>	rue-anemone, wind-flower	7	FACU	Native	herb	perennial	0	0	<i>Thalictrum thalictroides</i>
TILAME	25	<i>Tilia americana</i>	American linden, basswood	5	FACU	Native	tree	perennial	0	0	<i>Tilia americana</i>
VIBOPU	1	<i>Viburnum opulus</i>	cranberry viburnum, European cranberry	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	<i>Viburnum opulus</i>



SITE NAME:	Babcock Conservancy Spring 2023		PLANT COMMUNITY:	Southern Hardwood Swamp & Emergent Marsh
ASSESSMENT AREA NAME:	BMU-2 Southern Hardwood Swamp & Emergent Marsh		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
39	30	9	24%	31%	22.8	17.4	4.2	3.2	20.0	14.9	3.2	2.4	2.5	2.3	2.4	0.0	
													31%	16%	30%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	9	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ANEQUI	1	<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
CARCON	1	<i>Cardamine concatenata</i>	cut-leaved toothwort, five-parted toothwort	6	FACU	Native	herb	annual/perennial	0	0	<i>Cardamine concatenata</i>
CARSPR	1	<i>Carex sprengei</i>	long-beaked sedge, Sprengel's sedge	6	FAC	Native	herb	perennial	0	0	<i>Carex sprengei</i>
CATSPE	1	<i>Catalpa speciosa</i>	northern catalpa	0	FACU	Introduced	tree	perennial	0	0	<i>Catalpa speciosa</i>
CELOCC	3	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CORAMO	1	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
ERYALB	2	<i>Erythronium albidum</i>	small white fawn-lily, white dog-tooth violet	7	FACU	Native	herb	perennial	0	0	<i>Erythronium albidum</i>
FRAAME	1	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN	3	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HEMFUL	2	<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
HYDVIR	1	<i>Hydrophyllum virginianum</i>	John's-cabbage, Shawnee-salad, Virginia	4	FAC	Native	herb	perennial	0	0	<i>Hydrophyllum virginianum</i>

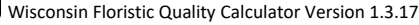
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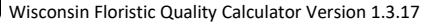


SITE NAME:	Babcock Conservancy Spring 2023		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
44	35	9			25.5		4.3		22.8		3.4					
													0%	0%	0%	0%
													:Total Cover			

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCH ARU		<i>Acer saccharum</i>	hard maple, sugar maple	5	FACU	Native	tree	perennial	0	0	<i>Acer saccharum</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLTRI		<i>Allium tricoccum</i>	ramp, wild leek	6	FACU	Native	herb	perennial	0	0	<i>Allium tricoccum</i>
ANEQUI		<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
CARCON		<i>Cardamine concatenata</i>	cut-leaved toothwort, five-parted toothwort	6	FACU	Native	herb	annual/perennial	0	0	<i>Cardamine concatenata</i>
CARSPR		<i>Carex sprengei</i>	long-beaked sedge, Sprengel's sedge	6	FAC	Native	herb	perennial	0	0	<i>Carex sprengei</i>
CATSPE		<i>Catalpa speciosa</i>	northern catalpa	0	FACU	Introduced	tree	perennial	0	0	<i>Catalpa speciosa</i>
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CLAVIR		<i>Claytonia virginica</i>	spring-beauty, Virginia spring-beauty	6	FACU	Native	herb	perennial	0	0	<i>Claytonia virginica</i>
CORAMO		<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
ERYALB		<i>Erythronium albidum</i>	small white fawn-lily, white dog-tooth violet	7	FACU	Native	herb	perennial	0	0	<i>Erythronium albidum</i>
FRAAME		<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>

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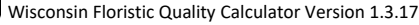


SITE NAME:	Grandview Conservancy Spring 2023		PLANT COMMUNITY:	Southern Hardwood Swamp
ASSESSMENT AREA NAME:	GMU-1A Southern Hardwood Swamp		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
28	18	10	46%	35%	11.3	10.1	2.7	2.4	9.1	8.2	1.7	1.5	2.3	0.7	0.9	0.0
													63%	22%	46%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARI	30	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
AGRGIG	5	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yellow	0	FAC	Introduced	herb	biennial/perennial	0	0	<i>Barbarea vulgaris</i>
CARSTR	1	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CORFOE	2	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwood	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	1	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
ERIANN	2	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LONTAT	10	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYSNUM	1	<i>Lysimachia nummularia</i>	creeping-Charlie, creeping-Jennie, moneywort	0	FACW	Introduced	herb	perennial	0	Restricted	<i>Lysimachia nummularia</i>
MALPUM	1	<i>Malus pumila</i>	cultivated apple	0	0	Introduced	tree	perennial	0	0	<i>Malus pumila</i>
PHAARU	20	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
POPDEL	15	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>

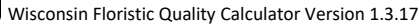
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SITE NAME:	Grandview Conservancy Spring 2023		PLANT COMMUNITY:	Wet Meadow & Wet-mesic Prairie
ASSESSMENT AREA NAME:	GMU-1A Wet Meadow		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
26	17	9	61%	58%	14.6	20.1	3.5	4.9	11.8	10.4	2.3	2.0	2.0	0.6	2.8	0.0	
													2%	36%	67%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yellow	0	FAC	Introduced	herb	biennial/perennial	0	0	<i>Barbarea vulgaris</i>
CALCAN	2	<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARPEL	2	<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARSTR	20	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CICMAC	1	<i>Cicuta maculata</i>	common water-hemlock, spotted water	6	OBL	Native	herb	perennial	0	0	<i>Cicuta maculata</i>
CORFOE	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwood	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	2	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, ground	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
LONTAT	20	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYSNUM	1	<i>Lysimachia nummularia</i>	creeping-Charlie, creeping-Jennie, money	0	FACW	Introduced	herb	perennial	0	Restricted	<i>Lysimachia nummularia</i>
PACPLA	1	<i>Packera plattensis</i>	Platte groundsel, prairie groundsel, prairie	6	FACU	Native	herb	biennial/perennial	Special concern	0	<i>Packera plattensis</i>
PASSAT	1	<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PHAARU	30	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>

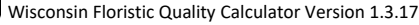
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SITE NAME:	Grandview Conservancy Spring 2023		PLANT COMMUNITY:	Emergent Marsh & Southern Hardwood Swamp
ASSESSMENT AREA NAME:	GMU-1B Emergent Marsh & Southern Hardwood Swamp (North)		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
28	16	12	27%	49%	10.5	15.0	2.6	3.8	7.9	10.1	1.5	1.9	2.3	2.8	1.7	0.0	
													9%	4%	42%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACESACCHARI	1	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
AGRGIG	3	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yellow	0	FAC	Introduced	herb	biennial/perennial	0	0	<i>Barbarea vulgaris</i>
CARSTR	8	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
DACGLO	1	<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HEMFUL	1	<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
IMPCAP	1	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-not	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	1	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
PASSAT	1	<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PHAARU	10	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>

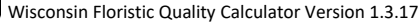
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SITE NAME:	Grandview Conservancy Spring 2023		PLANT COMMUNITY:	Mesic Prairie
ASSESSMENT AREA NAME:	GMU-2A Mesic Prairie		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
34	17	17	54%	64%	12.9	10.3	3.1	2.5	9.1	6.3	1.6	1.1	4.2	1.0	0.7	0.0	
													6%	44%	34%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
AGRGIG	2	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yell	0	FAC	Introduced	herb	biennial/per	0	0	<i>Barbarea vulgaris</i>
CARBLA	1	<i>Carex blanda</i>	common wood sedge, eastern woodlan	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CORFOE	10	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DACGLO	2	<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DAUCAR	2	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
DUCIND	1	<i>Duchesnea indica</i>	false strawberry, Indian strawberry	0	FACU	Introduced	herb	perennial	0	0	<i>Duchesnea indica</i>
ERISTR	2	<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR	1	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
LONTAT	20	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYSNUM	1	<i>Lysimachia nummularia</i>	creeping-Charlie, creeping-Jennie, mone	0	FACW	Introduced	herb	perennial	0	Restricted	<i>Lysimachia nummularia</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
PARQUI	1	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>

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SITE NAME:	Grandview Conservancy Spring 2023		PLANT COMMUNITY:	Shrub-invaded Mesic Prairie
ASSESSMENT AREA NAME:	GMU-2B Invaded Mesic Prairie		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
22	15	7	48%	39%	10.6	10.5	2.7	2.7	8.7	7.7	1.9	1.6	4.5	1.9	0.7	0.0
													6%	75%	41%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG	3	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	2	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
BROINE	5	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CORFOE	35	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ERIANN	2	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR	1	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
LONTAT	20	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
PARQUI	2	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PHAARU	10	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
POAPRA	7	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
QUEMAC	1	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
RHUGLA	3	<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RUBALL	5	<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>

[illegible]

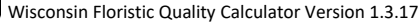


SITE NAME:	Grandview Conservancy Spring 2023		PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	GMU-3A Southern Mesic Forest (South)		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
23	12	11	60%	39%	10.4	2.0	3.0	0.6	7.5	1.7	1.6	0.3	0.2	0.1	1.3	0.0
													82%	47%	23%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	75	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ALLPET	2	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CRYCAN	1	<i>Cryptotaenia canadensis</i>	Canadian honewort, white chervil	4	FAC	Native	herb	perennial	0	0	<i>Cryptotaenia canadensis</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, c	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HEMFUL	1	<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
IMPCAP	1	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	5	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LEOCAR	1	<i>Leonurus cardiaca</i>	lion's-tail, motherwort	0	0	Introduced	herb	perennial	0	0	<i>Leonurus cardiaca</i>
LONTAT	40	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYSNUM	1	<i>Lysimachia nummularia</i>	creeping-Charlie, creeping-Jennie, mone	0	FACW	Introduced	herb	perennial	0	Restricted	<i>Lysimachia nummularia</i>
MORALB	1	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
ONOSEN	1	<i>Onoclea sensibilis</i>	sensitive fern	5	FACW	Native	herb	perennial	0	0	<i>Onoclea sensibilis</i>
PHAARU	6	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
RANHIS	1	<i>Ranunculus hispidus</i>	bristly buttercup, hispid buttercup, roug	6	FAC	Native	herb	perennial	0	0	<i>Ranunculus hispidus</i>

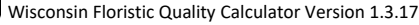
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SITE NAME:	Grandview Conservancy Spring 2023		PLANT COMMUNITY:	Southern Mesic Forest
ASSESSMENT AREA NAME:	GMU-3B Southern Mesic Forest (North)		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
40	30	10	40%	19%	19.7	17.8	3.6	3.3	17.1	16.7	2.7	2.6	3.1	1.0	1.8	0.0	
													149%	19%	45%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	35	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ALLPET	2	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANEVIR	1	<i>Anemone virginiana</i>	tall anemone, tall thimbleweed	5	FACU	Native	herb	perennial	0	0	<i>Anemone virginiana</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yell	0	FAC	Introduced	herb	biennial/per	0	0	<i>Barbarea vulgaris</i>
CAROVAT	32	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEN	2	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CELOCC	1	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
ELYVIR	2	<i>Elymus virginicus</i>	common eastern wild-rye, Virginia wild-	6	FACW	Native	herb	perennial	0	0	<i>Elymus virginicus</i>
FLOPRO	2	<i>Floerkea proserpinacoides</i>	false mermaid, false mermaid-weed	8	FACW/FAC	Native	herb	annual	0	0	<i>Floerkea proserpinacoides</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	2	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, c	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HESMAT	1	<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
IMPCAP	2	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	4	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>

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SITE NAME:	Grandview Conservancy Spring 2023		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
96	65	31			29.0		3.6		23.9		2.4					
													0%	0%	0%	0%
													:Total Cover			

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCH ARI		<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
ACHMIL		<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG		<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET		<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANEVIR		<i>Anemone virginiana</i>	tall anemone, tall thimbleweed	5	FACU	Native	herb	perennial	0	0	<i>Anemone virginiana</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BARVUL		<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yell	0	FAC	Introduced	herb	biennial/per	0	0	<i>Barbarea vulgaris</i>
BROINE		<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CALCAN		<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARBLA		<i>Carex blanda</i>	common wood sedge, eastern woodlan	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEL		<i>Carex pellita</i>	broad-leaved woolly sedge	4	OBL	Native	herb	perennial	0	0	<i>Carex pellita</i>
CARPEN		<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CARSTR		<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CICMAC		<i>Cicuta maculata</i>	common water-hemlock, spotted water	6	OBL	Native	herb	perennial	0	0	<i>Cicuta maculata</i>
CIRARV		<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRVUL		<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CORFOE		<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER		<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRYCAN		<i>Cryptotaenia canadensis</i>	Canadian honewort, white chervil	4	FAC	Native	herb	perennial	0	0	<i>Cryptotaenia canadensis</i>
DACGLO		<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
DUCIND		<i>Duchesnea indica</i>	false strawberry, Indian strawberry	0	FACU	Introduced	herb	perennial	0	0	<i>Duchesnea indica</i>
ELAUMB		<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ELYVIR		<i>Elymus virginicus</i>	common eastern wild-rye, Virginia wild-	6	FACW	Native	herb	perennial	0	0	<i>Elymus virginicus</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
ERISTR		<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
FLOPRO		<i>Floerkea proserpinacoides</i>	false mermaid, false mermaid-weed	8	FACW/FAC	Native	herb	annual	0	0	<i>Floerkea proserpinacoides</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR		<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GALAPA		<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED		<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, c	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HEMFUL		<i>Hemerocallis fulva</i>	orange daylily	0	UPL	Introduced	herb	perennial	0	Caution	<i>Hemerocallis fulva</i>
HESMAT		<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
IMPCAP		<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR		<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LEOCAR		<i>Leonurus cardiaca</i>	lion's-tail, motherwort	0	0	Introduced	herb	perennial	0	0	<i>Leonurus cardiaca</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
LYSNUM		<i>Lysimachia nummularia</i>	creeping-Charlie, creeping-Jennie, mone	0	FACW	Introduced	herb	perennial	0	Restricted	<i>Lysimachia nummularia</i>
MALPUM		<i>Malus pumila</i>	cultivated apple	0	0	Introduced	tree	perennial	0	0	<i>Malus pumila</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB		<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
ONOSEN		<i>Onoclea sensibilis</i>	sensitive fern	5	FACW	Native	herb	perennial	0	0	<i>Onoclea sensibilis</i>
PACPLA		<i>Packera plattensis</i>	Platte groundsel, prairie groundsel, prai	6	FACU	Native	herb	biennial/per	Special concern	0	<i>Packera plattensis</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT		<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PERVIR		<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/per	0	0	<i>Persicaria virginiana</i>
PHAARU		<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POAPRA		<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PODPPEL		<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POPDEL		<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
POTSIM		<i>Potentilla simplex</i>	common cinquefoil, old-field five-finger	2	FACU	Native	herb	perennial	0	0	<i>Potentilla simplex</i>
PRUSER		<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PRUVIR		<i>Prunus virginiana</i>	chokecherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus virginiana</i>
QUEALB		<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEELL		<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
QUEMAC		<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB		<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RANABO		<i>Ranunculus abortivus</i>	little-leaf buttercup, small-flowered but	1	FACW/FAC	Native	herb	biennial/per	0	0	<i>Ranunculus abortivus</i>
RANHIS		<i>Ranunculus hispidus</i>	bristly buttercup, hispid buttercup, roug	6	FAC	Native	herb	perennial	0	0	<i>Ranunculus hispidus</i>
RANREC		<i>Ranunculus recurvatus</i>	blisterwort, hooked buttercup	5	FACW	Native	herb	perennial	0	0	<i>Ranunculus recurvatus</i>
RHACAT		<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA		<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RIBAME		<i>Ribes americanum</i>	American black currant, eastern black c	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
ROBPSE		<i>Robinia pseudoacacia</i>	black locust	0	FACU	Introduced	tree	perennial	0	Restricted	<i>Robinia pseudoacacia</i>
ROSMUL		<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL		<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC		<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SALDIS		<i>Salix discolor</i>	pussy willow	2	FACW	Native	tree	perennial	0	0	<i>Salix discolor</i>
SALHUM		<i>Salix humilis</i>	prairie willow, upland willow	6	FACU	Native	shrub	perennial	0	0	<i>Salix humilis</i>
SALINT		<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG		<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SAMCAN		<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SCICYP		<i>Scirpus cyperinus</i>	wool-grass	4	OBL	Native	herb	perennial	0	0	<i>Scirpus cyperinus</i>
SCRMAR		<i>Scrophularia marilandica</i>	carpenter's-square, eastern figwort, lat	4	FACU	Native	herb	perennial	0	0	<i>Scrophularia marilandica</i>
SOLCAN		<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SYMLAN		<i>Symphotrichum lanceolatum</i>	panicled aster	4	FAC/FACW	Native	herb	perennial	0	0	<i>Symphotrichum lanceolatum</i>
SYMLAT		<i>Symphotrichum lateriflorum</i>	side-flowering aster	3	FACW/FAC	Native	herb	perennial	0	0	<i>Symphotrichum lateriflorum</i>
TAROFF		<i>Taraxacum officinale</i>	common dandelion	0	FACU	Introduced	herb	perennial	0	0	<i>Taraxacum officinale</i>
THADAS		<i>Thalictrum dasycarpum</i>	purple meadow-rue, tall meadow-rue	4	FACW	Native	herb	perennial	0	0	<i>Thalictrum dasycarpum</i>
TOXRAD		<i>Toxicodendron radicans</i>	common eastern poison-ivy	4	FAC	Native	herb	perennial	0	0	<i>Toxicodendron radicans</i>
TRIPRA		<i>Trifolium pratense</i>	red clover	0	FACU	Introduced	herb	perennial	0	0	<i>Trifolium pratense</i>
TYPANG		<i>Typha angustifolia</i>	narrow-leaved cat-tail	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Typha angustifolia</i>
ULNAME		<i>Ulmus americana</i>	American elm, white elm	3	FACW	Native	tree	perennial	0	0	<i>Ulmus americana</i>
URTDIO		<i>Urtica dioica</i>	stinging nettle	1	FACW/FAC	Native	herb	perennial	0	0	<i>Urtica dioica</i>

[illegible]



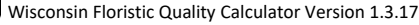
SITE NAME:	Indian Mound/Thrun Marsh Conservancies Spring 2023		PLANT COMMUNITY:	Southern Dry-mesic Forest & Southern Mesic Forest	
ASSESSMENT AREA NAME:	ITMU-1 Southern Dry-mesic Forest & Southern Mesic Forest		SURVEYORS:	John Larson	
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023	
	Longitude:				
COUNTY:	Dane		SITE NOTES:		
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains				

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
61	49	12	29%	13%	29.9	29.2	4.3	4.2	26.8	28.9	3.4	3.7	4.2	1.4	4.0	0.0	
													151%	38%	33%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACEPLA	1	<i>Acer platanoides</i>	Norway maple	0	UPL	Introduced	tree	perennial	0	Caution	<i>Acer platanoides</i>
ALLCAN	1	<i>Allium canadense</i>	meadow garlic, wild garlic, wild onion	4	FACU	Native	herb	biennial/perennial	0	0	<i>Allium canadense</i>
ALLTRI	1	<i>Allium tricoccum</i>	ramp, wild leek	6	FACU	Native	herb	perennial	0	0	<i>Allium tricoccum</i>
ANEQUI	1	<i>Anemone quinquefolia</i>	nightcups, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ANEVIR	1	<i>Anemone virginiana</i>	tall anemone, tall thimbleweed	5	FACU	Native	herb	perennial	0	0	<i>Anemone virginiana</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yellow pinks	0	FAC	Introduced	herb	biennial/perennial	0	0	<i>Barbarea vulgaris</i>
BETPAP	1	<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
CARPEN	3	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CAROVAT	8	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CATSPE	1	<i>Catalpa speciosa</i>	northern catalpa	0	FACU	Introduced	tree	perennial	0	0	<i>Catalpa speciosa</i>
CELOBR	10	<i>Celastrus orbiculatus</i>	Asian bittersweet, Asiatic bittersweet, C. scandens	0	UPL	Introduced	shrub	perennial	0	Restricted	<i>Celastrus orbiculatus</i>
CELOCC	23	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CERCAN	1	<i>Cercis canadensis</i>	Eastern redbud	0	FACU	Introduced	tree	perennial	0	0	<i>Cercis canadensis</i>
CORFOE	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwood	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
ELYHYS	1	<i>Elymus hystrix</i>	bottlebrush grass, eastern bottlebrush grass	6	FACU	Native	herb	perennial	0	0	<i>Elymus hystrix</i>
ELYVIL	1	<i>Elymus villosus</i>	downy wild-rye, hairy wild-rye, silky wild-rye	6	FACU	Native	herb	0	0	0	<i>Elymus villosus</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
FRAPEN	5	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GERMAC	1	<i>Geranium maculatum</i>	Crane's-bill, spotted geranium, wild geranium	4	FACU	Native	herb	perennial	0	0	<i>Geranium maculatum</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HYDVIR	1	<i>Hydrophyllum virginianum</i>	John's-cabbage, Shawnee-salad, Virginia waterhemp	4	FAC	Native	herb	perennial	0	0	<i>Hydrophyllum virginianum</i>
JUGNIG	20	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LIGVUL	1	<i>Ligustrum vulgare</i>	common privet, European privet	0	FACU	Introduced	shrub	perennial	0	Caution	<i>Ligustrum vulgare</i>
LONTAT	5	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MAIRAC	1	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, lady's-ear	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB	1	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
PARQUI	15	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PERVIR	1	<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/perennial	0	0	<i>Persicaria virginiana</i>
PICABI	1	<i>Picea abies</i>	Norway spruce	0	0	Introduced	tree	perennial	0	0	<i>Picea abies</i>
PINRES	1	<i>Pinus resinosa</i>	Canadian pine, Norway pine, red pine	7	FACU	Native	tree	perennial	0	0	<i>Pinus resinosa</i>
PODPEL	2	<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POPTRE	1	<i>Populus tremuloides</i>	aspen, quaking aspen	2	FAC/FAC*	Native	tree	perennial	0	0	<i>Populus tremuloides</i>
PRIMEA	1	<i>Primula meadia</i>	eastern shooting-star, pride-of-Ohio	7	FACU	Native	herb	0	0	0	<i>Primula meadia</i>
PRUSER	6	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
QUEALB	15	<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEELL	1	<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
QUEMAC	5	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB	21	<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RHACAT	4	<i>Rhamnus cathartica</i>	common buckthorn, European buckthorn	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA	1	<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RIBAME	1	<i>Ribes americanum</i>	American black currant, eastern black currant	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
ROSMUL	1	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL	1	<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC	3	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SAMCAN	2	<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra</i> ssp. <i>canadensis</i>
SANGCAN	1	<i>Sanguinaria canadensis</i>	bloodroot	6	FACU	Native	herb	perennial	0	0	<i>Sanguinaria canadensis</i>
SCRMAR	1	<i>Scrophularia marilandica</i>	carpenter's-square, eastern figwort, latifolia	4	FACU	Native	herb	perennial	0	0	<i>Scrophularia marilandica</i>
SMIHER	1	<i>Smilax herbacea</i>	common carrion-flower	5	0	Native	herb	annual	0	0	<i>Smilax herbacea</i>
TILAME	16	<i>Tilia americana</i>	American linden, basswood	5	FACU	Native	tree	perennial	0	0	<i>Tilia americana</i>
TRIREC	1	<i>Trillium recurvatum</i>	bloody butcher, red trillium, reflexed trillium	6	FACU	Native	herb	perennial	0	0	<i>Trillium recurvatum</i>
TOXRAD	1	<i>Toxicodendron radicans</i>	common eastern poison-ivy	4	FAC	Native	herb	perennial	0	0	<i>Toxicodendron radicans</i>

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SITE NAME:	Indian Mound/Thrun Marsh Conservancies Spring 2023		PLANT COMMUNITY:	Southern Hardwood Swamp & Emergent Marsh
ASSESSMENT AREA NAME:	ITMU-2 Southern Hardwood Swamp & Emergent Marsh		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
49	35	14	48%	36%	21.3	19.4	3.6	3.3	18.0	16.9	2.6	2.4	2.6	2.5	1.9	0.0
													63%	42%	30%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACEPLA	2	<i>Acer platanoides</i>	Norway maple	0	UPL	Introduced	tree	perennial	0	Caution	<i>Acer platanoides</i>
ACESACCHARI	5	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
CALCAN	1	<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARBLA	1	<i>Carex blanda</i>	common wood sedge, eastern woodlark	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARSTR	2	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CELOCC	3	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CORSER	10	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRAMOL	1	<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAPEN	15	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GEULAC	1	<i>Geum laciniatum</i>	rough avens	5	FACW	Native	herb	perennial	0	0	<i>Geum laciniatum</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
GLETRI	1	<i>Gleditsia triacanthos</i>	honey locust	7	FACU/FAC	Native	tree	perennial	0	0	<i>Gleditsia triacanthos</i>
HESMAT	1	<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
IMPCAP	1	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	5	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LACSER	1	<i>Lactuca serriola</i>	compass-plant, prickly lettuce	0	FACU	Introduced	herb	annual/bienr	0	0	<i>Lactuca serriola</i>
LONTAT	10	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB	2	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
PARQUI	2	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PHAARU	7	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
POAPRA	1	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
POPDEL	5	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
PRUAME	2	<i>Prunus americana</i>	American plum, wild plum	3	UPL	Native	shrub	perennial	0	0	<i>Prunus americana</i>
PRUVIR	1	<i>Prunus virginiana</i>	chokecherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus virginiana</i>
QUEBIC	1	<i>Quercus bicolor</i>	swamp white oak	7	FACW	Native	tree	perennial	0	0	<i>Quercus bicolor</i>
RHACAT	5	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBAME	3	<i>Ribes americanum</i>	American black currant, eastern black c	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
ROBPSE	1	<i>Robinia pseudoacacia</i>	black locust	0	FACU	Introduced	tree	perennial	0	Restricted	<i>Robinia pseudoacacia</i>
ROSMUL	1	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBOCC	2	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SALALB	10	<i>Salix alba</i>	white willow	0	FACW	Introduced	tree	perennial	0	0	<i>Salix alba</i>
SALINT	1	<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG	1	<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SAMCAN	2	<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SCIATR	1	<i>Scirpus atrovirens</i>	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	<i>Scirpus atrovirens</i>
SYMLAT	1	<i>Symphotrichum lateriflorum</i>	side-flowering aster	3	FACW/FAC	Native	herb	perennial	0	0	<i>Symphotrichum lateriflorum</i>
TAROFF	1	<i>Taraxacum officinale</i>	common dandelion	0	FACU	Introduced	herb	perennial	0	0	<i>Taraxacum officinale</i>
THUOCC	5	<i>Thuja occidentalis</i>	eastern arborvitae, northern white-cedc	9	FACW	Native	tree	perennial	0	0	<i>Thuja occidentalis</i>
VIBLEN	1	<i>Viburnum lentago</i>	nannyberry, sheepberry	4	FAC	Native	shrub	perennial	0	0	<i>Viburnum lentago</i>
VIBOPU	5	<i>Viburnum opulus</i>	cranberry viburnum, European cranberr	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	<i>Viburnum opulus</i>
VIOSOR	2	<i>Viola sororia</i>	door-yard violet, common blue violet, h	3	FAC	Native	herb	annual/peren	0	0	<i>Viola sororia</i>
VITAES	2	<i>Vitis aestivalis</i>	pigeon grape, summer grape	5	FACU	Native	tree	perennial	0	0	<i>Vitis aestivalis</i>
VITRIP	2	<i>Vitis riparia</i>	frost grape, river bank grape	2	FACW/FAC	Native	herb	perennial	0	0	<i>Vitis riparia</i>



SITE NAME:	Indian Mound/Thrun Marsh Conservancies Spring 2023		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
90	70	20			34.3		4.1		30.3		3.2					
													0%	0%	0%	0%
													:Total Cover			

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACEPLA		<i>Acer platanoides</i>	Norway maple	0	UPL	Introduced	tree	perennial	0	Caution	<i>Acer platanoides</i>
ACESACCHARI		<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLCAN		<i>Allium canadense</i>	meadow garlic, wild garlic, wild onion	4	FACU	Native	herb	biennial/perennial	0	0	<i>Allium canadense</i>
ALLPET		<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ALLTRI		<i>Allium tricoccum</i>	ramp, wild leek	6	FACU	Native	herb	perennial	0	0	<i>Allium tricoccum</i>
ANEQUI		<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ANEVIR		<i>Anemone virginiana</i>	tall anemone, tall thimbleweed	5	FACU	Native	herb	perennial	0	0	<i>Anemone virginiana</i>
BARVUL		<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yellow pinks	0	FAC	Introduced	herb	biennial/perennial	0	0	<i>Barbarea vulgaris</i>
BETPAP		<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
CALCAN		<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARBLA		<i>Carex blanda</i>	common wood sedge, eastern woodland sedge	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEN		<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CARSTR		<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CATSPE		<i>Catalpa speciosa</i>	northern catalpa	0	FACU	Introduced	tree	perennial	0	0	<i>Catalpa speciosa</i>
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CELOB		<i>Celastrus orbiculatus</i>	Asian bittersweet, Asiatic bittersweet, C	0	UPL	Introduced	shrub	perennial	0	Restricted	<i>Celastrus orbiculatus</i>
CERCAN		<i>Cercis canadensis</i>	Eastern redbud	0	FACU	Introduced	tree	perennial	0	0	<i>Cercis canadensis</i>
CORFOE		<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER		<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRAMOL		<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
ELYHYS		<i>Elymus hystrix</i>	bottlebrush grass, eastern bottlebrush g	6	FACU	Native	herb	perennial	0	0	<i>Elymus hystrix</i>
ELYVIL		<i>Elymus villosus</i>	downy wild-rye, hairy wild-rye, silky wil	6	FACU	Native	herb	0	0	0	<i>Elymus villosus</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA		<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GERMAC		<i>Geranium maculatum</i>	Crane's-bill, spotted geranium, wild ger	4	FACU	Native	herb	perennial	0	0	<i>Geranium maculatum</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GEULAC		<i>Geum laciniatum</i>	rough avens	5	FACW	Native	herb	perennial	0	0	<i>Geum laciniatum</i>
GLETRI		<i>Gleditsia triacanthos</i>	honey locust	7	FACU/FAC	Native	tree	perennial	0	0	<i>Gleditsia triacanthos</i>
HESMAT		<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
HYDVIR		<i>Hydrophyllum virginianum</i>	John's-cabbage, Shawnee-salad, Virgin	4	FAC	Native	herb	perennial	0	0	<i>Hydrophyllum virginianum</i>
IMPCAP		<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR		<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LACSER		<i>Lactuca serriola</i>	compass-plant, prickly lettuce	0	FACU	Introduced	herb	annual/bienr	0	0	<i>Lactuca serriola</i>
LIGVUL		<i>Ligustrum vulgare</i>	common privet, European privet	0	FACU	Introduced	shrub	perennial	0	Caution	<i>Ligustrum vulgare</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MAIRAC		<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB		<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PERVIR		<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/per	0	0	<i>Persicaria virginiana</i>
PHAARU		<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PICABI		<i>Picea abies</i>	Norway spruce	0	0	Introduced	tree	perennial	0	0	<i>Picea abies</i>
PINRES		<i>Pinus resinosa</i>	Canadian pine, Norway pine, red pine	7	FACU	Native	tree	perennial	0	0	<i>Pinus resinosa</i>
POAPRA		<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PODPEL		<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POPDEL		<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
POPTRE		<i>Populus tremuloides</i>	aspen, quaking aspen	2	FAC/FAC*	Native	tree	perennial	0	0	<i>Populus tremuloides</i>
PRIMEA		<i>Primula meadia</i>	eastern shooting-star, pride-of-Ohio	7	FACU	Native	herb	0	0	0	<i>Primula meadia</i>



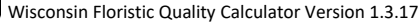
ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
PRUAME		<i>Prunus americana</i>	American plum, wild plum	3	UPL	Native	shrub	perennial	0	0	<i>Prunus americana</i>
PRUSER		<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PRUVIR		<i>Prunus virginiana</i>	chokecherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus virginiana</i>
QUEALB		<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEBIC		<i>Quercus bicolor</i>	swamp white oak	7	FACW	Native	tree	perennial	0	0	<i>Quercus bicolor</i>
QUEELL		<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
QUEMAC		<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB		<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RHACAT		<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA		<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RIBAME		<i>Ribes americanum</i>	American black currant, eastern black c	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
ROBPSE		<i>Robinia pseudoacacia</i>	black locust	0	FACU	Introduced	tree	perennial	0	Restricted	<i>Robinia pseudoacacia</i>
ROSMUL		<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL		<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC		<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SALALB		<i>Salix alba</i>	white willow	0	FACW	Introduced	tree	perennial	0	0	<i>Salix alba</i>
SALINT		<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG		<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SAMCAN		<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SANGCAN		<i>Sanguinaria canadensis</i>	bloodroot	6	FACU	Native	herb	perennial	0	0	<i>Sanguinaria canadensis</i>
SCIATR		<i>Scirpus atrovirens</i>	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	<i>Scirpus atrovirens</i>
SCRMAR		<i>Scrophularia marilandica</i>	carpenter's-square, eastern figwort, lat	4	FACU	Native	herb	perennial	0	0	<i>Scrophularia marilandica</i>
SMIHER		<i>Smilax herbacea</i>	common carrion-flower	5	0	Native	herb	annual	0	0	<i>Smilax herbacea</i>
SYMLAT		<i>Symphotrichum lateriflorum</i>	side-flowering aster	3	FACW/FAC	Native	herb	perennial	0	0	<i>Symphotrichum lateriflorum</i>
TAROFF		<i>Taraxacum officinale</i>	common dandelion	0	FACU	Introduced	herb	perennial	0	0	<i>Taraxacum officinale</i>
THUOCC		<i>Thuja occidentalis</i>	eastern arborvitae, northern white-cedc	9	FACW	Native	tree	perennial	0	0	<i>Thuja occidentalis</i>
TILAME		<i>Tilia americana</i>	American linden, basswood	5	FACU	Native	tree	perennial	0	0	<i>Tilia americana</i>
TOXRAD		<i>Toxicodendron radicans</i>	common eastern poison-ivy	4	FAC	Native	herb	perennial	0	0	<i>Toxicodendron radicans</i>
TRIREC		<i>Trillium recurvatum</i>	bloody butcher, red trillium, reflexed tril	6	FACU	Native	herb	perennial	0	0	<i>Trillium recurvatum</i>
ULNAME		<i>Ulmus americana</i>	American elm, white elm	3	FACW	Native	tree	perennial	0	0	<i>Ulmus americana</i>
UVUGRA		<i>Uvularia grandiflora</i>	large-flowered bellwort	7	0	Native	herb	perennial	0	0	<i>Uvularia grandiflora</i>
VIBLEN		<i>Viburnum lentago</i>	nannyberry, sheepberry	4	FAC	Native	shrub	perennial	0	0	<i>Viburnum lentago</i>
VIBOPU		<i>Viburnum opulus</i>	cranberry viburnum, European cranberr	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	<i>Viburnum opulus</i>
VIOSOR		<i>Viola sororia</i>	door-yard violet, common blue violet, h	3	FAC	Native	herb	annual/peren	0	0	<i>Viola sororia</i>
VITAES		<i>Vitis aestivalis</i>	pigeon grape, summer grape	5	FACU	Native	tree	perennial	0	0	<i>Vitis aestivalis</i>
VITRIP		<i>Vitis riparia</i>	frost grape, river bank grape	2	FACW/FAC	Native	herb	perennial	0	0	<i>Vitis riparia</i>
ZANAME		<i>Zanthoxylum americanum</i>	common prickly-ash, northern prickly-a	3	FACU	Native	shrub	perennial	0	0	<i>Zanthoxylum americanum</i>



SITE NAME:	Marshwoods Conservancy Spring 2023		PLANT COMMUNITY:	Oak Woodland
ASSESSMENT AREA NAME:	MMU-1 Oak Woodland		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
45	34	11	19%	9%	23.7	28.4	4.1	4.9	20.6	30.3	3.1	4.5	5.0	1.8	4.6	0.0	
													136%	25%	53%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ALLCAN	1	<i>Allium canadense</i>	meadow garlic, wild garlic, wild onion	4	FACU	Native	herb	biennial/per	0	0	<i>Allium canadense</i>
ANEQUI	2	<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
BETPAP	1	<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
CARPEN	2	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CAROVAT	75	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CELOCC	2	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CORFOE	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ERYALB	20	<i>Erythronium albidum</i>	small white fawn-lily, white dog-tooth v	7	FACU	Native	herb	perennial	0	0	<i>Erythronium albidum</i>
FLOPRO	1	<i>Floerkea proserpinacoides</i>	false mermaid, false mermaid-weed	8	FACW/FAC	Native	herb	annual	0	0	<i>Floerkea proserpinacoides</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GERMAC	1	<i>Geranium maculatum</i>	Crane's-bill, spotted geranium, wild ger	4	FACU	Native	herb	perennial	0	0	<i>Geranium maculatum</i>

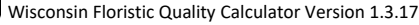
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SITE NAME:		Marshwoods Conservancy Spring 2023		PLANT COMMUNITY:	Surrogate Grassland & Mesic Prairie	
ASSESSMENT AREA NAME:		MMU-2 Surrogate Grassland & Mesic Prairie		SURVEYORS:	Matt Parsons	
GPS COORDINATES	Latitude:					
(Decimal Degrees)	Longitude:			SURVEY DATE:	4/25/2023	
COUNTY:	Dane			SITE NOTES:	This area was recently burned	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains					

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
32	21	11	24%	39%	14.4	13.9	3.1	3.0	11.7	10.5	2.1	1.9	3.6	1.9	1.0	0.0	
													12%	25%	25%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACEGIN	1	<i>Acer ginnala</i>	Amur maple	0	0	Introduced	tree	perennial	0	Restricted	<i>Acer ginnala</i>
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yell	0	FAC	Introduced	herb	biennial/per	0	0	<i>Barbarea vulgaris</i>
BETPAP	1	<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
BROINE	5	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CAROVAT	1	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CORAMO	5	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORFOE	10	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DAUCAR	2	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
JUGNIG	1	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LACSER	1	<i>Lactuca serriola</i>	compass-plant, prickly lettuce	0	FACU	Introduced	herb	annual/bienr	0	0	<i>Lactuca serriola</i>
LONTAT	5	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB	1	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>

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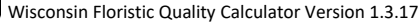


SITE NAME:	Marshwoods Conservancy Spring 2023		PLANT COMMUNITY:	Emergent Marsh, Wet Meadow, S. Sedge Meadow, Shrub-carr, S. Hardwood Swamp
ASSESSMENT AREA NAME:	MMU-3 Wetlands		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	This area was recently burned
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
32	23	9	25%	24%	15.2	14.4	3.2	3.0	12.9	14.7	2.3	2.6	2.6	2.6	2.5	0.0
													41%	34%	30%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	4	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGRGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
CALCAN	3	<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARSTR	5	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CORAMO	5	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORFOE	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
FRAVIR	1	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
IMPCAP	1	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	1	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LONTAT	2	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MORALB	1	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
PARQUI	2	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PHAARU	10	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>

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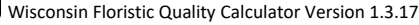
SITE NAME:	Marshwoods Conservancy Spring 2023		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
74	54	20			27.1		3.7		23.1		2.7					
													0%	0%	0%	0%
													:Total Cover			

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACEGIN		<i>Acer ginnala</i>	Amur maple	0	0	Introduced	tree	perennial	0	Restricted	<i>Acer ginnala</i>
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACHMIL		<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG		<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLCAN		<i>Allium canadense</i>	meadow garlic, wild garlic, wild onion	4	FACU	Native	herb	biennial/perennial	0	0	<i>Allium canadense</i>
ALLPET		<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANEQUI		<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BARVUL		<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yellow rocket	0	FAC	Introduced	herb	biennial/perennial	0	0	<i>Barbarea vulgaris</i>
BETPAP		<i>Betula papyrifera</i>	canoe birch, paper birch, white birch	3	FACU	Native	tree	perennial	0	0	<i>Betula papyrifera</i>
BROINE		<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CALCAN		<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEN		<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CARSTR		<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CORAMO		<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORFOE		<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ELAUMB		<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
ERYALB		<i>Erythronium albidum</i>	small white fawn-lily, white dog-tooth v	7	FACU	Native	herb	perennial	0	0	<i>Erythronium albidum</i>
FLOPRO		<i>Floerkea proserpinacoides</i>	false mermaid, false mermaid-weed	8	FACW/FAC	Native	herb	annual	0	0	<i>Floerkea proserpinacoides</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR		<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GALAPA		<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GERMAC		<i>Geranium maculatum</i>	Crane's-bill, spotted geranium, wild gen	4	FACU	Native	herb	perennial	0	0	<i>Geranium maculatum</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HESMAT		<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
IMPCAP		<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LACSER		<i>Lactuca serriola</i>	compass-plant, prickly lettuce	0	FACU	Introduced	herb	annual/bienr	0	0	<i>Lactuca serriola</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB		<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PERVIR		<i>Persicaria virginiana</i>	jumpseed, woodland knotweed	7	FAC	Native	herb	annual/per	0	0	<i>Persicaria virginiana</i>
PHAARU		<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
POAPRA		<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PODPEL		<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POPDEL		<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
POPTRE		<i>Populus tremuloides</i>	aspen, quaking aspen	2	FAC/FAC*	Native	tree	perennial	0	0	<i>Populus tremuloides</i>
PRIMEA		<i>Primula meadia</i>	eastern shooting-star, pride-of-Ohio	7	FACU	Native	herb	0	0	0	<i>Primula meadia</i>
PRUSER		<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
PRUVIR		<i>Prunus virginiana</i>	chokecherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus virginiana</i>
QUEALB		<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEMAC		<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB		<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RHACAT		<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBMIS		<i>Ribes missouriense</i>	Missouri gooseberry	4	0	Native	shrub	perennial	0	0	<i>Ribes missouriense</i>
ROBPSE		<i>Robinia pseudoacacia</i>	black locust	0	FACU	Introduced	tree	perennial	0	Restricted	<i>Robinia pseudoacacia</i>
ROSMUL		<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL		<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>

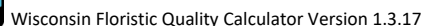
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SITE NAME:	Siggelkow Road Park Spring 2023		PLANT COMMUNITY:	Southern Dry-mesic Forest
ASSESSMENT AREA NAME:	SMU-1 Southern Dry-mesic Forest		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
45	32	13	28%	16%	22.5	26.5	4.0	4.7	18.9	26.3	2.8	3.9	4.8	0.7	3.2	0.0	
													111%	22%	38%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ALLTRI	3	<i>Allium tricoccum</i>	ramp, wild leek	6	FACU	Native	herb	perennial	0	0	<i>Allium tricoccum</i>
ANEQUI	2	<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
ARITRI	1	<i>Arisaema triphyllum</i>	Indian turnip, Jack-in-the-pulpit	5	FACW/FAC	Native	herb	perennial	0	0	<i>Arisaema triphyllum</i>
CARNUT	1	<i>Carduus nutans</i>	musk thistle, nodding plumeless thistle,	0	FACU	Introduced	herb	biennial	0	Restricted	<i>Carduus nutans</i>
CARPEN	1	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CARCOR	1	<i>Carya cordiformis</i>	bitter-nut hickory, pig-nut, yellow-bud h	6	FACU/FAC	Native	tree	perennial	0	0	<i>Carya cordiformis</i>
CAROVAT	8	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CELOCC	26	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
GRAMOL	1	<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
FRAAME	1	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN	3	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>

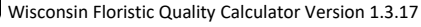
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SITE NAME:	Taylor Road Conservancy Spring 2023		PLANT COMMUNITY:	Conifer Plantation
ASSESSMENT AREA NAME:	TMU-1 Conifer Plantation		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
25	17	8	55%	31%	16.0	22.9	3.9	5.6	13.2	20.8	2.6	4.2	5.4	1.3	1.8	0.0	
													123%	44%	12%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
CAROVAT	7	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEN	1	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CELOCC	1	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
FRAAME	2	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN	8	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, g	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
LONTAT	10	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MORALB	8	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
PARQUI	1	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PINRES	75	<i>Pinus resinosa</i>	Canadian pine, Norway pine, red pine	7	FACU	Native	tree	perennial	0	0	<i>Pinus resinosa</i>
PRUSER	15	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
RANABO	1	<i>Ranunculus abortivus</i>	little-leaf buttercup, small-flowered but	1	FACW/FAC	Native	herb	biennial/per	0	0	<i>Ranunculus abortivus</i>

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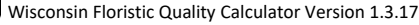


SITE NAME:	Taylor Road Conservancy Spring 2023		PLANT COMMUNITY:	Invaded Surrogate Grassland
ASSESSMENT AREA NAME:	TMU-2 (A/B) Invaded Surrogate Grassland		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
30	16	14	66%	41%	11.3	10.8	2.8	2.7	8.2	8.8	1.5	1.6	2.9	1.7	0.4	0.0
													62%	28%	72%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ANEQUI	1	<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BROINE	15	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CENSTO	1	<i>Centaurea stoebe</i>	Spotted knapweed	0	0	Introduced	herb	biennial/per	0	Restricted	<i>Centaurea stoebe</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAAME	1	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HESMAT	1	<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
JUGNIG	55	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LONTAT	3	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MELOFF	1	<i>Melilotus officinalis</i>	yellow sweet-clover	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	<i>Melilotus officinalis</i>
MONFIS	2	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>

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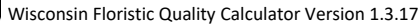


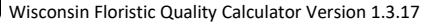
SITE NAME:	Taylor Road Conservancy Spring 2023		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
44	27	17			18.5		3.6		14.5		2.2					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ALLPET		<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANEQUI		<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BROINE		<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEN		<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CELOCC		<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CENSTO		<i>Centaurea stoebe</i>	Spotted knapweed	0	0	Introduced	herb	biennial/perennial	0	Restricted	<i>Centaurea stoebe</i>
CIRVUL		<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAAME		<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED		<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, c	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>

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RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
10	6	4	30%	79%	5.3	6.4	2.2	2.6	4.1	1.7	1.3	0.6	0.0	0.7	0.5	0.0	
													0%	3%	35%	0%	:Total Cover

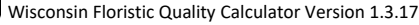
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SITE NAME:	Urso Park Spring 2023		PLANT COMMUNITY:	Southern Hardwood Swamp
ASSESSMENT AREA NAME:	Southern Hardwood Swamp		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	4/25/2023
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
37	29	8	38%	24%	15.8	20.4	2.9	3.8	14.0	17.4	2.3	2.9	4.5	1.0	1.3	0.0	
													78%	26%	52%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCHARI	3	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
AGRGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	3	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
CALCAN	1	<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARPEN	1	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CARSTR	1	<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CAROVAT	12	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CORFOE	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
EQUARV	1	<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAVIR	1	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
FRAPEN	3	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>

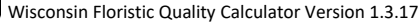
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SITE NAME:	Urso Park Spring 2023		PLANT COMMUNITY:	Shrub-carr
ASSESSMENT AREA NAME:	UMU-1 Shrub-carr (East)		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	4/25/2023
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
35	27	8	31%	30%	18.7	17.2	3.6	3.3	16.4	13.8	2.8	2.3	3.8	2.7	1.4	0.0	
													14%	48%	42%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yellk	0	FAC	Introduced	herb	biennial/per	0	0	<i>Barbarea vulgaris</i>
CARLAC	1	<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CORAMO	10	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORFOE	2	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	25	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
ELYVIR	1	<i>Elymus virginicus</i>	common eastern wild-rye, Virginia wild-	6	FACW	Native	herb	perennial	0	0	<i>Elymus virginicus</i>
ERISTR	1	<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GEULAC	1	<i>Geum laciniatum</i>	rough avens	5	FACW	Native	herb	perennial	0	0	<i>Geum laciniatum</i>
GLYSTR	1	<i>Glyceria striata</i>	fowl manna grass, fowl meadow grass	4	OBL	Native	herb	perennial	0	0	<i>Glyceria striata</i>
IMPCAP	1	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	2	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNDUD	1	<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
LONTAT	1	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>

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SITE NAME:	Urso Park Spring 2023		PLANT COMMUNITY:	Shrub-carr
ASSESSMENT AREA NAME:	UMU-1 Shrub-carr (North)		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	4/25/2023
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
33	21	12	45%	31%	12.4	13.0	2.7	2.8	9.9	11.3	1.7	2.0	3.3	1.4	0.8	0.0	
													58%	45%	43%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	5	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACHMIL	1	<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGRY	2	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
AGRGIG	3	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
CAROVAT	3	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CORFOE	10	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	5	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAPEN	7	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, c	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HESMAT	2	<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
JUGNIG	5	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LONTAT	8	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>

[illegible]



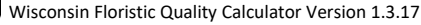
SITE NAME:	Urso Park Spring 2023		PLANT COMMUNITY:	Wet Meadow
ASSESSMENT AREA NAME:	UMU-1 Wet Meadow (North)		SURVEYORS:	John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
19	12	7	45%	70%	8.7	9.7	2.5	2.8	6.9	3.6	1.6	0.8	2.7	1.8	0.4	0.0
													3%	15%	46%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CALCAN	1	<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CIRARV	1	<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CORFOE	2	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
ELAUMB	1	<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ERISTR	1	<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, c	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
JUGNIG	2	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LONTAT	4	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
PASSAT	1	<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PHAARU	35	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
ROSMUL	2	<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
SAMCAN	1	<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SCICYP	1	<i>Scirpus cyperinus</i>	wool-grass	4	OBL	Native	herb	perennial	0	0	<i>Scirpus cyperinus</i>
SOLCAN	1	<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
TYPLAT	1	<i>Typha latifolia</i>	broad-leaved cat-tail, common cat-tail	1	OBL	Native	herb	perennial	0	0	<i>Typha latifolia</i>
URTDIO	1	<i>Urtica dioica</i>	stinging nettle	1	FACW/FAC	Native	herb	perennial	0	0	<i>Urtica dioica</i>

[illegible]



RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wTC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C TC _n	Weighted Mean C wTC _n	FQI _a	w FQI _a	Mean C TC _a	Weighted Mean C wTC _a	Tree	Shrub	Herb	Aquatic	
9	7	2	51%	76%	9.4	10.9	3.6	4.1	8.3	3.0	2.8	1.0	6.4	0.0	0.4	0.0	
													7%	0%	60%	0%	:Total Cover

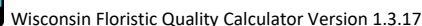
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SITE NAME:	Urso Park Spring 2023		PLANT COMMUNITY:	Oak Woodland
ASSESSMENT AREA NAME:	UMU-2 Oak Woodland		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	4/25/2023
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
36	26	10	27%	21%	17.5	20.8	3.4	4.1	14.8	20.4	2.5	3.4	4.8	1.8	2.2	0.0	
													65%	33%	29%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	1	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCHARI	1	<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
AGRGRY	2	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ARGGIG	1	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANEQUI	2	<i>Anemone quinquefolia</i>	nightcups, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
CARPEN	4	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CAROVAT	25	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CORFOE	5	<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER	5	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRAMOL	1	<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
FRAPEN	1	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR	1	<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
LONTAT	2	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
PARQUI	2	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>

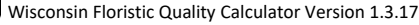
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SITE NAME:	Urso Park Spring 2023		PLANT COMMUNITY:	Orchard, Pasture, & Conifer Plantation
ASSESSMENT AREA NAME:	UMU-3 Orchard & Conifer Plantation		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:			
	Longitude:		SURVEY DATE:	4/25/2023
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic	
29	11	18	92%	56%	9.9	10.3	3.0	3.1	6.1	7.9	1.1	1.5	2.1	1.8	0.3	0.0	
													85%	25%	55%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	15	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGRGIG	2	<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BARVUL	1	<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yellow rocket	0	FAC	Introduced	herb	biennial/perennial	0	0	<i>Barbarea vulgaris</i>
BROINE	2	<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
DACGLO	2	<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DAUCAR	1	<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ERIANN	1	<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
FRAPEN	5	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, ground helleborine	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
JUGNIG	10	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
LOLARU	1	<i>Lolium arundinaceum</i>	reed fescue, rye grass, tall fescue	0	FACU	Introduced	herb	0	0	0	<i>Schedonorus arundinaceus</i>
LONTAT	5	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MALPUM	20	<i>Malus pumila</i>	cultivated apple	0	0	Introduced	tree	perennial	0	0	<i>Malus pumila</i>
PASSAT	2	<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>

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SITE NAME:	Urso Park Spring 2023		PLANT COMMUNITY:	
ASSESSMENT AREA NAME:	Site-wide		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
89	62	27			26.5		3.4		22.2		2.3					
													0%	0%	0%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG		<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
ACESACCHARI		<i>Acer saccharinum</i>	silver maple, soft maple	2	FACW	Native	tree	perennial	0	0	<i>Acer saccharinum</i>
ACHMIL		<i>Achillea millefolium</i>	common yarrow, milfoil	1	FACU	Native	herb	perennial	0	0	<i>Achillea millefolium</i>
AGRGIG		<i>Agrostis gigantea</i>	redtop	0	FACW	Introduced	herb	perennial	0	0	<i>Agrostis gigantea</i>
AGRGRY		<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET		<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ANEQUI		<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ARCMIN		<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
BARVUL		<i>Barbarea vulgaris</i>	garden yellow-rocket, winter-cress, yell	0	FAC	Introduced	herb	biennial/per	0	0	<i>Barbarea vulgaris</i>
BROINE		<i>Bromus inermis</i>	Hungarian brome, smooth brome	0	FACU/UPL	Introduced	herb	perennial	0	Non-Restricted	<i>Bromus inermis</i>
CALCAN		<i>Calamagrostis canadensis</i>	blue-joint grass	5	OBL	Native	herb	perennial	0	0	<i>Calamagrostis canadensis</i>
CARLAC		<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>
CAROVAT		<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CARPEN		<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CARSTR		<i>Carex stricta</i>	tussock sedge	7	OBL	Native	herb	perennial	0	0	<i>Carex stricta</i>
CIRARV		<i>Cirsium arvense</i>	Canada thistle, creeping thistle, field thi	0	FACU	Introduced	herb	perennial	0	Restricted	<i>Cirsium arvense</i>
CIRVUL		<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
CORAMO		<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORFOE		<i>Cornus foemina</i>	gray dogwood, northern swamp dogwo	2	FAC	Native	shrub	perennial	0	0	<i>Cornus racemosa</i>
CORSER		<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
CRAMOL		<i>Crataegus mollis</i>	downy hawthorn	2	FAC	Native	tree	perennial	0	0	<i>Crataegus mollis</i>
DACGLO		<i>Dactylis glomerata</i>	orchard grass	0	FACU	Introduced	herb	perennial	0	0	<i>Dactylis glomerata</i>
DAUCAR		<i>Daucus carota</i>	Queen Anne's-lace, wild carrot	0	UPL	Introduced	herb	biennial	0	Non-Restricted	<i>Daucus carota</i>
ELAUMB		<i>Elaeagnus umbellata</i>	autumn olive	0	0	Introduced	shrub	perennial	0	Restricted	<i>Elaeagnus umbellata</i>
ELEERY		<i>Eleocharis erythropoda</i>	bald spike-rush	3	0	Native	herb	perennial	0	0	<i>Eleocharis erythropoda</i>
ELYVIR		<i>Elymus virginicus</i>	common eastern wild-rye, Virginia wild-	6	FACW	Native	herb	perennial	0	0	<i>Elymus virginicus</i>
EQUARV		<i>Equisetum arvense</i>	common horsetail, field horsetail	1	FAC	Native	herb	perennial	0	0	<i>Equisetum arvense</i>
ERIANN		<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	0	FACU	Native	herb	annual	0	0	<i>Erigeron annuus</i>
ERISTR		<i>Erigeron strigosus</i>	daisy fleabane, prairie fleabane, rough j	2	FACU	Native	herb	annual	0	0	<i>Erigeron strigosus</i>
FRAPEN		<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
FRAVIR		<i>Fragaria virginiana</i>	thick-leaved wild strawberry, Virginia st	1	FACU	Native	herb	perennial	0	0	<i>Fragaria virginiana</i>
GALAPA		<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GEUCAN		<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GEULAC		<i>Geum laciniatum</i>	rough avens	5	FACW	Native	herb	perennial	0	0	<i>Geum laciniatum</i>
GLEHED		<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, c	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
GLYSTR		<i>Glyceria striata</i>	fowl manna grass, fowl meadow grass	4	OBL	Native	herb	perennial	0	0	<i>Glyceria striata</i>
HACVIR		<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HESMAT		<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
IMPCAP		<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-nc	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG		<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNDUD		<i>Juncus dudleyi</i>	Dudley's rush	4	FACW	Native	herb	perennial	0	0	<i>Juncus dudleyi</i>
JUNVIR		<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LOLARU		<i>Lolium arundinaceum</i>	reed fescue, rye grass, tall fescue	0	FACU	Introduced	herb	0	0	0	<i>Schedonorus arundinaceus</i>
LONTAT		<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MALPUM		<i>Malus pumila</i>	cultivated apple	0	0	Introduced	tree	perennial	0	0	<i>Malus pumila</i>
MONFIS		<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB		<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
ONOSEN		<i>Onoclea sensibilis</i>	sensitive fern	5	FACW	Native	herb	perennial	0	0	<i>Onoclea sensibilis</i>
PARQUI		<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
PASSAT		<i>Pastinaca sativa</i>	wild parsnip	0	0	Introduced	herb	biennial	0	Restricted	<i>Pastinaca sativa</i>
PHAARU		<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
PICABI		<i>Picea abies</i>	Norway spruce	0	0	Introduced	tree	perennial	0	0	<i>Picea abies</i>
PINRES		<i>Pinus resinosa</i>	Canadian pine, Norway pine, red pine	7	FACU	Native	tree	perennial	0	0	<i>Pinus resinosa</i>
PLARUG		<i>Plantago rugelii</i>	American plantain, black-seeded planta	0	FAC	Native	herb	perennial	0	0	<i>Plantago rugelii</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
POAPRA		<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
POPALB		<i>Populus alba</i>	silver poplar, white poplar	0	0	Introduced	tree	perennial	0	Restricted	<i>Populus alba</i>
POPDEL		<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
PRUSER		<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
QUEALB		<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEELL		<i>Quercus ellipsoidalis</i>	Hill's oak, northern pin oak	5	0	Native	tree	perennial	0	0	<i>Quercus ellipsoidalis</i>
QUEMAC		<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUERUB		<i>Quercus rubra</i>	northern red oak	5	FACU	Native	tree	perennial	0	0	<i>Quercus rubra</i>
RHACAT		<i>Rhamnus cathartica</i>	common buckthorn, European buckthorn	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBMIS		<i>Ribes missouriense</i>	Missouri gooseberry	4	0	Native	shrub	perennial	0	0	<i>Ribes missouriense</i>
ROSMUL		<i>Rosa multiflora</i>	multiflora rose	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Rosa multiflora</i>
RUBALL		<i>Rubus allegheniensis</i>	common blackberry	2	FACU	Native	shrub	perennial	0	0	<i>Rubus allegheniensis</i>
RUBOCC		<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SALAMY		<i>Salix amygdaloides</i>	peach-leaved willow	4	FACW	Native	tree	perennial	0	0	<i>Salix amygdaloides</i>
SALBEB		<i>Salix bebbiana</i>	beaked willow, Bebb's willow	7	FACW	Native	tree	perennial	0	0	<i>Salix bebbiana</i>
SALDIS		<i>Salix discolor</i>	pussy willow	2	FACW	Native	tree	perennial	0	0	<i>Salix discolor</i>
SALINT		<i>Salix interior</i>	sandbar willow	2	FACW	Native	shrub	perennial	0	0	<i>Salix interior</i>
SALNIG		<i>Salix nigra</i>	black willow	4	OBL	Native	tree	perennial	0	0	<i>Salix nigra</i>
SAMCAN		<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SCIATR		<i>Scirpus atrovirens</i>	black bulrush, dark-green bulrush	3	OBL	Native	herb	perennial	0	0	<i>Scirpus atrovirens</i>
SCICYP		<i>Scirpus cyperinus</i>	wool-grass	4	OBL	Native	herb	perennial	0	0	<i>Scirpus cyperinus</i>
SOLCAN		<i>Solidago canadensis</i>	Canadian goldenrod	1	FACU	Native	herb	perennial	0	0	<i>Solidago canadensis</i>
SYMLAN		<i>Symphotrichum lanceolatum</i>	panicled aster	4	FAC/FACW	Native	herb	perennial	0	0	<i>Symphotrichum lanceolatum</i>
SYMLAT		<i>Symphotrichum lateriflorum</i>	side-flowering aster	3	FACW/FAC	Native	herb	perennial	0	0	<i>Symphotrichum lateriflorum</i>
TAROFF		<i>Taraxacum officinale</i>	common dandelion	0	FACU	Introduced	herb	perennial	0	0	<i>Taraxacum officinale</i>
TORJAP		<i>Torilis japonica</i>	erect hedge-parsley, Japanese hedge-pc	0	0	Introduced	herb	annual	0	Prohibited/Restricted	<i>Torilis japonica</i>
TOXRAD		<i>Toxicodendron radicans</i>	common eastern poison-ivy	4	FAC	Native	herb	perennial	0	0	<i>Toxicodendron radicans</i>
TYPANG		<i>Typha angustifolia</i>	narrow-leaved cat-tail	0	OBL	Introduced	herb	perennial	0	Restricted	<i>Typha angustifolia</i>
TYPLAT		<i>Typha latifolia</i>	broad-leaved cat-tail, common cat-tail	1	OBL	Native	herb	perennial	0	0	<i>Typha latifolia</i>
ULNAME		<i>Ulmus americana</i>	American elm, white elm	3	FACW	Native	tree	perennial	0	0	<i>Ulmus americana</i>
URTDIO		<i>Urtica dioica</i>	stinging nettle	1	FACW/FAC	Native	herb	perennial	0	0	<i>Urtica dioica</i>
VIBLEN		<i>Viburnum lentago</i>	nannyberry, sheepberry	4	FAC	Native	shrub	perennial	0	0	<i>Viburnum lentago</i>
VIBOPU		<i>Viburnum opulus</i>	cranberry viburnum, European cranberry	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	<i>Viburnum opulus</i>
VIOSOR		<i>Viola sororia</i>	door-yard violet, common blue violet, h	3	FAC	Native	herb	annual/perennial	0	0	<i>Viola sororia</i>
VITRIP		<i>Vitis riparia</i>	frost grape, river bank grape	2	FACW/FAC	Native	herb	perennial	0	0	<i>Vitis riparia</i>



SITE NAME:	Woodland Commons Conservancy Spring 2023		PLANT COMMUNITY:	Southern Dry-mesic Forest
ASSESSMENT AREA NAME:	WMU-1 Southern Dry-mesic Forest		SURVEYORS:	Matt Parsons, John Larson
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:			
COUNTY:	Dane		SITE NOTES:	
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wT _a By Growth Form:				
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C T _n	Weighted Mean C wT _n	FQI _a	w FQI _a	Mean C T _a	Weighted Mean C wT _a	Tree	Shrub	Herb	Aquatic	
54	40	14	55%	24%	23.7	24.6	3.8	3.9	20.4	23.1	2.8	3.1	4.1	1.5	2.2	0.0	
													136%	63%	31%	0%	:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ACENEG	3	<i>Acer negundo</i>	ash-leaved maple, box elder	0	FAC	Native	tree	perennial	0	0	<i>Acer negundo</i>
AGRGRY	1	<i>Agrimonia gryposepala</i>	common agrimony, tall hairy agrimony	2	FACU	Native	herb	perennial	0	0	<i>Agrimonia gryposepala</i>
ALLPET	1	<i>Alliaria petiolata</i>	garlic mustard	0	FAC/FACU	Introduced	herb	biennial	0	Restricted	<i>Alliaria petiolata</i>
ALLTRI	1	<i>Allium tricoccum</i>	ramp, wild leek	6	FACU	Native	herb	perennial	0	0	<i>Allium tricoccum</i>
ANEQUI	1	<i>Anemone quinquefolia</i>	nightcaps, wood anemone	6	FAC/FACU	Native	herb	perennial	0	0	<i>Anemone quinquefolia</i>
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
CARBLA	1	<i>Carex blanda</i>	common wood sedge, eastern woodland	3	FAC	Native	herb	perennial	0	0	<i>Carex blanda</i>
CARPEN	2	<i>Carex pensylvanica</i>	common oak sedge, Pennsylvania sedge	3	0	Native	herb	perennial	0	0	<i>Carex pensylvanica</i>
CAROVAT	1	<i>Carya ovata</i>	shagbark hickory, shellbark hickory	5	FACU	Native	tree	perennial	0	0	<i>Carya ovata</i>
CELOCC	3	<i>Celtis occidentalis</i>	northern hackberry	4	FAC	Native	tree	perennial	0	0	<i>Celtis occidentalis</i>
CENSTO	1	<i>Centaurea stoebe</i>	Spotted knapweed	0	0	Introduced	herb	biennial/perennial	0	Restricted	<i>Centaurea stoebe</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CONMAJ	1	<i>Convallaria majalis</i>	European lily-of-the-valley, lily-of-the-valley	0	0	Introduced	herb	0	0	Non-Restricted	<i>Convallaria majalis</i>
CORAMO	1	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
FRAAME	3	<i>Fraxinus americana</i>	white ash	5	FACU	Native	tree	perennial	0	0	<i>Fraxinus americana</i>
FRAPEN	10	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>



ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
GALAPA	1	<i>Galium aparine</i>	annual bedstraw, cleavers, goose-grass,	2	FACU	Native	herb	annual	0	0	<i>Galium aparine</i>
GERMAC	1	<i>Geranium maculatum</i>	Crane's-bill, spotted geranium, wild geranium	4	FACU	Native	herb	perennial	0	0	<i>Geranium maculatum</i>
GEUCAN	1	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
GLEHED	1	<i>Glechoma hederacea</i>	creeping-Charlie, gill-over-the-ground, c	0	FACU	Introduced	herb	perennial	0	Caution	<i>Glechoma hederacea</i>
HACVIR	1	<i>Hackelia virginiana</i>	beggar's-lice, stickseed, wild comfrey	3	FACU	Native	herb	biennial	0	0	<i>Hackelia virginiana</i>
HESMAT	1	<i>Hesperis matronalis</i>	dame's rocket	0	FACU	Introduced	herb	biennial/per	0	Restricted	<i>Hesperis matronalis</i>
JUGNIG	10	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LONRET	1	<i>Lonicera reticulata</i>	grape honeysuckle, yellow honeysuckle	6	0	Native	shrub	perennial	0	0	<i>Lonicera reticulata</i>
LONTAT	7	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
MAIRAC	1	<i>Maianthemum racemosum</i>	false Solomon's-seal, false spikenard, la	5	FACU	Native	herb	perennial	0	0	<i>Maianthemum racemosum</i>
MELOFF	1	<i>Melilotus officinalis</i>	yellow sweet-clover	0	FACU	Introduced	herb	annual/bienr	0	Non-Restricted	<i>Melilotus officinalis</i>
MONFIS	1	<i>Monarda fistulosa</i>	bee balm, wild bergamot	3	FACU	Native	herb	perennial	0	0	<i>Monarda fistulosa</i>
MORALB	2	<i>Morus alba</i>	Russian mulberry, white mulberry	0	FAC/FACU	Introduced	tree	perennial	0	Restricted	<i>Morus alba</i>
PARQUI	5	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	5	FACU	Native	tree	perennial	0	0	<i>Parthenocissus quinquefolia</i>
POAPRA	1	<i>Poa pratensis</i>	Kentucky bluegrass	0	FAC/FACU	Introduced	herb	perennial	0	0	<i>Poa pratensis</i>
PODPEL	3	<i>Podophyllum peltatum</i>	May-apple, wild mandrake	4	FACU	Native	herb	perennial	0	0	<i>Podophyllum peltatum</i>
POPDEL	5	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
POPGRA	1	<i>Populus grandidentata</i>	big-tooth aspen, large-toothed aspen	3	FACU	Native	tree	perennial	0	0	<i>Populus grandidentata</i>
PRUSER	42	<i>Prunus serotina</i>	wild black cherry	3	FACU	Native	tree	perennial	0	0	<i>Prunus serotina</i>
QUEALB	30	<i>Quercus alba</i>	white oak	7	FACU	Native	tree	perennial	0	0	<i>Quercus alba</i>
QUEMAC	5	<i>Quercus macrocarpa</i>	bur oak	5	FAC/FACU	Native	tree	perennial	0	0	<i>Quercus macrocarpa</i>
QUEVEL	9	<i>Quercus velutina</i>	black oak	5	0	Native	tree	perennial	0	0	<i>Quercus velutina</i>
RANABO	1	<i>Ranunculus abortivus</i>	little-leaf buttercup, small-flowered but	1	FACW/FAC	Native	herb	biennial/per	0	0	<i>Ranunculus abortivus</i>
RHACAT	31	<i>Rhamnus cathartica</i>	common buckthorn, European buckthor	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RHUGLA	10	<i>Rhus glabra</i>	smooth sumac	2	0	Native	shrub	perennial	0	0	<i>Rhus glabra</i>
RIBAME	1	<i>Ribes americanum</i>	American black currant, eastern black c	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>
RUBOCC	1	<i>Rubus occidentalis</i>	black-cap, black raspberry	2	0	Native	shrub	perennial	0	0	<i>Rubus occidentalis</i>
SAMCAN	1	<i>Sambucus canadensis</i>	American elder, elderberry	3	FAC/FACW	Native	shrub	perennial	0	0	<i>Sambucus nigra ssp. canadensis</i>
SYMLAT	1	<i>Symphotrichum lateriflorum</i>	side-flowering aster	3	FACW/FAC	Native	herb	perennial	0	0	<i>Symphotrichum lateriflorum</i>
TAROFF	1	<i>Taraxacum officinale</i>	common dandelion	0	FACU	Introduced	herb	perennial	0	0	<i>Taraxacum officinale</i>
TILAME	1	<i>Tilia americana</i>	American linden, basswood	5	FACU	Native	tree	perennial	0	0	<i>Tilia americana</i>
TOXRAD	1	<i>Toxicodendron radicans</i>	common eastern poison-ivy	4	FAC	Native	herb	perennial	0	0	<i>Toxicodendron radicans</i>
VIBOPU	5	<i>Viburnum opulus</i>	cranberry viburnum, European cranberr	8	FAC/FACW	Introduced	shrub	perennial	0	Non-Restricted	<i>Viburnum opulus</i>
VIOSOR	1	<i>Viola sororia</i>	door-yard violet, common blue violet, h	3	FAC	Native	herb	annual/per	0	0	<i>Viola sororia</i>
VITAES	5	<i>Vitis aestivalis</i>	pigeon grape, summer grape	5	FACU	Native	tree	perennial	0	0	<i>Vitis aestivalis</i>
VITRIP	2	<i>Vitis riparia</i>	frost grape, river bank grape	2	FACW/FAC	Native	herb	perennial	0	0	<i>Vitis riparia</i>

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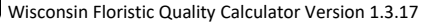


SITE NAME:	Yahara River Conservancy Spring 2023		PLANT COMMUNITY:	Floodplain Forest & Emergent Marsh
ASSESSMENT AREA NAME:	YMU-1 Floodplain Forest & Emergent Marsh		SURVEYORS:	Matt Parsons
GPS COORDINATES (Decimal Degrees)	Latitude:		SURVEY DATE:	4/25/2023
	Longitude:		SITE NOTES:	
COUNTY:	Dane			
ECOREGION (LEVEL III):	Southeastern Wisconsin Till Plains			

RESULTS:		Non-Natives			Floristic Quality Metrics: Native Species (n)				Floristic Quality Metrics: All Species (a)				wC _a By Growth Form:			
N _a	N _n	N _{int.}	Non-Native Total Cover:	Non-Native Relative Cover	FQI _n	w FQI _n	Mean C C _n	Weighted Mean C wC _n	FQI _a	w FQI _a	Mean C C _a	Weighted Mean C wC _a	Tree	Shrub	Herb	Aquatic
24	17	7	58%	34%	13.3	10.1	3.2	2.5	11.2	7.9	2.3	1.6	2.2	1.7	0.6	0.0
													85%	36%	50%	0%

:Total Cover

ENTER SPECIES CODE:	ENTER % COVER:	Scientific Name	Common Name	C-Value	Wetland Ind. Status (MW/NCNE)	WI Status	Growth Form	Duration	NHI Status	Invasive (NR40) Status	Accepted ITIS Name
ARCMIN	1	<i>Arctium minus</i>	common burdock, lesser burdock	0	FACU	Introduced	herb	biennial	0	0	<i>Arctium minus</i>
CARLAC	1	<i>Carex lacustris</i>	common lake sedge	6	OBL	Native	herb	perennial	0	0	<i>Carex lacustris</i>
CIRVUL	1	<i>Cirsium vulgare</i>	bull thistle	0	FACU	Introduced	herb	biennial	0	0	<i>Cirsium vulgare</i>
CORAMO	5	<i>Cornus amomum</i>	knob-styled dogwood, silky dogwood	4	FACW	Native	shrub	perennial	0	0	<i>Cornus amomum</i>
CORSER	7	<i>Cornus sericea</i>	red osier dogwood	3	FACW	Native	shrub	perennial	0	0	<i>Cornus sericea</i>
FRAPEN	6	<i>Fraxinus pennsylvanica</i>	green ash, red ash	2	FACW	Native	tree	perennial	0	0	<i>Fraxinus pennsylvanica</i>
GEUCAN	2	<i>Geum canadense</i>	white avens	2	FAC	Native	herb	perennial	0	0	<i>Geum canadense</i>
IMPCAP	1	<i>Impatiens capensis</i>	orange jewelweed, orange touch-me-not	2	FACW	Native	herb	annual	0	0	<i>Impatiens capensis</i>
JUGNIG	1	<i>Juglans nigra</i>	black walnut	3	FACU	Native	tree	perennial	0	0	<i>Juglans nigra</i>
JUNVIR	1	<i>Juniperus virginiana</i>	eastern red-cedar	3	FACU	Native	tree	perennial	0	0	<i>Juniperus virginiana</i>
LEOCAR	1	<i>Leonurus cardiaca</i>	lion's-tail, motherwort	0	0	Introduced	herb	perennial	0	0	<i>Leonurus cardiaca</i>
LONTAT	8	<i>Lonicera tatarica</i>	Tartarian honeysuckle	0	FACU	Introduced	shrub	perennial	0	Restricted	<i>Lonicera tatarica</i>
PHAARU	35	<i>Phalaris arundinacea</i>	reed canary grass	0	FACW	Introduced	herb	perennial	0	Non-restricted	<i>Phalaris arundinacea</i>
POPDEL	60	<i>Populus deltoides</i>	eastern cottonwood	2	FAC	Native	tree	perennial	0	0	<i>Populus deltoides</i>
RHACAT	10	<i>Rhamnus cathartica</i>	common buckthorn, European buckthorn	0	FAC	Introduced	shrub	perennial	0	Restricted	<i>Rhamnus cathartica</i>
RIBAME	2	<i>Ribes americanum</i>	American black currant, eastern black currant	4	FACW	Native	shrub	perennial	0	0	<i>Ribes americanum</i>

Page 2 of 7
Page 387 of 397

**VILLAGE OF
McFarland**
SUMMARY SHEET

MEETING DATE: Monday, June 12, 2023

SECTION: Business

DEPARTMENT: Public Works

CONTACT: Sayer Larson, Parks Superintendent, Matt Schuenke, Village Administrator

AGENDA ITEM: Update regarding the 2023 McDaniel Park Beach Improvements Project.

PREVIOUS ACTION:

The former Parks, Recreation, and Natural Resources Committee reviewed a presentation on this project at its meeting on February 24, 2022.

The Parks and Recreation Committee reviewed the project again at its meeting on September 6, 2022.

The Sustainability and Natural Resources Committee reviewed the project at its meeting on September 12, 2022.

The Parks & Recreation committee recommended approval to the Village Board for the McDaniel Park site improvements at their October 4, 2022 meeting.

The Village Board recommended approval for the McDaniel Park site improvements at their October 25, 2022 meeting.

The Parks & Recreation committee recommended approval to the Village Board for the design and bidding services for McDaniel Park site improvements at their November 1, 2022 meeting.

The Sustainability and Natural Resources Committee recommended approval to the Village Board regarding this proposal at their meeting on November 14, 2022.

The Village Board recommended approval at their meeting on November 22, 2022.

The Parks & Recreation committee recommended approval to the Village Board regarding Town and Country's design as presented and authorized the project for bid at their February 7, 2023 meeting.

The Sustainability and Natural Resources Committee recommended approval to the Village Board regarding the Town and Country's design as presented and authorized the project for bid at their February 13, 2023 meeting.



The Village Board recommended approval at their meeting on February 14, 2023.

The Sustainability and Natural Resources Committee recommended to the Village Board the award contract to R & T Voegeli Excavating, LLC of Monroe for an amount of \$154,896 for the 2023 McDaniel Park beach improvements project including base bid with additional expenses for engineering and contingency for a total project cost in an amount of \$200,000 at their meeting March 13, 2023.

The Village Board awarded the contract at their meeting on March 14, 2023.

The Parks and Recreation Committee discussed the matter at their meeting on May 2, 2023 offering support for the project while acknowledging the challenges of the situation.

The Sustainability and Natural Resources Committee discussed the matter at their meeting on May 8, 2023 noting their prior support for the project may have changed as a result of this information and that the scope of the project seems to have evolved beyond what was intended.

The Village Board voted to terminate the contracts with the Village contractor and Dane County at its meeting on May 23, 2023.

ISSUE SUMMARY:

Earlier this year we approved a contract to improve the beach at McDaniel Park to convert from gravel to sand. Additionally, a barrier was to be installed with water filtration in partnership with Dane County. This work requires a permit with the Wisconsin Department of Natural Resources. During the permitting process it was discovered that additional excavation of rocks of varying sizes was needed along the shortline and within the entry point to the water. The Village pursued permission to remove these rocks through the DNR which led to a meeting with their Staff on April 7th and 25th. We discussed past park planning to outline the public interest in developing the beach as well as the permitting process. Generally speaking the conversion of the beach material, addition of the barrier, and water filtration were all fine but the DNR has taken exception to the removal of the rocks. They will not permit the removal of the rocks through our current permit application. Additional planning is needed to prepare a new permit geared more towards dredging and less towards the beach project that was planned. As such, the Village will not be able to further pursue this project in 2023. The Village Board voted to terminate both contracts for this work to which both entities agreed to release the Village from these obligations. Present plans are to resume the permitting process in 2024 along with a possible implementation date for swimming season of 2025. The Committee had reviewed this matter previously at our meeting in May.

FINANCIAL/BUDGET IMPACT:

The 2023 Budget was approved to allocate \$250,000 for the project. Funds for the project will be reallocated to a different capital project.

VILLAGE PLAN REFERENCE:

None.

ORDINANCE REFERENCE:

None.



BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

No action is required on this item.

ATTACHMENTS:

1. MC 204 CURRENT SET

2023 MCDANIEL PARK IMPROVEMENTS

Village of McFarland, Wisconsin

SHEET INDEX	
SHEET NO.	SHEET DESCRIPTION
1	EROSION CONTROL PLAN AND GENERAL NOTES
2	EROSION CONTROL – STANDARD CONSTRUCTION DETAILS
3	MCDANIEL PARK IMPROVEMENTS – PLAN VIEW
4	GENERAL CONSTRUCTION DETAILS

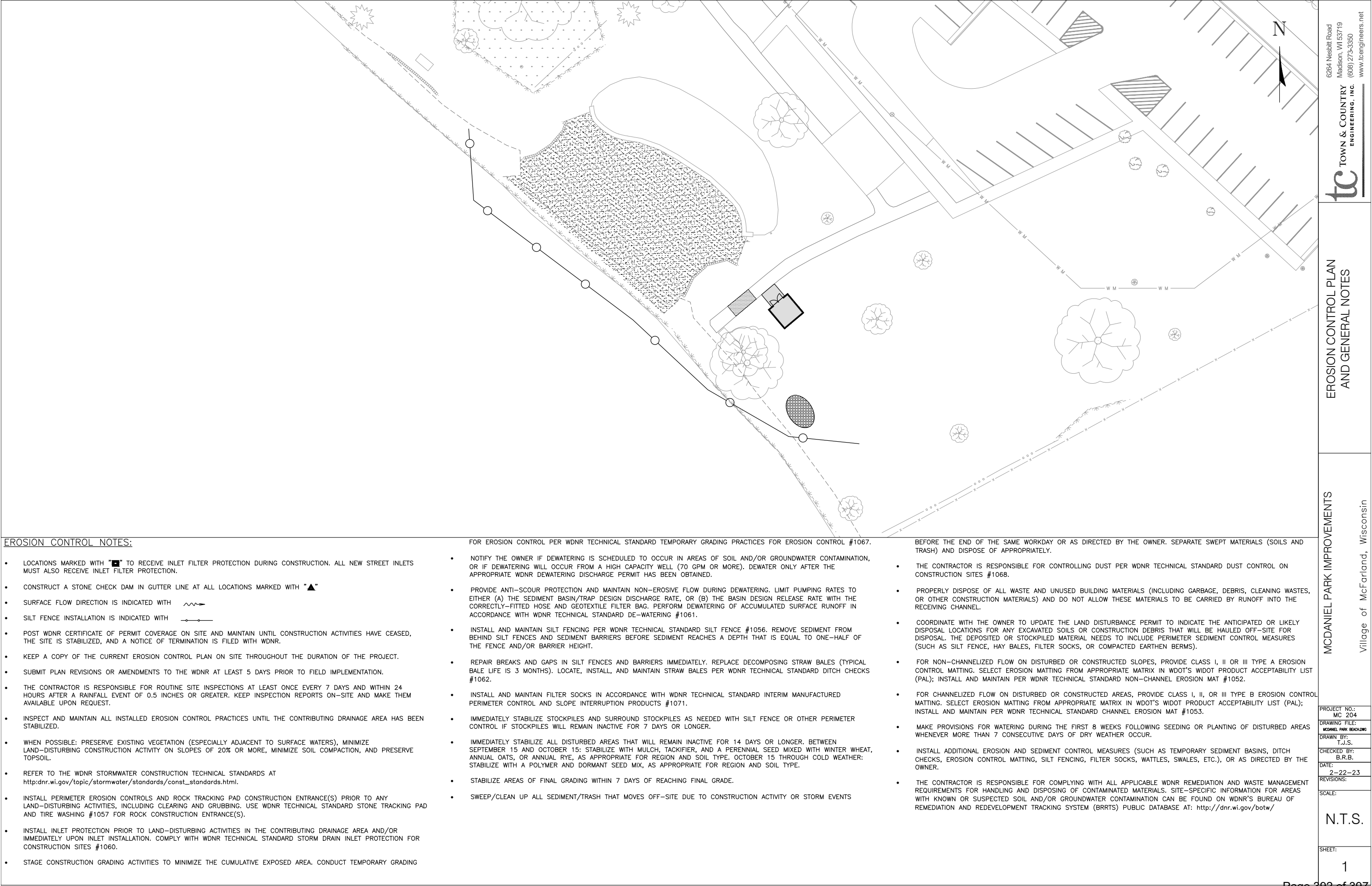


NO SCALE



LEGEND

UNDERGROUND TELE.	— . . — UT — . . — UT — . . — UT —					
UNDERGROUND CATV.	————— UCATV —————					
UNDERGROUND ELEC.	— UE — UE — UE — UE — UE — UE —					
OVERHEAD	— OH — OH — OH —					
EXISTING GAS	— G — G — G — G —					
PROPERTY LINE	— — — — —					
EXISTING WATER MAIN	— W M — W M — W M —					
EXISTING SANITARY SEWER	— SAN — SAN — SAN —					
EXISTING STORM SEWER	— STM — STM — STM — STM —					
EXISTING FENCE LINE	— x — x — x — x — x — x — x —					
SAWCUT	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX					
NEW STORM SEWER	—————					
NEW WATER MAIN	—————					
NEW SANITARY SEWER	—————					
NEW ITEMS:						
						
WATER VALVE	CURB STOP	HYDRANT	MANHOLE	CURB INLET	ENDWALL	GAS WARNING
EXISTING ITEMS:						
						
FLAG POLE	MAILBOX	POWER POLE	LIGHT POLE	LAMP POST	PULL BOX	
						
WATER VALVE	CURB STOP	HYDRANT	WELL	MONITORING WELL	TRACER WIRE	
						
SANITARY MANHOLE	SANITARY VALVE	CLEANOUT	STORM MANHOLE	CURB INLET	CIRCULAR INLET	
						
SQUARE INLET	ENDWALL	STUMP	DECID. TREE (RELATIVE SIZE SHOWN)	EVERGREEN	SHRUB OR HEDGE	SIGN
						
CATV. PED.	TELE. PED.	ELEC. PED.	GAS VALVE	STREET SIGN	IRON PIPE	IRON ROD
NOTES: 1.) EXISTING FEATURES AND LABELS ARE SHOWN WITH SCREENED, LIGHTER LINES. 2.) NEW CONCRETE IS SHOWN SHADED IN PLAN VIEWS 3.) CONCRETE REMOVALS ARE SHOWN BY CROSS-HATCHING						



EROSION CONTROL NOTES:

- LOCATIONS MARKED WITH "■" TO RECEIVE INLET FILTER PROTECTION DURING CONSTRUCTION. ALL NEW STREET INLETS MUST ALSO RECEIVE INLET FILTER PROTECTION.
- CONSTRUCT A STONE CHECK DAM IN GUTTER LINE AT ALL LOCATIONS MARKED WITH "▲"
- SURFACE FLOW DIRECTION IS INDICATED WITH
- SILT FENCE INSTALLATION IS INDICATED WITH
- POST WDNR CERTIFICATE OF PERMIT COVERAGE ON SITE AND MAINTAIN UNTIL CONSTRUCTION ACTIVITIES HAVE CEASED, THE SITE IS STABILIZED, AND A NOTICE OF TERMINATION IS FILED WITH WDNR.
- KEEP A COPY OF THE CURRENT EROSION CONTROL PLAN ON SITE THROUGHOUT THE DURATION OF THE PROJECT.
- SUBMIT PLAN REVISIONS OR AMENDMENTS TO THE WDNR AT LEAST 5 DAYS PRIOR TO FIELD IMPLEMENTATION.
- THE CONTRACTOR IS RESPONSIBLE FOR ROUTINE SITE INSPECTIONS AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCHES OR GREATER. KEEP INSPECTION REPORTS ON-SITE AND MAKE THEM AVAILABLE UPON REQUEST.
- INSPECT AND MAINTAIN ALL INSTALLED EROSION CONTROL PRACTICES UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- WHEN POSSIBLE: PRESERVE EXISTING VEGETATION (ESPECIALLY ADJACENT TO SURFACE WATERS), MINIMIZE LAND-DISTURBING CONSTRUCTION ACTIVITY ON SLOPES OF 20% OR MORE, MINIMIZE SOIL COMPACTION, AND PRESERVE TOPSOIL.
- REFER TO THE WDNR STORMWATER CONSTRUCTION TECHNICAL STANDARDS AT http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
- INSTALL PERIMETER EROSION CONTROLS AND ROCK TRACKING PAD CONSTRUCTION ENTRANCE(S) PRIOR TO ANY LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRUBBING. USE WDNR TECHNICAL STANDARD STONE TRACKING PAD AND TIRE WASHING #1057 FOR ROCK CONSTRUCTION ENTRANCE(S).
- INSTALL INLET PROTECTION PRIOR TO LAND-DISTURBING ACTIVITIES IN THE CONTRIBUTING DRAINAGE AREA AND/OR IMMEDIATELY UPON INLET INSTALLATION. COMPLY WITH WDNR TECHNICAL STANDARD STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES #1060.
- STAGE CONSTRUCTION GRADING ACTIVITIES TO MINIMIZE THE CUMULATIVE EXPOSED AREA. CONDUCT TEMPORARY GRADING

FOR EROSION CONTROL PER WDNR TECHNICAL STANDARD TEMPORARY GRADING PRACTICES FOR EROSION CONTROL #1067.

- NOTIFY THE OWNER IF DEWATERING IS SCHEDULED TO OCCUR IN AREAS OF SOIL AND/OR GROUNDWATER CONTAMINATION, OR IF DEWATERING WILL OCCUR FROM A HIGH CAPACITY WELL (70 GPM OR MORE). DEWATER ONLY AFTER THE APPROPRIATE WDNR DEWATERING DISCHARGE PERMIT HAS BEEN OBTAINED.
- PROVIDE ANTI-SCOUR PROTECTION AND MAINTAIN NON-EROSIVE FLOW DURING DEWATERING. LIMIT PUMPING RATES TO EITHER (A) THE SEDIMENT BASIN/TRAP DESIGN DISCHARGE RATE, OR (B) THE BASIN DESIGN RELEASE RATE WITH THE CORRECTLY-FITTED HOSE AND GEOTEXTILE FILTER BAG. PERFORM DEWATERING OF ACCUMULATED SURFACE RUNOFF IN ACCORDANCE WITH WDNR TECHNICAL STANDARD DE-WATERING #1061.
- INSTALL AND MAINTAIN SILT FENCING PER WDNR TECHNICAL STANDARD SILT FENCE #1056. REMOVE SEDIMENT FROM BEHIND SILT FENCES AND SEDIMENT BARRIERS BEFORE SEDIMENT REACHES A DEPTH THAT IS EQUAL TO ONE-HALF OF THE FENCE AND/OR BARRIER HEIGHT.
- REPAIR BREAKS AND GAPS IN SILT FENCES AND BARRIERS IMMEDIATELY. REPLACE DECOMPOSING STRAW BALES (TYPICAL BALE LIFE IS 3 MONTHS). LOCATE, INSTALL, AND MAINTAIN STRAW BALES PER WDNR TECHNICAL STANDARD DITCH CHECKS #1062.
- INSTALL AND MAINTAIN FILTER SOCKS IN ACCORDANCE WITH WDNR TECHNICAL STANDARD INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS #1071.
- IMMEDIATELY STABILIZE STOCKPILES AND SURROUND STOCKPILES AS NEEDED WITH SILT FENCE OR OTHER PERIMETER CONTROL IF STOCKPILES WILL REMAIN INACTIVE FOR 7 DAYS OR LONGER.
- IMMEDIATELY STABILIZE ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR 14 DAYS OR LONGER. BETWEEN SEPTEMBER 15 AND OCTOBER 15: STABILIZE WITH MULCH, TACKIFIER, AND A PERENNIAL SEED MIXED WITH WINTER WHEAT, ANNUAL OATS, OR ANNUAL RYE, AS APPROPRIATE FOR REGION AND SOIL TYPE. OCTOBER 15 THROUGH COLD WEATHER: STABILIZE WITH A POLYMER AND DORMANT SEED MIX, AS APPROPRIATE FOR REGION AND SOIL TYPE.
- STABILIZE AREAS OF FINAL GRADING WITHIN 7 DAYS OF REACHING FINAL GRADE.
- SWEEP/CLEAN UP ALL SEDIMENT/TRASH THAT MOVES OFF-SITE DUE TO CONSTRUCTION ACTIVITY OR STORM EVENTS

BEFORE THE END OF THE SAME WORKDAY OR AS DIRECTED BY THE OWNER. SEPARATE SWEEPED MATERIALS (SOILS AND TRASH) AND DISPOSE OF APPROPRIATELY.

- THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST PER WDNR TECHNICAL STANDARD DUST CONTROL ON CONSTRUCTION SITES #1068.
- PROPERLY DISPOSE OF ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, OR OTHER CONSTRUCTION MATERIALS) AND DO NOT ALLOW THESE MATERIALS TO BE CARRIED BY RUNOFF INTO THE RECEIVING CHANNEL.
- COORDINATE WITH THE OWNER TO UPDATE THE LAND DISTURBANCE PERMIT TO INDICATE THE ANTICIPATED OR LIKELY DISPOSAL LOCATIONS FOR ANY EXCAVATED SOILS OR CONSTRUCTION DEBRIS THAT WILL BE HAULED OFF-SITE FOR DISPOSAL. THE DEPOSITED OR STOCKPILED MATERIAL NEEDS TO INCLUDE PERIMETER SEDIMENT CONTROL MEASURES (SUCH AS SILT FENCE, HAY BALES, FILTER SOCKS, OR COMPACTED EARTHEN BERMS).
- FOR NON-CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED SLOPES, PROVIDE CLASS I, II OR III TYPE A EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD NON-CHANNEL EROSION MAT #1052.
- FOR CHANNELIZED FLOW ON DISTURBED OR CONSTRUCTED AREAS, PROVIDE CLASS I, II, OR III TYPE B EROSION CONTROL MATTING. SELECT EROSION MATTING FROM APPROPRIATE MATRIX IN WDOT'S WIDOT PRODUCT ACCEPTABILITY LIST (PAL); INSTALL AND MAINTAIN PER WDNR TECHNICAL STANDARD CHANNEL EROSION MAT #1053.
- MAKE PROVISIONS FOR WATERING DURING THE FIRST 8 WEEKS FOLLOWING SEEDING OR PLANTING OF DISTURBED AREAS WHENEVER MORE THAN 7 CONSECUTIVE DAYS OF DRY WEATHER OCCUR.
- INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES (SUCH AS TEMPORARY SEDIMENT BASINS, DITCH CHECKS, EROSION CONTROL MATTING, SILT FENCING, FILTER SOCKS, WATTLES, SWALES, ETC.), OR AS DIRECTED BY THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE WDNR REMEDIATION AND WASTE MANAGEMENT REQUIREMENTS FOR HANDLING AND DISPOSING OF CONTAMINATED MATERIALS. SITE-SPECIFIC INFORMATION FOR AREAS WITH KNOWN OR SUSPECTED SOIL AND/OR GROUNDWATER CONTAMINATION CAN BE FOUND ON WDNR'S BUREAU OF REMEDIATION AND REDEVELOPMENT TRACKING SYSTEM (BRRTS) PUBLIC DATABASE AT: <http://dnr.wi.gov/botw/>

EROSION CONTROL PLAN
AND GENERAL NOTES

MCDANIEL PARK IMPROVEMENTS
Village of McFarland, Wisconsin

tc TOWN & COUNTRY
ENGINEERING, INC.
6264 Nesbitt Road
Madison, WI 53719
(608) 273-3350
www.tcengineers.net

PROJECT NO.: MC 204
DRAWING FILE: MCDANIEL PARK BEACHING
DRAWN BY: T.J.S.
CHECKED BY: B.R.B.
DATE: 2-22-23
REVISIONS:
SCALE:
SHEET: 1

N.T.S.



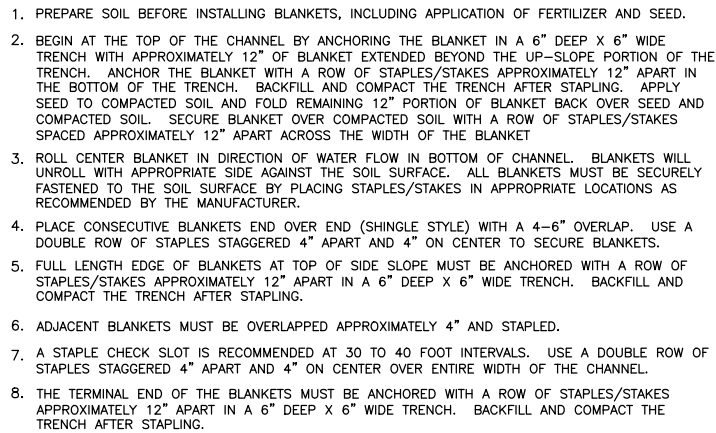
DETAIL

SEDIMENT FENCE



DETAIL

STONE CHECK DAM



DETAIL

EROSION CONTROL MAT - CHANNEL INSTALLATION



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
6. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

DETAIL

EROSION CONTROL MAT - SLOPE INSTALLATION



WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

FRAMED INLET PROTECTION SHALL BE COMPLIANT WITH ALL ASTM STANDARD D8057-17 REQUIREMENTS, INCLUDING:

- A. BYPASS OVERFLOW THAT MEETS OR EXCEEDS INLET DESIGN FLOW
- B. FRAME AND BAG STRONG ENOUGH TO HANDLE FULL SEDIMENT LOAD.

DETAIL
INLET PROTECTION - FRAMED (W/ CURB BOX)



NO PART OF INLET PROTECTION SHALL BE PROJECTING ABOVE THE GRATE.

FOR COMBINATION INLETS, PROTECTION SHALL CAPTURE RUNOFF ENTERING BOTH GRATE AND CURB OPENING.

A DUAL FABRIC FILTER BAG, WITH NON-WOVEN BOTTOM AND WOVEN TOP SHALL BE USED.

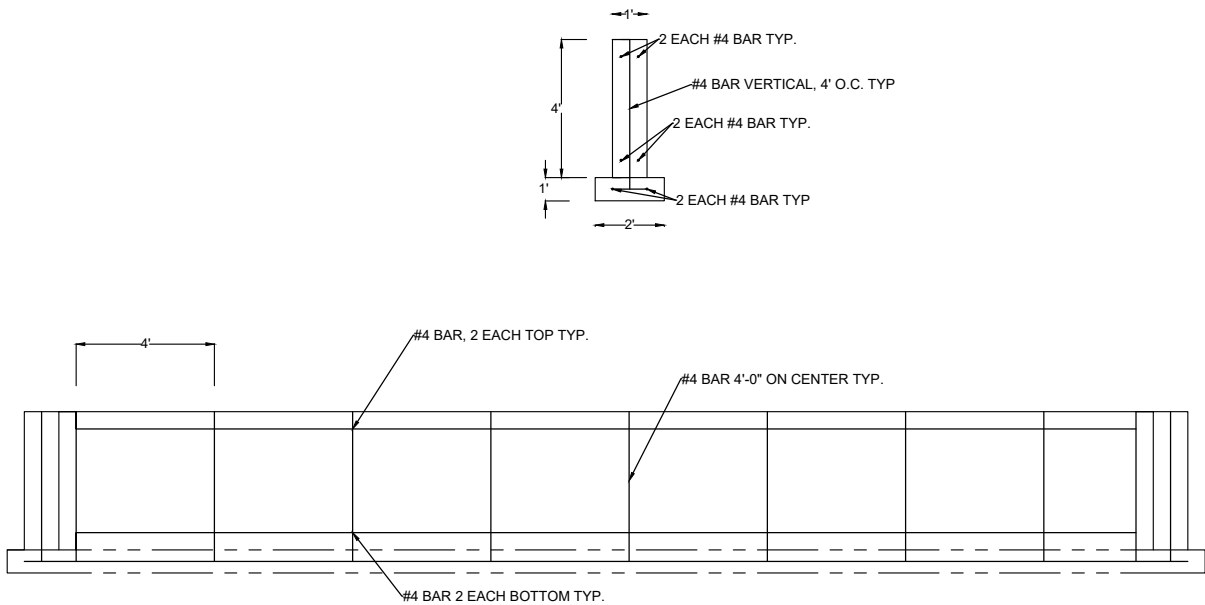
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



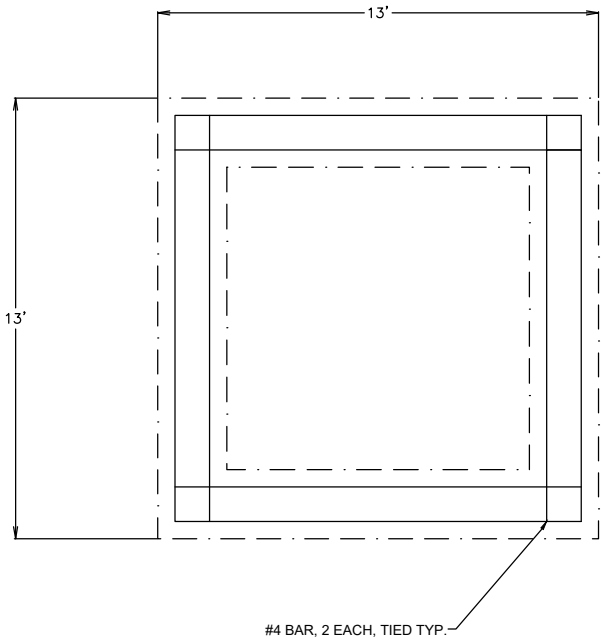
- ON STREET SURFACES
CRUSHED AGGREGATE BASE STONE
SERVES AS TRACKING PAD.

DETAIL
CLEAR STONE TRACKING PAD

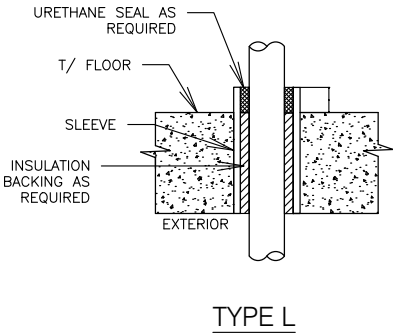




DETAIL
FROST WALL SECTIONS

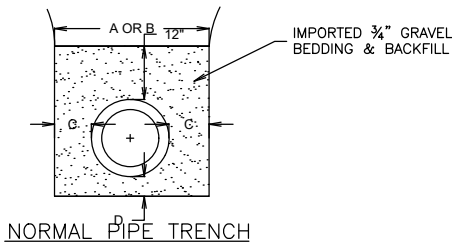


DETAIL
FROST WALL PLAN

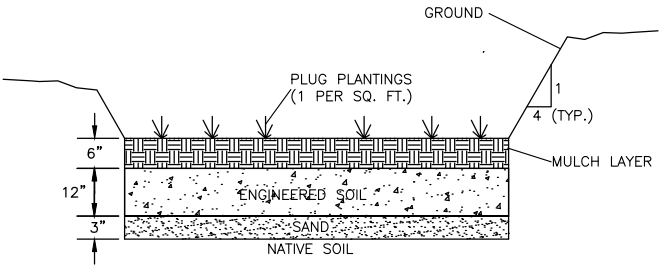


DETAIL
BASE/FLOOR PIPING PENETRATION

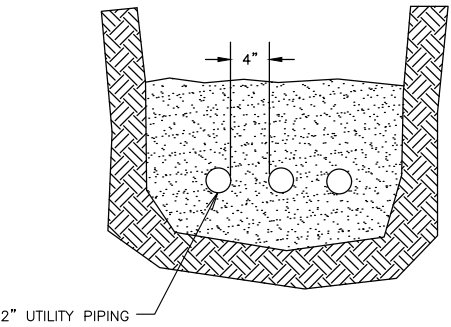
DIMENSIONS:
A: OUTSIDE DIAMETER OF PIPE PLUS 24" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36". TRENCH SHIELDS NARROWER THAN 4 FEET INSIDE WIDTH WILL NOT BE REQUIRED UNLESS SPECIFICALLY REQUIRED IN THE PROJECT SPECIFICATIONS.
B: FOR ROCK, OUTSIDE DIAMETER OF PIPE PLUS 18" MAXIMUM, EXCEPT NEED NOT BE LESS THAN 36".
C: MINIMUM - 6"
D: MINIMUM 4" BELOW BARREL AND 3" BELOW BELL.



DETAIL
TRENCH WIDTH AND BEDDING



DETAIL
BIORETENTION FLUSHING AREA



DETAIL
JOINT TRENCH INSTALLATION

GENERAL DETAILS

MCDANIEL PARK IMPROVEMENTS
Village of McFarland, Wisconsin

PROJECT NO.: MC 204
DRAWING FILE: MCDANIEL PARK BEACH/DWG
DRAWN BY: T.J.S.
CHECKED BY: B.R.B.
DATE: 2-22-23
REVISIONS:
SCALE:

N.T.S.

SHEET:

4

**VILLAGE OF
McFarland
SUMMARY SHEET**

MEETING DATE: Monday, June 12, 2023

SECTION: Business

DEPARTMENT: Community Development

CONTACT: Kong Thao, Associate Planner

AGENDA ITEM: Discussion on No Mow May 2023

PREVIOUS ACTION:

November 10, 2022 - Village Board approved \$500 budget for operating expenses for No Mow May/Low Mow May

November 14, 2022 - Discussion by the S&NR committee favored No Mow May Ordinance.

February 13, 2023 - S&NR Committee recommended to the Village Board adoption of Ordinance 2023-02, amending Sec. 20-25 noxious weeds and lawn height

February 28, 2023 - Village Board approved adoption of Ordinance 2023-02, amending Sec. 20-25 noxious weeds and lawn height

April 19, 2023 - S&NR Committee discussed website and registration

ISSUE SUMMARY:

No Mow May was a success for the Village of McFarland. Below is a summary of data for this year's No Mow May. Not all registered applicants came to pick up their signs. As planned, all remaining signs will be used for next year's No Mow May.

Metric Summary

- Total Registrations: 60
- 25 registrations completed prior to May
- 32 registrations between May 1st to May 15
- 3 registrations after May 16
- 3 registrations not located within McFarland (2-Madison, 1-T. of Dunn)
- 59 residential properties registered
- 1 non-residential property registered
- 4.5 acres of Village greenspace across 8 designated locations within Village Parks participated
- 15 complaints were received by Village Public Works and C&ED.

STAFF COMMENTS

For 2024, staff plans to add additional resources to the page. If there are any additional comments, please reach out to Staff so we may make continue to improve on the success of the program in future years. The registration form will be reevaluated to see if any changes need to be made. Staff will determine the appropriate 2024 budget request for a sign-purchase order



based off 2023's No Mow May activities.

FINANCIAL/BUDGET IMPACT:

None.

VILLAGE PLAN REFERENCE:

Sustainability Plan, 2021 - Identified in the Land Use & Development category for Near-Term Actions as stated, Amend Village Ordinance to allow for a no-mow May.

ORDINANCE REFERENCE:

Sec. 20-25. - Regulations concerning noxious weeds and lawn height

BOARD, COMMISSION OR COMMITTEE RECOMMENDATION:

This item is for discussion only.

ATTACHMENTS:

None