FLORA OF THE ILLINOIS AUDUBON SOCIETY'S LUSK CREEK PROPERTY IN POPE COUNTY, ILLINOIS

Report to the Illinois Audubon Society

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Flora of the Illinois Audubon Society's Lusk Creek Property in Pope County, Illinois

Summary 1

I. Introduction 2

Purpose 2

Study area 2

Procedure 2

II. Inventory of the flora 3

Scientific name 3

Common name 3

Nativity 3

Abundance 4

Vegetation management concern 5

Species documented by the present study 6

Species reported by Mark Basinger 7

Species reported by Bill Hopkins 7

Habitat 7

Notes 8

Treatment of varieties 8

Table 1: Flora of the Illinois Audubon Society's Lusk Creek property . . 10

III. Analysis of the flora 31

Species documented by the present study and by Mark Basinger . 31

Bill Hopkins' floristic inventory 32

Botanical hotspots 33

Rare species 34

Table 2: Officially designated rare species 34

Invasive species 35

Table 3: Invasive species 35

Acknowledgments 36
References cited 37
Appendix 1: Plants listed by family 38
Appendix 2: Plants listed by common name 45

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SUMMARY

- The Illinois Audubon Society's 57-acre Lusk Creek property has 574 species of flowering plants, ferns, and fern allies, including 509 native species. This is extraordinarily high diversity.

- The tract has four especially interesting concentrations of plant species: the northwest field, the sandstone glade and immediately adjacent forest, the southernmost bend in Lusk Creek, and the talus at the south end of the property.

- Six species are listed as Threatened or Endangered by the State of Illinois: sharp-scaled sedge, Willdenow's sedge, Appalachian bugbane, Yadkin panic grass, French's shooting star, and climbing milkweed.

- Eight species are designated by the U.S. Forest Service as Sensitive Species: the first five of the above-listed species plus superb lily, Goldie's fern, and ginseng.

- Four highly invasive species occur in the area: Japanese honeysuckle, autumn olive, Chinese yam, and stilt grass.

I. INTRODUCTION

Purpose

The purpose of this project is to provide an inventory and discussion of the vascular flora (*i.e.* flowering plants, ferns, and fern allies) growing at the Illinois Audubon Society's property along Lusk Creek in Pope County, Illinois.

Study area

The Illinois Audubon Society's property is a 57-acre inholding in the Shawnee National Forest's Lusk Creek Wilderness. It occupies the east half of the northwest quarter of section 27, Township 11 South, Range 6 East of the Third Principal Meridian excluding the north 14 acres and an irregularly shaped 9-acre parcel in the southwest corner of this half-quarter section.

Procedure

I surveyed the flora on the following dates in 2010: April 28, June 10, 11, 24, and 27, and September 17, 18, and 22. I searched for different kinds of plants by carefully and repeatedly examining all habitats throughout the area. I identified species and varieties on sight or by referring to botanical manuals and by comparing collections with herbarium specimens and illustrations. I also relied on the help of botanists who are familiar with the local flora.

Mark Basinger visited the property on June 27, 2008, and listed the plants that he observed in various habitats. His report (Basinger 2008) provided a solid foundation for my work by identifying 349 species, including many that can be hard to find or recognize.

II. INVENTORY OF THE FLORA

Table 1 is a list of vascular plants found on the property. [*] The compilation includes plants found by me, by botanists who accompanied me, and by Mark Basinger. Table 1 denotes the nativity, abundance, habitats, and management concerns for each species. The table begins with a legend on page 10, and it extends through page 30. The column headings and kinds of information provided by the table are discussed here.

Scientific name (COLUMN 1 in Table 1)

Species are listed in Table 1 in alphabetical order according to their Latin names. Scientific nomenclature follows Mohlenbrock's *Vascular Flora of Illinois* (2002*b*).

Additional scientific names are listed for some species. These extra names are primarily synonyms and other names that were in common use until recent taxonomic revisions. They include old names that were employed by Hopkins (1969) and Mohlenbrock (1986). The additional names are given in parentheses after the currently accepted name; they are also listed separately in alphabetical order and cross-referenced to the current name. For instance the entry for *Anagallis minima* reads, "Anagallis minima (Centunculus minimus)," and the entry for *Centunculus minimus* says, "See: Anagallis minima."

In the scientific names, "var." stands for *variety*, and "ssp." is short for *subspecies*. I listed a variety or a subspecies if it is included in Mohlenbrock's *Vascular Flora* and if I recognized it as a distinct entity.

Common name (COLUMN 2)

Non-scientific names have not been standardized by botanists. To the extent possible, I chose names that in common use in southern Illinois.

Nativity (COLUMN 3, with the heading Nat)

Three coded terms in column 3 tell whether a species is indigenous to the area:

> **Native** (represented by the code N).–A *native* species is defined as one that is thought to have occurred naturally in the general region of Lusk Creek throughout recorded history.

[*] Vascular plants consist of three groups: (1) flowering plants (trees, shrubs, vines, grasses, grass-like plants, and broad-leaved herbs), (2) ferns (which reproduce with spores rather than flowers and seeds), and (3) fern allies (represented by a quillwort and a horsetail). Nonvascular plants (which are not included in this study) include mosses, liverworts, and their relatives.

Native elsewhere in Illinois (NI).–A species is denoted as NI if it is native to Illinois but its natural, historic range does not include the region around Lusk Creek.

Exotic (E).–An *exotic* species is not native to Illinois. Most exotics are Old World plants, but many are native to other parts of the Americas.

Each species in Table 1 is annotated as either native (N) or non-native (E or NI).

Abundance (COLUMN 4, with the heading Abn)

A five-level scale in column 4 estimates how common each species is within suitable habitats on the site:

1. Rare.–A species is considered *rare* if it is known to have very few (up to about four) individuals or small populations. A rare species is likely to be found only with luck, or after prolonged, diligent searching, or by returning to a previously known location.

2. Occasional.–An *occasional* species is common enough that it is likely to be located with a search of suitable habitat, but the plant is not so frequent that it is apt to be discovered immediately.

3. Common.–A species is *common* if it can be located without much effort when searching its habitat.

4. Very common.–These species are encountered with little or no effort in suitable habitat.

5. Abundant.–An *abundant* species is predominant and ubiquitous in its habitat.

The ratings in column 4 provide a subjective, non-quantitative estimate of abundance. Only five classes (*rare* through *abundant*) characterize the entire range of possible population levels for all species, so each one of the classes must embrace a broad range of numbers. Despite the wide latitude of each class, it can be difficult to estimate the abundance of a species. I refined the abundance estimate for each species as the project proceeded; if I were to reassign the ratings in a new trial, I might sometimes change an abundance rating by one class (*e.g.* perhaps from 2 to 3, but not from 2 to 4).

Some plants occur in a wide range of environments, but they are often more common in certain habitats than in others. The abundance rating is an estimate of a species' numbers in its optimal habitats, where it is most common. The rating is not an estimate of the over-all abundance of a species on the property as a whole (without regard to habitat).

I adjusted the scale to accommodate various growth forms of plants (*i.e.* trees, shrubs, and herbs). An acre of mature forest can support hundreds of thousands of herbs but only a few hundred trees. Consequently a herbaceous species can be a few orders of magnitude more numerous than a tree species but still be assigned to the same abundance class as the tree.

Many plant species have a patchy distribution, even within a habitat that appears to be well suited for its growth. Such an uneven distribution makes it difficult to assign an overall abundance rating. A species might be locally so common that it would rate an abundance of 3 or 4; but considering its habitat as a whole, it might be rated only 2. I qualified the abundance rating for some species by adding an L (for "locally"): *e.g.* L3 means "locally common."

I did not assign an abundance rating to species that Mark Basinger found but I did not find.

Vegetation management concern (COLUMN 5, with the heading VMC)

A four-level ranking system in column 5 rates each species in terms of its ecological impact as an undesirable invasive:

0. No management concern.–All native plants are rated 0 on the scale of vegetation management concern. A non-native species is similarly of no management concern if it has the following characteristics:

- it does not commonly invade natural, undisturbed environments in large numbers,
- it is not likely to persist on the property in significant numbers unless its habitat is maintained in an unnatural condition by continual human disturbances, and
- it does not interfere with efforts to maintain or reestablish native vegetation.

1. Low management concern.–A species is of low concern if it has the following traits:

- it does not commonly invade and persist in natural, undisturbed environments in large numbers,
- its impact on natural conditions is low,
- it is not difficult to control or eliminate, and
- it hardly interferes with efforts to maintain or reestablish native vegetation.

A species that is rated 1 should be casually monitored to ensure that it is not more of a problem than it was originally considered to be.

2. Moderate management concern.–The species has the following traits:

- it readily invades natural, undisturbed environments in large numbers,
- it is likely to persist in significant numbers unless it is controlled, and
- it is not easy to control, but
- it does not have a severe impact on natural conditions;

or:

- it is common in degraded areas before they are restored, or it readily becomes established during restoration efforts, but
- it does not have a severe, long-term impact on efforts to maintain or reestablish native vegetation.

A species that is rated 2 should be controlled or monitored to ensure that it does not become more of a problem than it was originally considered.

3. High management concern.–The species has these traits:

- it readily invades natural, undisturbed environments in large numbers,
- it is likely to persist in significant numbers unless it is controlled,
- it is difficult to control, and
- it has a severe impact on natural conditions;

or:

- it has a severe, long-term impact on efforts to maintain or reestablish native vegetation.

A species that is rated 3 should be carefully controlled and monitored if possible.

Some species do not fit well into the matrix of traits that define the levels of management concern. To keep from making the definitions of management concerns any more complex, it is necessary to assign each plant to the level of concern that it best fits (relative to other species) – even though every species does not fit perfectly into the set of definitions.

Species documented by the present study (COLUMN 6, with the heading JW)

If a species was found by me or a botanist who accompanied me in the field, it is indicated by an X in the JW (John White) column.

Species reported by Mark Basinger (COLUMN 7, with the heading MB)

If Mark Basinger observed a species during his 2008 examination of the site, it is marked with an X in the MB column.

Species reported by Bill Hopkins (COLUMN 8, with the heading BH)

If a species on the Illinois Audubon Society's property was also reported by Hopkins (1969) from his neighboring Lusk Creek Canyon study area, it is noted in the BH column.

Habitat (COLUMNS 9 TO 15)

The range of environments on the site is encompassed by seven habitats, which are adapted from "Classification of Natural Communities in Illinois" by White and Madany (1978):

> **Mesic upland forest** (MUF).–Mesic upland forest occupies the lower slopes of hills and ravines. This habitat extends farther up north and east-facing slopes than south and west exposures. Sugar maple (*Acer saccharum*) and spicebush (*Lindera benzoin*) are characteristic of the habitat. Relatively high soil moisture and fertility levels in mesic upland forest support a diverse and productive spring flora.
>
> **Mesic floodplain forest** (MFF).–This habitat is similar to mesic upland forest except that it is on alluvium that floods when Lusk Creek overflows its banks. Because of scouring and deposition of sediments by floodwaters, mesic floodplain forest is more disturbed than mesic upland forest.
>
> **Dry-mesic upland forest** (DMF).–This habitat consists of wooded upper slopes, especially south and west-facing exposures. Oaks and hickories are the predominant overstory trees. Herbaceous plants in dry-mesic upland forest may become stressed by low soil moisture during the growing season.
>
> **Dry upland forest and sandstone glade** (DFG).–A band of thin soil and sandstone "pavement" extends along the top of the bluff near the cabin site. The two natural communities (glade and forest) are combined here as one habitat because they intermix and intergrade so much, and their complements of plants are quite similar.
>
> **Successional field** (SF).–This habitat consists of former farmland that has been abandoned and is undergoing ecological succession to woody vegetation. The tract has seven old fields totaling 24 acres.
>
> **Sandstone cliff and overhang** (CO).–This habitat consists of vertical and overhanging bedrock outcrops as well as detached blocks of sandstone.

High-gradient creek (Cr).–The creek habitat includes pools, riffles, gravel bars, and banks of Lusk Creek. About six-tenths of a mile of the creek flows through the Audubon Society's land.

Almost any plant species that grows in the forest might occasionally be found on the adjacent sandstone outcrops. To keep from inflating the list of plants for the sandstone cliff and overhang habitat, I included only species that either (a) show a strong affinity for this habitat (as if preferring to grow there instead of in the soil of the surrounding forest), or (b) are exceptionally common on rock outcrops.

Similarly, successional fields eventually become habitat for most of the plant species growing in the adjacent forest. I did not attempt to list every forest species that I found in old fields; instead I recorded only those that are most common or characteristic of the habitat.

The creek channel also provides habitat for many of the plants growing in the adjacent woods and fields. I took a conservative approach when compiling the species list for the creek habitat and listed only plants that were limited to this habitat or that were obviously more abundant there.

Notes (COLUMN 20)

The last column in Table 1 provides further comments about a plant's identification, nativity, abundance, management concerns, habitats, and so forth.

Treatment of varieties

For 15 of the species in Table 1, I identified two varieties. It is relatively easy to distinguish different varieties of some species; but for other species, it is impractical or impossible to determine the variety of every individual plant because it may call for examining the foliage under magnification or studying flowers or fruits that are not present. Consequently Table 1 has more detail at the varietal level for some species than for others. For instance on page 11, there is information about the abundance and habitats of each of two varieties of red maple (*Acer rubrum*) because I could readily distinguish the three-lobed variety from typical red maples. On the other hand, on page 15, I combined information about the abundance and habitats of two varieties of hackberry (*Celtis occidentalis*) because I did not always distinguish the varieties in the field by determining the hairiness of the upper surface of the leaves.

Mark Basinger and Bill Hopkins did not distinguish varieties for most of the 15 species that I split into two varieties. My annotations in Table 1 are based on the presumption that they observed the most common variety (usually the typical variety).

I listed a single variety for many species (for instance, on page 11, I listed *Acalypha gracilens* var. *gracilens* instead of simply *Acalypha gracilens*). Mark Basinger and Bill Hopkins usually did not distinguish a variety in such instances. When I tabulated their species lists, I presumed that they observed the same variety as I did.

Because of changes in plant classification and other complications, I was not able to take all of the varieties that Bill Hopkins listed and clearly and simply translate them into modern taxonomy. If Bill listed one variety of a species and I listed another, sometimes I can say only that we found the same species – leaving open the question of whether we actually found different varieties. As a result, my plant list and Bill's plant list are best compared at the species level, ignoring varieties. A species that has an X in the BH column and an X in the JW column indicates that Bill Hopkins and I found the same species; it cannot always be interpreted as meaning that we found the same variety of that species.

Table 1: Flora of the Illinois Audubon Society's Lusk Creek property.

LEGEND

COLUMN 1: **Scientific name**.–Latin names follow the nomenclature in Mohlenbrock's *Vascular Flora of Illinois* (2002*b*). Species are arranged in alphabetical order. The format of scientific names in Table 1 is described on page 3.

COLUMN 2: **Common name**.–To the extent possible, these are names in common use in the region.

COLUMN 3: **Nativity** (indicated by Nat in the column heading).–A set of three codes states whether a species is indigenous to the site. The terms represented by those codes are defined on page 3.

COLUMN 4: **Abundance** (indicated by the heading Abn).–A five-level scale (1 to 5) estimates how common each species is in suitable habitats on the site. The abundance scale and its application are described on page 4.

COLUMN 5: **Vegetation management concern** (VMC).–A four-part classification system (0 to 3) indicates whether a species is likely to invade natural environments or otherwise interfere with vegetation management efforts (see pages 5 and 6).

COLUMN 6: **Species documented by the present study** (JW).–If a plant was found during my study, it is noted with an X in this column.

COLUMN 7: **Species reported by Mark Basinger** (MB).–If a plant was found by Mark Basinger, it is noted with an X in this column.

COLUMN 8: **Species reported by Bill Hopkins** (BH).–Plants that occur on the Illinois Audubon Society's property and that are also reported by Hopkins (1969) from Lusk Creek Canyon are indicated in this column.

COLUMNS 9 TO 15: **Habitat**.–The full range of environments in the tract is encompassed by seven habitats, defined on pages 7 and 8. If a plant typically occurs in one of those habitats, there is an X in the row for the species and in the column for that habitat.

COLUMN 16: **Notes**.–This column supplements information in the other columns.

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Abutilon theophrastii	Velvet-leaf	E	1	0	X									X	
Acalypha gracilens var. gracilens	Slender three-seeded Mercury	N	2	0	X	X	X	X			X	X			
Acalypha rhomboidea	Rhombic three-seeded Mercury	N	1	0	X		X							X	
Acalypha virginica	Virginia three-seeded Mercury	N	3	0	X	X		X	X	X	X	X			
Acer negundo var. negundo	Box elder	N	L3	0	X	X	X	X	X	X		X			
Acer rubrum var. rubrum	Red maple	N	3	0	X	X	X	X	X	X	X	X			
Acer rubrum var. trilobum	Three-lobed red maple	N	L2	0	X			X							
Acer saccharum var. saccharum	Sugar maple	N	L5	0	X	X	X	X	X	X	X				
Achillea millefolium var. millefolium	Yarrow, milfoil	E	2	0	X	X	X				X	X			
Actaea pachypoda (Actaea alba)	Doll's eyes, white baneberry	N	L2	0	X		X		X						
Adiantum pedatum	Maidenhair fern	N	2	0	X		X		X						
Aesculus glabra var. glabra	Ohio buckeye	N	3	0	X	X	X	X	X	X	X				
Agalinis fasciculata (Gerardia fasciculata)	Tufted false foxglove	N	L2	0	X		X				X	X			
Agalinis tenuifolia (Gerardia tenuifolia)	Narrow-leaved false foxglove	N	L2	0	X		X				X	X			
Agastache nepetoides	Yellow giant hyssop	N	2	0	X	X		X	X	X	X	X			
Agave virginica See: Manfreda virginica															
Ageratina altissima (Eupatorium rugosum)	White snakeroot	N	3	0	X	X	X	X	X	X	X	X			
Agrimonia parviflora	Swamp agrimony	N	2	0	X		X	X				X			
Agrimonia rostellata	Woodland agrimony, beaked agrimony	N	2	0	X	X	X	X	X	X					
Agrostis elliottiana	Awned bent grass	N	–	0		X	X				X				
Agrostis gigantea (Agrostis alba var. alba)	Redtop	E	3	0	X	X	X					X		X	Mohlenbrock (2002*a*, 2002*b*) describes this grass as native, but I follow Swink and Wilhelm (1994), who consider the widespread, abundant strain of redtop to be introduced from Europe.
Agrostis hyemalis	Tickle grass	N	L2	0	X	X	X					X			
Agrostis perennans	Upland bent grass	N	3	0	X	X		X	X	X	X				
Alisma subcordatum (Alisma plantago-aquatica var. parvifolium)	Small-flowered water plantain	N	L3	0	X	X	X							X	
Allium canadense var. canadense	Wild onion	N	2	0	X	X	X	X	X	X	X	X			
Allium vineale	Field garlic	E	2	0	X	X					X	X			
Alnus serrulata	Smooth alder	N	1	0	X		X							X	I found a single small plant (two stems about 3 feet tall) on a gravel bar.
Ambrosia artemisiifolia	Common ragweed	N	3	0	X	X	X	X	X	X	X	X			
Ambrosia bidentata	Lance-leaved ragweed, toothed ragweed	N	L5	0	X	X	X	X			X	X			
Ambrosia trifida var. trifida	Giant ragweed	N	2	0	X	X	X	X			X	X			
Amelanchier arborea	Shadbush, serviceberry	N	2	0	X	X	X	X	X	X	X	X	X		
Ampelamus albidus (Cynanchum laeve)	Bluevine	N	1	0	X		X	X				X			

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Amphicarpaea bracteata var. bracteata	Hog peanut	N	L3	0	X	X	X	X	X	X	X	X			
Amsonia tabernaemontana var. tabernaemontana	Blue star	N	2	0	X	X	X	X	X	X	X				
Anagallis minima (Centunculus minimus)	Chaffweed	N	–	0		X					X				
Andropogon gerardii	Big bluestem	N	L4	0	X		X				X	X			
Andropogon gyrans (Andropogon elliottii)	Elliott's broomsedge	N	L2	0	X	X	X					X			
Andropogon scoparius See: Schizachyrium scoparium															
Andropogon virginicus	Broomsedge	N	L3	0	X	X	X				X	X			
Anemone virginiana	Tall anemone, thimbleweed	N	L2	0	X		X					X			
Anemonella thalictroides	Rue anemone	N	2	0	X		X		X						
Antennaria plantaginifolia	Pusseytoes	N	L2	0	X	X	X			X	X				
Antenoron virginianum (Polygonum virginianum, Tovara virginiana)	Virginia knotweed, woodland knotweed, jumpseed	N	3	0	X	X	X	X	X	X	X	X			
Anthemis cotula	Dog fennel	E	–	0		X								X	
Apios americana	Groundnut	N	2	0	X	X		X	X			X			
Aplectrum hyemale	Putty-root orchid	N	L2	0	X		X		X						
Apocynum cannabinum	Indian hemp, common dogbane	N	L3	0	X		X			X	X	X			
Aquilegia canadensis	Wild columbine	N	L2	0	X		X		X	X	X		X		
Arabis canadensis	Sicklepod	N	L2	0	X		X		X		X				
Arabis laevigata	Smooth rock cress	N	2	0	X	X	X		X	X	X		X		
Arisaema dracontium	Green dragon	N	2	0	X	X	X	X	X	X	X				
Arisaema triphyllum ssp. triphyllum	Jack-in-the-pulpit	N	3	0	X	X	X	X	X	X	X				
Aristida dichotoma	Three-awn	N	L4	0	X							X			
Aristolochia serpentaria	Virginia snakeroot	N	2	0	X	X	X	X	X	X	X				
Arnoglossum atriplicifolium (Cacalia atriplicifolia)	Pale Indian plantain	N	L3	0	X	X		X	X					X	
Arundinaria gigantea	Giant cane	N	L5	0	X	X	X	X	X			X			
Asarum canadense var. reflexum	Wild ginger	N	3	0	X	X	X	X	X						
Asclepias exaltata (Asclepias phytolaccoides)	Poke milkweed	N	1	0	X		X		X						
Asclepias quadrifolia	Whorled milkweed	N	1	0	X					X					
Asclepias syriaca var. syriaca	Common milkweed	N	L2	0	X							X			
Asclepias tuberosa spp. interior	Butterfly weed	N	1	0	X	X	X					X			I noted four plants in flower in the north-west field.
Ascyrum multicaule (Hypericum stragulum)	St. Andrew's cross	N	1	0	X	X	X		X		X				
Asimina triloba	Pawpaw	N	L5	0	X	X	X	X	X	X					
Asplenium platyneuron var. platyneuron	Ebony spleenwort	N	2	0	X	X	X	X	X	X	X	X	X		
Asplenium rhizophyllum	Walking fern	N	1	0	X		X						X		
Aster lanceolatus var. simplex (Aster simplex)	Panicled aster	N	3	0	X	X	X	X	X	X	X	X			
Aster lateriflorus	Side-flowered aster	N	L3	0	X		X	X	X	X	X	X			

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Aster patens	Spreading aster	N	1	0	X		X				X				
Aster pilosus	Frost aster, hairy aster	N	L3	0	X	X	X	X			X	X			
Aster praealtus var. praealtus	Willow aster	N	L2	0	X		X					X			
Aster sagittifolius	Arrow-leaved aster	N	3	0	X			X	X	X	X	X			
Aster shortii	Short's aster	N	L3	0	X	X	X		X						
Aster turbinellus	Top-shaped aster	N	1	0	X		X				X				
Athyrium filix-femina	Lady fern	N	L2		X		X		X						
Athyrium pycnocarpon See: Diplazium pycnocarpon															
Athyrium thelypterioides See: Deparia acrostichoides															
Aureolaria flava var. micrantha	Yellow false foxglove	N	1	0	X		X				X				
Barbarea vulgaris var. arcuata	Yellow rocket, bitter winter cress	E	2	0	X	X	X	X	X		X	X			
Betula nigra	River birch	N	L3	0	X	X	X	X						X	
Bidens aristosa var. aristosa	Swamp marigold, beggar's ticks, tickseed sunflower	N	L4	0	X	X	X	X	X	X	X	X		X	
Bidens aristosa var. fritcheyi	Swamp marigold, beggar's ticks, tickseed sunflower	N		0	X										
Bidens bipinnata	Spanish needles	N	L3	0	X	X	X	X	X	X	X	X			
Bidens frondosa	Common beggar's ticks, sticktight, devil's bootjack	N	2	0	X									X	
Bidens polylepis	Bur marigold, coreopsis beggar's ticks	N	1	0	X							X		X	
Blephilia ciliata	Downy wood mint, pagoda plant	N	2	0	X	X	X	X	X	X	X				
Blephilia hirsuta	Hairy wood mint, pagoda plant	N	2	0	X	X	X	X	X	X		X			
Boehmeria cylindrica var. cylindrica	False nettle	N	L3	0	X	X	X	X	X	X		X		X	
Botrychium obliquum var. obliquum	Grape fern	N	L2	0	X		X	X	X						
Botrychium virginianum	Rattlesnake fern	N	2	0	X	X	X		X	X					
Bouteloua curtipendula	Side-oats grama	N	L3	0	X						X	X			
Brachyelytrum erectum	False brome, long-awned wood grass	N	3	0	X	X	X	X	X	X					
Bromus commutatus	Hairy chess	E	2	0	X	X					X	X			
Bromus inermis	Smooth brome	E	L2	0	X		X				X	X			
Bromus pubescens	Canada brome, woodland brome	N	3	0	X	X	X	X	X	X	X	X			
Cacalia atriplicifolia See: Arnoglossum atriplicifolium															
Callitriche terrestris	Terrestrial starwort	N	–	0		X								X	
Campanulastrum americanum var. americanum (Campanula americana)	American bellflower	N	L3	0	X	X	X	X	X	X					
Campsis radicans	Trumpet creeper	N	3	0	X	X	X	X	X	X	X	X			
Carex abdita	Hidden oak sedge	N	–	0		X	X				X				
Carex albicans (Carex artitecta)	Blunt-scaled oak sedge	N	2	0	X	X	X		X	X	X	X			
Carex albursina	Blunt-scaled wood sedge, white bear sedge	N	2	0	X		X		X						

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Carex amphibola	Gray sedge	N	–	0		X			X						
Carex annectens See: Carex brachyglossa, Carex vulpinoidea															
Carex artitecta See: Carex albicans															
Carex blanda	Common wood sedge	N	L3	0	X	X	X	X	X	X					
Carex brachyglossa (Carex annectens)	Yellow fox sedge	N	2	0	X	X	X					X			
Carex bushii	Long-scaled green sedge	N	L3	0	X	X	X				X	X			
Carex careyana	Carey's wood sedge	N	L3	0	X		X		X						
Carex cephalophora	Short-headed bracted sedge, capitate sedge	N	2	0	X	X	X		X		X				
Carex convoluta See: Carex rosea															
Carex crinita var. brevicrinis	Fringed sedge	N	2	0	X		X							X	
Carex digitalis	Narrow-leaved wood sedge	N	L3	0	X		X		X						
Carex festucacea	Fescue oval sedge	N	2	0	X	X			X			X			
Carex frankii	Bristly cattail sedge	N	2	0	X	X	X					X		X	
Carex glaucodea	Blue sedge	N	3	0	X	X	X			X	X	X			
Carex grisea	Wood gray sedge	N		0	X					X					
Carex hirsutella	Hairy green sedge	N	3	0	X	X	X				X	X			
Carex jamesii	James' sedge, ice cream cone sedge, grass sedge	N	L3	0	X	X	X		X						
Carex laxiculmis	Weak-stemmed wood sedge	N	L2	0	X				X						
Carex lurida	Bottlebrush sedge	N	1	0	X		X							X	
Carex muhlenbergii	Sand bracted sedge	N	2	0	X	X	X				X	X			
Carex oxylepis var. pubescens	Fuzzy-fruited sharp-scaled sedge	N	1	0	X						X				Jody Shimp pointed out this State Threatened species. GPS coordinates: N 37 degrees 32.3077 minutes, W 88 degrees 32.2024 minutes.
Carex retroflexa	Reflexed sedge	N	L3	0	X	X	X		X		X				
Carex rosea (Carex convoluta)	Curly-styled wood sedge	N	2	0	X	X	X		X						
Carex swanii	Downy green sedge	N	–	0		X			X						
Carex umbellata	Early oak sedge	N	L3	0	X		X			X					
Carex vulpinoidea (Carex annectens)	Brown fox sedge	N	2	0	X	X	X	X				X			
Carex willdenowii	Willdenow's sedge	N	1	0	X				X	X	X				Jody Shimp discovered this State Threatened species. Most of it is concentrated around GPS coordinates N 37 degrees 32.2693 minutes, W 88 degrees 32.1949 minutes.
Carpinus caroliniana var. caroliniana	Musclewood, blue beech, American hornbeam	N	3	0	X	X	X	X	X						
Carya cordiformis	Bitternut hickory	N	3	0	X		X	X	X	X	X				
Carya glabra var. glabra	Pignut hickory	N	3	0	X		X	X	X	X	X				
Carya ovalis	Sweet pignut hickory	N	2	0	X	X	X		X	X	X				
Carya ovata var. ovata	Shagbark hickory	N	3	0	X	X		X	X	X	X				
Carya texana	Black hickory	N	–	0		X	X				X				

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Carya tomentosa	Mockernut hickory	N	L3	0	X		X		X	X	X				
Caulophyllum thalictroides	Blue cohosh	N	1	0	X		X		X						
Cassia fasciculata See: Chamaecrista fasciculata															
Cassia marilandica See: Senna marilandica															
Cassia nictitans See: Chamaecrista nictitans															
Celtis laevigata var. laevigata	Sugarberry	N	2	0	X	X		X	X	X	X				
Celtis occidentalis var. canina	Hackberry	N	2	0	X			X	X	X	X				
Celtis occidentalis var. occidentalis	Hackberry	N		0	X	X	X								
Celtis tenuifolia var. tenuifolia	Dwarf hackberry	N	2	0	X	X				X	X				
Centunculus minimus See: Anagallis minima															
Cephalanthus occidentalis var. occidentalis	Buttonbush	N	1	0	X	X	X							X	
Cerastium arvense var. villosum	Field mouse-eared chickweed	N	2	0	X	X	X	X	X			X			
Cerastium fontanum (Cerastium vulgatum)	Common mouse-eared chickweed	E	2	0	X	X					X	X			
Cercis canadensis	Redbud	N	2	0	X	X	X	X	X	X	X				
Chaerophyllum procumbens var. procumbens	Wild chervil	N	3	0	X			X	X	X					
Chamaecrista fasciculata var. fasciculata (Cassia fasciculata)	Partridge pea	N	L3	0	X	X	X				X	X			
Chamaecrista nictitans (Cassia nictitans)	Small partridge pea, sensitive pea	N	L2	0	X		X					X			
Chamaesyce humistrata (Euphorbia humistrata)	Spreading spurge	N	1	0	X									X	
Chamaesyce maculata (Chamaesyce supina, Euphorbia maculata, Euphorbia supina)	Spotted creeping spurge	N	L3	0	X	X	X							X	This is a small, mat-forming species – not to be confused with the similar but larger Chamaesyce nutans, which has also been named Euphorbia maculata.
Chasmanthium latifolium (Uniola latifolia)	Inland oats	N	L5	0	X	X	X	X	X	X	X	X			
Cheilanthes lanosa	Hairy lip fern	N	L2	0	X	X	X				X				
Chenopodium album	Lamb's quarters	E	–	0		X								X	
Chenopodium ambrosioides	Mexican tea	E	L2	0	X	X								X	
Chrysanthemum leucanthemum See: Leucanthemum vulgare															
Cicuta maculata	Water hemlock	N	2	0	X	X	X	X				X			
Cimicifuga rubifolia	Appalachian bugbane, black cohosh	N	1	0	X		X		X						Appalachian bugbane is a State Threatened species. Location: N 37 degrees 32.0893 minutes, W 88 degrees 32.2009 minutes.
Cinna arundinacea	Wood reed grass, stout wood reed	N	L3	0	X	X	X	X	X			X			
Circaea lutetiana ssp. canadensis	Enchanter's nightshade	N	L3	0	X	X	X	X	X	X					
Cirsium altissimum	Tall thistle	N	2	0	X	X	X		X	X		X			
Cirsium discolor	Field thistle, pasture thistle	N	2	0	X	X	X					X			
Claytonia virginica	Spring beauty	N	3	0	X		X		X	X					

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Clematis virginiana	Virgin's bower	N	2	0	X	X	X	X	X			X			
Commelina communis	Common day flower	E	L3	0	X	X	X	X						X	
Conoclinium coelestinum (Eupatorium coelestinum)	Mist flower	N	3	0	X			X	X	X	X	X		X	
Conyza canadensis (Erigeron canadensis)	Horseweed, mare's tail	N	2	0	X	X	X	X	X	X	X	X			
Coreopsis pubescens	Tickseed	N	L2	0	X		X							X	
Coreopsis tripteris var. tripteris	Tall coreopsis, tall tickseed	N	2	0	X	X	X	X	X	X	X	X			
Cornus florida	Flowering dogwood	N	4	0	X	X	X	X	X	X	X	X			
Cornus obliqua	Pale dogwood	N	1	0	X		X							X	
Corydalis flavula	Pale corydalis	N	L3	0	X		X		X	X					
Corylus americana	American hazel	N	1	0	X		X		X						
Crataegus pruinosa (Crataegus mackenzii, Crataegus rugosa)	Frosted hawthorn	N	2	0	X		X		X	X	X				
Crotalaria sagittalis	Rattlebox	N	–	0		X						X			
Croton capitatus	Woolly croton, hogwort	N	1	0	X	X	X				X				
Crotonopsis elliptica	Elliptical rushfoil	N	L3	0	X	X	X	X			X	X			
Cryptotaenia canadensis	Honewort	N	2	0	X	X	X	X	X	X					
Cunila origanoides	Dittany	N	L3	0	X		X		X	X	X				
Cuscuta cuspidata	Cusp dodder	N	1	0	X		X					X			
Cuscuta gronovii var. gronovii	Common dodder	N	2	0	X			X	X			X			
Cynanchum laeve See: Ampelamus albidus															
Cyperus densicaespitosus See: Kyllinga pumila															
Cyperus echinatus (Cyperus ovularis)	Round-headed flatsedge, globe nut sedge	N	2	0	X	X	X			X		X		X	
Cyperus erythrorhizos	Red-rooted flatsedge	N	1	0	X									X	
Cyperus strigosus	Straw-colored flatsedge	N	L3	0	X							X		X	
Cystopteris protrusa (Cystopteris fragilis var. protrusa)	Fragile fern	N	3	0	X	X	X	X	X	X	X				
Dactylis glomerata	Orchard grass	E	2	0	X	X	X					X			
Danthonia spicata	Curly grass, poverty oat grass	N	L3	0	X	X	X		X	X	X	X			
Datura stramonium	Jimson weed	E	1	0	X		X							X	
Daucus carota	Wild carrot, Queen Anne's lace	E	L3	0	X	X	X					X			
Delphinium tricorne	Dwarf larkspur	N	L2	0	X		X		X						
Dentaria laciniata	Toothwort	N	3	0	X		X		X	X					
Deparia acrostichoides (Athyrium thelypterioides)	Silvery spleenwort	N	1	0	X		X		X						
Desmodium canadense	Showy tick trefoil	N	2	0	X						X	X			
Desmodium canescens	Hoary tick trefoil	N	2	0	X	X						X			
Desmodium ciliare	Hairy small-leaved tick trefoil	N	2	0	X	X	X					X			
Desmodium glabellum	Smooth tick trefoil	N	1	0	X	X	X					X			
Desmodium laevigatum	Glaucous tick trefoil	N	1	0	X					X		X			
Desmodium marilandicum	Smooth small-leaved tick trefoil	N	2	0	X		X					X			

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Desmodium nudiflorum	Bare-stemmed tick trefoil	N	1	0	X		X		X						
Desmodium paniculatum	Panicled tick trefoil	N	3	0	X	X	X	X	X	X	X	X			
Desmodium rotundifolium	Round-leaved tick trefoil	N	1	0	X		X		X						
Dianthera americana See: Justicia americana															
Dianthus armeria	Deptford pink	E	2	0	X	X	X				X	X			
Diarrhena obovata (Diarrhena americana)	Beak grass	N	L5	0	X	X	X	X	X	X	X				
Dicentra cucullaria	Dutchman's breeches	N	2	0	X		X		X						
Dichanthelium acuminatum var. fasciculatum (Panicum lanuginosum var. fasciculatum, Panicum tennesseense)	Old-field panic grass	N	3	0	X	X	X				X	X			
Dichanthelium boscii var. boscii	Large-fruited panic grass	N	2	0	X	X	X	X	X	X	X	X			
Dichanthelium clandestinum (Panicum clandestinum)	Deer-tongue grass	N	L5	0	X	X		X	X	X	X	X			Deer-tongue grass strongly dominates large parts of the bottomland fields.
Dichanthelium commutatum var. commutatum (Panicum commutatum var. commutatum)	Broad-leaved panic grass	N	L3	0	X	X				X	X	X			
Dichanthelium depauperatum (Panicum depauperatum)	Starved panic grass	N	L2	0	X						X				
Dichanthelium dichotomum (Panicum barbulatum, Panicum dichotomum)	Forked panic grass	N	–	0		X	X				X				
Dichanthelium laxiflorum (Panicum laxiflorum, Panicum xalapense)	Loose-flowered panic grass	N	L2	0	X	X	X				X	X			
Dichanthelium malacophyllum (Panicum malacophyllum)	Soft-leaved panic grass	N	1	0	X	X	X				X				
Dichanthelium microcarpon (Panicum microcarpon)	Small-fruited panic grass	N	3	0	X	X	X	X	X			X			
Dichanthelium polyanthes (Panicum polyanthes)	Round-fruited panic grass	N	3	0	X	X	X	X		X		X			
Dichanthelium scoparium (Panicum scoparium)	Broom panic grass	N	L2	0	X	X	X					X			
Dichanthelium yadkinense (Panicum yadkinense)	Yadkin panic grass	N	–	0		X		X	X						This grass is a State Endangered species. Mark Basinger found it at GPS coordinates N 37.53712 degrees, W 88.53751 degrees. I was not able to find it again.
Digitaria ischaemum	Smooth crabgrass	E	L3	0	X		X							X	
Digitaria sanguinalis	Hairy crabgrass, common crabgrass	E	–	0		X	X							X	
Diodia teres var. teres	Rough buttonweed	N	L3	0	X	X	X				X	X			
Dioscorea oppositifolia (Dioscorea batatas, Dioscorea polystachya)	Chinese yam	E	L3	3	X	X		X				X			Chinese yam is thinly scattered along the banks of Lusk Creek through the entire tract, especially in canebrakes and partially shaded areas.
Dioscorea quaternata var. quaternata	Wild yam	N	3	0	X		X	X	X	X	X				
Dioscorea villosa	Wild yam	N	L2	0	X		X		X						
Diospyros virginiana var. pubescens	Persimmon	N	3	0	X			X	X	X	X	X			
Diospyros virginiana var. virginiana	Persimmon	N		0	X	X	X								

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Diplazium pycnocarpon (Athyrium pycnocarpon)	Glade fern	N	1	0	X		X		X						
Dodecatheon frenchii	French's shooting star	N	L5	0	X		X						X		This is a State Threatened species. In 2010 it flowered abundantly beneath the overhang south of the cabin site (N 37 degrees 32.2535 minutes, W 88 degrees 32.2256 minutes).
Dodecatheon meadia	Shooting star	N	L2	0	X	X	X		X	X					
Draba reptans	Common whitlow grass	N	2	0	X							X			
Dryopteris goldiana	Goldie's fern	N	1	0	X		X		X						John Schwegman first found this patch of rare fern in the 1960s. Location: N 37 degrees 32.0297 minutes, W 88 degrees 32.1378 minutes.
Dryopteris hexagonoptera See: Phegopteris hexagonoptera															
Dryopteris marginalis	Marginal shield fern	N	L3	0	X	X	X		X	X			X		
Echinochloa muricata var. muricata (Echinochloa pungens var. pungens)	Barnyard grass	N	L3	0	X		X	X				X		X	
Echinochloa muricata var. wiegandii (Echinochloa pungens var. wiegandii)	Wild millet	N	L3	0	X			X				X		X	
Eclipta prostrata (Eclipta alba)	Yerba de tajo, false daisy	N	L2	0	X		X			X				X	
Elaeagnus umbellata	Autumn olive	E	L3	3	X	X		X	X	X		X			
Eleocharis ovata var. obtusa (Eleocharis obtusa)	Blunt spike rush	N	L3	0	X	X	X							X	Bill Hopkins listed Eleocharis engel-mannii, which is now classified as Eleocharis obtusa var. detonsa. He did not list Eleocharis obtusa from his Lusk Creek study area.
Eleocharis verrucosa (Eleocharis tenuis var. verrucosa)	Slender spike rush	N	L3	0	X	X	X				X				
Elephantopus carolinianus	Elephant's foot	N	3	0	X	X	X	X	X	X	X	X			
Eleusine indica	Goose grass	E	1	0	X		X							X	
Elymus hystrix var. hystrix (Hystrix patula)	Bottlebrush grass	N	2	0	X	X	X	X	X	X	X	X			
Elymus riparius	Riverbank wild rye	N	2	0	X	X		X							
Elymus villosus	Silky wild rye	N	2	0	X	X		X	X		X				
Elymus virginicus var. glabriflorus	Virginia wild rye	N	2	0	X	X	X					X			
Elymus virginicus var. virginicus	Virginia wild rye	N	2	0	X	X	X	X	X		X	X			
Equisetum arvense	Common horsetail, scouring rush	N	1	0	X	X	X							X	
Eragrostis pectinacea	Love grass	N	L2	0	X		X				X	X			
Eragrostis spectabilis	Tumble grass	N	L3	0	X		X				X	X			
Erechtites hieracifolia var. hieracifolia	White fireweed	N	2	0	X	X	X	X	X	X	X	X			
Erigeron annuus	Annual fleabane	N	3	0	X	X		X	X			X			
Erigeron canadensis See: Conyza canadensis															
Erigeron philadelphicus	Marsh fleabane, Philadelphia fleabane	N	2	0	X			X	X	X	X	X			
Erigeron strigosus	Daisy fleabane	N	3	0	X	X	X					X			
Erythronium albidum	White dog-toothed violet, white trout lily, white adder's tongue	N	L2	0	X		X		X						

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Euonymus atropurpureus	Wahoo, burning bush	N	2	0	X	X	X	X	X	X	X				
Eupatoriadelphus fistulosus (Eupatorium fistulosum)	Hollow Joe Pye weed, trumpet weed	N	L3	0	X	X	X	X						X	
Eupatorium coelestinum See: Conoclinium coelestinum															
Eupatorium perfoliatum	Common boneset, perfoliate boneset	N	2	0	X	X	X				X	X		X	
Eupatorium rugosum See: Ageratina altissima															
Eupatorium serotinum	Late boneset	N	L3	0	X	X	X	X	X	X	X	X			
Euphorbia corollata var. corollata	Flowering spurge	N	2	0	X	X	X				X	X			
Euphorbia humistrata See: Chamaesyce humistrata															
Euphorbia maculata See: Chamaesyce maculata															
Euphorbia supina See: Chamaesyce maculata															
Euthamia graminifolia var. nuttallii (Solidago graminifolia var. nuttallii)	Grass-leaved goldenrod	N	L4	0	X	X						X			
Fagus grandifolia var. caroliniana	American beech	N	1	0	X		X		X		X				I found three beech saplings on mesic slopes east of Lusk Creek and two seedlings in dry forest bordering the sandstone glade.
Fallopia cristata (Polygonum scandens var. cristata)	Crested bindweed	N	3	0	X		X	X				X			
Fallopia scandens (Polygonum scandens var. scandens)	Climbing buckwheat	N	2	0	X		X					X			
Festuca arundinacea (Festuca elatior var. arundinacea)	Tall fescue	E	L5	0	X	X	X				X	X			
Festuca octoflora var. octoflora See: Vulpia octoflora var. octoflora															
Festuca subverticillata (Festuca obtusa)	Nodding fescue	N	2	0	X	X			X			X			
Fimbristylis autumnalis	Autumn fimbry	N	1	0	X		X							X	
Frangula caroliniana (Rhamnus caroliniana)	Carolina buckthorn	N	1	0	X		X		X	X		X			
Frasera caroliniensis (Swertia caroliniensis)	American columbo	N	1	0	X		X			X					
Fraxinus americana var. americana	White ash	N	4	0	X	X	X	X	X	X	X				
Fraxinus pennsylvanica	Red ash	N	1	0	X		X	X							
Galium aparine var. aparine	Cleavers, goose grass, annual bedstraw	N	3	0	X	X	X	X	X	X	X	X			
Galium circaezans var. hypomalacum	Hairy wild licorice	N	3	0	X	X	X		X	X	X				
Galium concinnum	Shining bedstraw	N	2	0	X	X	X		X	X	X				
Galium obtusum	Wild madder	N	1	0	X		X					X			
Galium pilosum	Hairy bedstraw, wild madder	N	2	0	X	X	X				X	X			
Galium triflorum	Sweet-scented bedstraw	N	–	0		X		X	X						
Gamochaeta purpurea (Gnaphalium purpureum)	Early cudweed, purplish cudweed	N	2	0	X	X					X	X			
Geranium carolinianum	Carolina cranesbill	N	2	0	X	X	X				X	X			
Geranium maculatum	Wild geranium	N	L3	0	X	X	X		X						

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Gerardia fasciculata See: Agalinis fasciculata															
Gerardia tenuifolia See: Agalinis tenuifolia															
Geum canadense var. canadense	White avens	N	L3	0	X	X	X	X	X	X	X	X			
Geum vernum	Spring avens	N	L2	0	X		X		X	X					
Gillenia stipulata See: Porteranthus stipulatus															
Gleditsia triacanthos	Honey locust	N	1	0	X	X	X	X		X					
Glyceria striata var. striata	Fowl manna grass	N	2	0	X		X	X				X		X	
Gnaphalium obtusifolium See: Pseudognaphalium obtusifolium															
Gnaphalium purpureum See: Gamochaeta purpurea															
Gonolobus obliquus See: Matelea obliqua															
Gratiola neglecta	Clammy hedge hyssop	N	1	0	X	X					X			X	
Habenaria lacera See: Platanthera lacera															
Hedeoma pulegioides	American pennyroyal	N	–	0		X	X				X				
Helenium flexuosum (Helenium nudiflorum)	Purple sneezeweed	N	L2	0	X	X	X					X			
Helianthus divaricatus	Woodland sunflower	N	L4	0	X	X	X		X	X	X	X			
Helianthus hirsutus	Hispid sunflower	N	1	0	X							X			
Helianthus microcephalus	Small-headed sunflower	N	L3	0	X		X	X				X			
Helianthus tuberosus var. tuberosus	Jerusalem artichoke	N	L2	0	X							X			
Heliopsis helianthoides var. helianthoides	False sunflower, ox-eye	N	1	0	X		X	X						X	
Hepatica acutiloba	Sharp-lobed hepatica	N	1	0	X		X		X				X		
Heuchera americana var. hirsuticaulis	Common alumroot, tall alumroot	N	L3	0	X	X	X			X	X				
Heuchera parviflora var. rugelii	Small-flowered alumroot	N	3	0	X	X	X						X		
Hieracium gronovii	Hairy hawkweed	N	2	0	X		X			X	X				
Hieracium longipilum	Long-bearded hawkweed	N	1	0	X							X			
Houstonia lanceolata	Lance-leaved bluets	N	1	0	X						X				
Houstonia pusilla	Small bluets	N	L2	0	X	X	X				X				
Humulus lupulus var. lupuloides	Hops	N	L2	0	X			X				X			
Hybanthus concolor	Green violet	N	L3	0	X	X	X	X	X	X					
Hydrangea arborescens	Wild hydrangea	N	L3	0	X	X	X	X	X				X		
Hydrastis canadensis	Goldenseal	N	2	0	X	X	X	X	X						
Hydrophyllum canadense	Broad-leaved waterleaf	N	L5	0	X				X						
Hydrophyllum virginianum	Virginia waterleaf	N	L3	0	X		X		X				X		
Hypericum drummondii	Nits-and-lice	N	1	0	X		X					X			
Hypericum gentianoides	Pineweed, orange-grass	N	L2	0	X	X	X				X	X			
Hypericum mutilum	Dwarf St. John's wort	N	3	0	X	X	X	X		X	X	X		X	
Hypericum prolificum	Shrubby St. John's wort	N	2	0	X	X	X	X	X	X	X				
Hypericum punctatum	Spotted St. John's wort	N	L3	0	X	X	X	X	X		X	X			

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Hypericum stragulum See: Ascyrum multicaule															
Hypoxis hirsuta	Yellow star grass	N	1	0	X		X				X				
Hystrix patula See: Elymus hystrix															
Ilex decidua	Deciduous holly, possum haw	N	2	0	X		X		X	X		X			
Impatiens capensis (Impatiens biflora)	Orange touch-me-not, spotted jewelweed	N	L4	0	X	X	X	X	X			X		X	
Impatiens pallida	Pale touch-me-not, yellow jewelweed	N	1	0	X		X		X						
Ipomoea hederacea	Ivy-leaved morning glory	E	1	0	X	X	X							X	
Ipomoea lacunosa	Small white morning glory	N	L2	0	X	X	X							X	
Ipomoea pandurata	Wild sweet potato	N	2	0	X	X	X					X			
Ipomoea purpurea	Common morning glory	E	1	0	X		X							X	
Isoetes melanopoda (Isoetes butleri)	Black quillwort	N	–	0		X	X				X				
Iva annua (Iva ciliata)	Marsh elder, sumpweed, false ragweed	N	L3	0	X	X		X				X			
Juglans nigra	Black walnut	N	3	0	X	X	X	X	X	X	X				
Juncus acuminatus	Pointed rush	N	L2	0	X	X	X							X	
Juncus biflorus var. biflorus	Two-flowered rush	N	3	0	X	X	X					X			
Juncus brachycarpus	Short-fruited rush	N	2	0	X	X	X					X			
Juncus diffusissimus	Long-fruited rush	N	2	0	X	X								X	
Juncus effusus var. solutus	Soft rush	N	1	0	X	X	X							X	
Juncus interior	Inland rush	N	3	0	X	X	X					X			
Juncus marginatus	Grass-leaved rush	N	–	0		X					X				
Juncus secundus	One-sided rush	N	L2	0	X	X						X		X	
Juncus tenuis	Path rush	N	L3	0	X	X	X	X	X	X	X	X			
Juniperus virginiana	Eastern red cedar	N	3	0	X	X	X		X	X	X	X			
Jussiaea repens var. glabrescens See: Ludwigia peploides ssp. glabrescens															
Justicia americana (Dianthera americana)	Water willow	N	L5	0	X	X	X							X	
Kyllinga pumila (Cyperus densicaespitosus)	Sweet-scented flatsedge	N	L2	0	X									X	
Koeleria macrantha (Koeleria cristata)	June grass	N	L3	0	X						X	X			
Krigia biflora	Dwarf dandelion, two-flowered Cynthia	N	2	0	X		X	X	X	X	X	X			
Kummerowia striata (Lespedeza striata)	Japanese bush clover	E	L3	0	X	X						X			
Lactuca canadensis var. canadensis	Yellow wild lettuce	N	2	0	X	X	X				X	X			
Lactuca canadensis var. latifolia	Yellow wild lettuce	N	1	0	X							X			
Lactuca floridana var. floridana	Blue wild lettuce, woodland lettuce	N	2	0	X	X	X	X	X	X	X	X			
Lactuca floridana var. villosa	Blue wild lettuce, woodland lettuce	N	1	0	X					X					
Lactuca hirsuta var. sanguinea	Hairy lettuce	N	1	0	X							X			

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Lamium purpureum	Purple dead nettle	E	1	0	X							X			
Laportea canadensis	Wood nettle	N	L3	0	X	X		X	X			X			
Lechea tenuifolia	Narrow-leaved pinweed	N	–	0		X	X					X			
Leersia lenticularis	Catchfly grass	N	L3	0	X			X						X	
Leersia virginica	White grass, cut grass	N	3	0	X	X	X	X	X	X	X	X		X	
Lepidium virginicum	Common pepper grass	N	1	0	X	X	X			X	X				
Lespedeza cuneata	Sericea lespedeza, silky bush clover	E	L3	1	X	X	X					X			
Lespedeza intermedia	Wand-like bush clover	N	1	0	X						X				I found one plant growing with Lespedeza intermedia that it appeared to be referable to Lespedeza x acuticarpa (thought to be a hybrid between L. intermedia and L. virginica). I did not find Lespedeza virginica anywhere in the study area, so the specimen may have been an aberrant Lespedeza intermedia.
Lespedeza procumbens var. elliptica	Narrow-leaved trailing bush clover	N	2	0	X		X			X	X	X			
Lespedeza repens	Creeping bush clover	N	2	0	X		X			X	X				
Lespedeza striata See: Kummerowia striata															
Leucanthemum vulgare (Chrysanthemum leucanthemum)	Ox-eye daisy	E	3	0	X	X	X				X	X			
Lilium superbum	Superb lily	N	–	0		X	X	X							Mark Basinger found this lily at GPS coordinates N 37.53475 degrees, W 88.53614 degrees. I could not find it.
Lindera benzoin var. benzoin	Spicebush	N	4	0	X			X	X	X					
Lindera benzoin var. pubescens	Spicebush	N		0	X	X	X								
Lindernia anagallidea	Slender false pimpernel	N	1	0	X									X	
Linum medium var. texanum	Small yellow flax	N	2	0	X	X	X				X	X			
Liquidambar styraciflua	Sweetgum	N	1	0	X		X					X			
Liriodendron tulipifera	Tuliptree, yellow poplar	N	L4	0	X	X	X	X	X	X	X	X			
Lithospermum latifolium	American gromwell	N	1	0	X				X						
Lobelia cardinalis	Cardinal flower	N	2	0	X		X	X						X	
Lobelia inflata	Indian tobacco	N	L3	0	X		X	X			X	X		X	
Lobelia puberula var. simulans	Downy blue lobelia	N	3	0	X	X		X	X	X	X	X			
Lonicera japonica var. japonica	Japanese honeysuckle	E	4	3	X	X	X	X	X	X	X	X	X		
Ludwigia alternifolia var. alternifolia	Seedbox	N	2	0	X	X	X	X			X	X		X	
Ludwigia peploides ssp. glabrescens (Jussiaea repens var. glabrescens)	Creeping primrose willow	N	L2	0	X	X								X	
Ludwigia palustris var. americana	Marsh purslane	N	L2	0	X									X	
Luzula multiflora	Common wood rush	N	3	0	X	X	X	X	X	X	X				
Lycopersicon esculentum	Tomato	E	1	0	X							X			A waif tomato survived most of the growing season in an old roadway.
Lycopus virginicus	Virginia bugle weed	N	L3	0	X	X	X							X	
Lysimachia lanceolata	Lance-leaved loosestrife	N	L2	0	X		X	X	X			X			
Maclura pomifera	Hedge-apple, hedge tree, Osage orange	E	1	0	X					X					
Manfreda virginica (Agave virginica, Polianthes virginica)	American aloe, American agave	N	L2	0	X	X	X				X				

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Matelea obliqua (Gonolobus obliquus)	Climbing milkweed	N	1	0	X		X			X	X				This is a State Threatened species. I found it at two places: N 37 degrees 32.2978 minutes, W 88 degrees 32.1941 minutes, and N 37 degrees 32.1507 minutes, W 88 degrees 32.0204 minutes.
Medicago lupulina	Black medic	E	L3	0	X	X					X	X			
Melica nitens	Tall melic grass, three-flowered melic grass	N	L4	0	X	X	X				X				
Melilotus albus	White sweet clover	E	2	0	X	X	X			X	X	X			
Menispermum canadense	Moonseed	N	2	0	X	X	X	X	X	X	X	X			
Mertensia virginica	Virginia bluebells	N	L3	0	X		X	X							
Microstegium vimineum	Stilt grass	E	L4	3	X	X		X	X	X	X	X		X	
Mimulus alatus	Winged monkey flower	N	3	0	X	X	X	X						X	
Mollugo verticillata	Carpetweed	E	L2	0	X	X	X							X	
Monarda bradburiana	Bradbury's bee balm	N	L3	0	X		X		X	X	X				
Morus alba	White mulberry	E	1	0	X		X			X				X	
Morus rubra	Red mulberry	N	L2	0	X		X		X						I saw only seedling red mulberries.
Muhlenbergia frondosa	Satin grass	N	L3	0	X		X	X						X	
Muhlenbergia racemosa	Marsh muhly, upland wild timothy	N	1	0	X									X	
Muhlenbergia schreberi	Nimble Will	N	L3	0	X	X	X	X	X	X	X	X			
Muhlenbergia sobolifera	Woodland satin grass	N	L3	0	X		X	X	X	X					
Myosotis verna	Spring forget-me-not, small scorpion grass	N	2	0	X		X					X			
Nothoscordum bivalve	False garlic, crow poison	N	L3	0	X		X				X				
Nuphar advena (Nuphar luteum ssp. macrophyllum)	Yellow pond lily, spatterdock	N	L3	0	X	X	X							X	
Nyssa sylvatica var. caroliniana	Black gum, sour gum	N	2	0	X	X	X		X	X	X				
Oenothera biennis	Common evening primrose	N	1	0	X	X						X			
Oenothera linifolia	Thread-leaved sundrops	N	–	0		X	X				X				
Onoclea sensibilis	Sensitive fern	N	L2	0	X		X	X					X	X	
Opuntia humifusa (Opuntia rafinesquii)	Common prickly pear, prickly pear cactus	N	L3	0	X	X	X				X				
Osmorhiza longistylis var. longistylis	Sweet cicely, anise root	N	2	0	X	X	X	X	X	X					
Ostrya virginiana var. lasia	Hop hornbeam	N	4	0	X		X		X	X	X				
Ostrya virginiana var. virginiana	Hop hornbeam	N		0	X	X	X								
Oxalis fontana (Oxalis stricta)	Yellow wood sorrel, sour grass	N	2	0	X	X	X	X	X	X	X	X			
Oxalis stricta (Oxalis dillenii)	Yellow wood sorrel, sour grass	N	2	0	X	X	X	X			X	X			
Oxalis violacea	Violet wood sorrel	N	2	0	X		X		X	X	X				
Panax quinquefolius	Ginseng	N	2	0	X		X		X	X	X				Ginseng is thinly and widely scattered on the wooded slopes on the east side of Lusk Creek.
Panicum anceps	Beaked panic grass	N	3	0	X	X	X					X		X	
Panicum dichotomiflorum var. dichotomiflorum	Fall panicum	N	3	0	X		X					X		X	
Panicum flexile	Slender panic grass	N	1	0	X									X	
Panicum virgatum	Switch grass	N	1	0	X							X			

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Panicum species other than the above See: Dichanthelium															
Parietaria pensylvanica	Pellitory	N	L3	0	X	X	X		X	X	X		X		
Parthenocissus quinquefolia	Virginia creeper, woodbine	N	4	0	X	X	X	X	X	X	X		X		
Paspalum laeve	Bead grass	N	L2	0	X		X					X			
Paspalum setaceum var. setaceum	Slender bead grass	N	L2	0	X	X					X				
Pedicularis canadensis var. canadensis	Lousewort, wood betony	N	2	0	X		X	X				X			
Penstemon pallidus	Pale beardtongue	N	2	0	X	X	X		X		X	X			
Penthorum sedoides	Ditch stonecrop	N	L2	0	X		X							X	
Perilla frutescens var. frutescens	Beefsteak plant	E	L3	0	X	X	X	X	X			X			
Persicaria cespitosa (Polygonum cespitosum var. longisetum)	Creeping smartweed	E	L4	0	X	X		X				X		X	
Persicaria pensylvanica var. pensylvanica (Polygonum pensylvanicum var. pensylvanicum)	Pink smartweed, Pennsylvania smartweed	N	2	0	X		X					X		X	
Persicaria punctata (Polygonum punctatum)	Spotted smartweed	N	L3	0	X		X					X		X	
Persicaria vulgaris (Polygonum persicaria)	Lady's thumb	E	L3	0	X	X		X				X		X	
Phacelia purshii	Miami mist	N	L3	0	X	X	X	X	X		X	X			
Phalaris arundinacea	Reed canary grass	E	L4	0	X	X		X						X	
Phaseolus polystachios	Wild kidney bean	N	1	0	X							X			
Phegopteris hexagonoptera (Dryopteris hexagonoptera, Thelypteris hexagonoptera)	Broad beech fern	N	2	0	X	X	X	X	X						
Phleum pratense	Timothy	E	2	0	X	X	X					X			
Phlox divaricata ssp. laphamii	Blue phlox, woodland phlox	N	L3	0	X	X	X		X	X					
Phlox glaberrima ssp. interior	Smooth phlox	N	L2	0	X	X	X	X				X			
Phlox paniculata	Garden phlox	N	L2	0	X		X	X							
Phryma leptostachya	Lopseed	N	2	0	X		X		X	X					
Physalis pruinosa	Ground cherry	N	L2	0	X							X		X	
Phytolacca americana	Pokeweed	N	2	0	X	X	X	X	X	X	X	X			
Pilea pumila	Clearweed, richweed	N	L3	0	X	X	X	X	X	X	X			X	
Pinus echinata	Shortleaf pine	NI	2	0	X	X			X	X	X	X			Shortleaf pine is native to extreme southern Illinois but only near the Mississippi River. It has spread to the Illinois Audubon Society's property from trees that were planted nearby.
Plantago lanceolata	Buckhorn, narrow-leaved plantain	E	L3	0	X	X	X					X			
Plantago rugelii	Rugel's plantain	N	L3	0	X	X	X	X	X	X	X	X			
Plantago virginica	Virginia plantain	N	L3	0	X	X	X				X	X			
Platanthera lacera (Habenaria lacera)	Green fringed orchid	N	1	0	X			X				X			Jody Shimp and Terri Treacy found one plant in the bottomland forest. I found one in the northwest field and one in a lower field near the trailer.
Platanus occidentalis	Sycamore	N	L3	0	X	X	X	X	X			X		X	
Poa compressa	Canada bluegrass	E	3	0	X	X	X	X	X	X	X	X			

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Poa pratensis	Kentucky bluegrass	E	3	0	X	X	X	X	X	X	X	X			
Poa sylvestris	Woodland bluegrass	N	3	0	X	X	X	X	X	X	X				
Podophyllum peltatum	Mayapple	N	2	0	X	X	X		X	X					
Polemonium reptans	Jacob's ladder	N	2	0	X		X	X	X	X					
Polianthes virginica See: Manfreda virginica															
Polygala sanguinea	Field milkwort	N	L2	0	X	X	X					X			
Polygonatum biflorum	Small Solomon's seal	N	3	0	X	X	X	X	X	X					
Polygonatum commutatum	Solomon's seal	N	1	0	X			X							
Polygonum arenastrum (Polygonum aviculare)	Sidewalk knotweed	E	–	0		X								X	
Polygonum cespitosum var. longisetum See: Persicaria cespitosa															
Polygonum pensylvanicum var. pensylvanicum See: Persicaria pensylvanica var. pensylvanica															
Polygonum persicaria See: Persicaria vulgaris															
Polygonum punctatum See: Persicaria punctata															
Polygonum sagittatum See: Tracaulon sagittatum															
Polygonum scandens var. cristata See: Fallopia cristata															
Polygonum scandens var. scandens See: Fallopia scandens															
Polygonum tenue	Slender knotweed	N	–	0		X	X				X				
Polygonum virginianum See: Antenoron virginianum															
Polypodium virginianum	Common polypody	N	1	0	X		X						X		
Polystichum acrostichoides	Christmas fern	N	3	0	X	X	X	X	X	X	X				
Populus deltoides	Eastern cottonwood	N	1	0	X		X							X	
Porteranthus stipulatus (Gillenia stipulata)	Indian physic	N	2	0	X		X			X	X				
Potentilla simplex var. simplex	Common cinquefoil, old-field cinquefoil	N	2	0	X	X	X	X	X	X	X	X			
Prenanthes altissima	Tall white lettuce	N	2	0	X		X		X	X			X		
Prenanthes aspera	Rough white lettuce	N	L2	0	X							X			
Prenanthes crepidinea	Great white lettuce	N	1	0	X				X						
Prunella vulgaris var. elongata	Self-heal, heal-all	N	2	0	X	X	X	X	X	X	X	X			
Prunella vulgaris var. vulgaris	Self-heal, heal-all	E		0	X										
Prunus americana (Prunus lanata)	Wild plum	N	1	0	X		X		X	X					
Prunus serotina	Wild black cherry	N	3	0	X	X	X	X	X	X	X				
Pseudognaphalium obtusifolium (Gnaphalium obtusifolium)	Sweet everlasting, old-field balsam	N	2	0	X		X		X	X		X			
Pycnanthemum pycnanthemoides	Mountain mint	N	1	0	X			X				X			
Pycnanthemum tenuifolium (Pycnanthemum flexuosum)	Slender mountain mint	N	2	0	X	X	X	X		X	X	X			

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Quercus alba	White oak	N	4	0	X	X	X	X	X	X	X				
Quercus coccinea	Scarlet oak	N	L2	0	X	X	X			X	X				
Quercus imbricaria	Shingle oak	N	3	0	X	X	X		X	X	X				
Quercus marilandica	Blackjack oak	N	1	0	X	X	X				X				
Quercus muhlenbergii	Chinquapin oak, yellow chestnut oak	N	3	0	X		X	X	X	X	X				
Quercus rubra	Red oak	N	3	0	X	X	X	X	X	X	X				
Quercus stellata	Post oak	N	3	0	X	X	X			X	X				
Quercus velutina	Black oak	N	3	0	X		X	X	X	X	X				
Ranunculus abortivus var. abortivus	Small-flowered buttercup, kidney-leaved crowfoot	N	3	0	X			X	X	X	X	X			
Ranunculus recurvatus	Hooked buttercup	N	2	0	X	X		X	X						
Ranunculus sardous	Sardinia buttercup	E	2	0	X	X		X		X				X	
Rhamnus caroliniana See: Frangula caroliniana															
Rhus copallina	Winged sumac, shining sumac	N	2	0	X	X	X				X	X			
Rhus glabra	Smooth sumac	N	1	0	X		X		X						
Rhus radicans See: Toxicodendron radicans															
Robinia pseudoacacia	Black locust	NI	1	0	X	X		X							Black locust is native to bluffs and ravines bordering the Ohio River, but it has been widely planted and is adventive elsewhere in Illinois. It can be a high management concern in some habitats, but it does not appear to be any threat on this property.
Rorippa palustris (Rorippa islandica)	Marsh yellow cress	N	L2	0	X									X	
Rosa carolina	Pasture rose	N	L2	0	X		X				X				
Rosa multiflora	Multiflora rose	E	3	0	X	X	X	X	X	X	X	X			Multiflora rose is fairly common at the site, but it does not dominate anywhere. It is no longer a management concern because it is being kept in check by disease.
Rosa setigera var. tomentosa	Prairie rose	N	1	0	X		X				X	X			
Rotala ramosior	Tooth-cup	N	1	0	X									X	
Rubus allegheniensis	Common blackberry, Allegheny blackberry	N	3	0	X	X		X	X	X	X	X			
Rubus enslenii	Arching dewberry	N	2	0	X	X	X				X	X			
Rubus flagellaris	Common dewberry	N	2	0	X	X	X				X	X			
Rubus occidentalis	Black raspberry	N	2	0	X	X	X	X	X	X	X	X			
Rubus pensilvanicus	Blackberry	N	1	0	X	X						X			
Rudbeckia hirta var. hirta	Black-eyed Susan	N	L3	0	X	X	X				X	X			
Rudbeckia laciniata	Goldenglow	N	L4	0	X	X	X	X							
Rudbeckia triloba	Brown-eyed Susan	N	2	0	X		X	X				X			
Ruellia humilis	Wild petunia	N	L3	0	X	X	X				X	X			
Rumex acetosella	Sour dock, field sorrel	E	L3	0	X	X	X				X	X			
Rumex crispus	Curly dock	E	2	0	X	X	X	X				X			
Rumex obtusifolius	Bitter dock, broad-leaved dock	E	2	0	X	X	X	X				X			

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Sabatia angularis (Sabatia angulatus in Mohlenbrock 2002*b*)	Rose gentian, rose pink, marsh pink	N	L2	0	X		X					X			
Salix nigra	Black willow	N	L2	0	X		X							X	
Salvia lyrata	Lyre-leaved sage	N	2	0	X	X	X	X	X			X			
Sambucus canadensis var. canadensis	Elderberry	N	2	0	X	X	X	X	X	X	X	X			
Sambucus canadensis var. submollis	Elderberry	N		0	X										
Sanguinaria canadensis	Bloodroot	N	3	0	X	X	X		X	X					
Sanicula canadensis var. canadensis	Canada black snakeroot	N	3	0	X	X	X	X	X	X	X				
Sanicula odorata (Sanicula gregaria)	Clustered black snakeroot, common black snakeroot	N	–	0		X		X							
Sassafras albidum var. albidum	Sassafras	N	4	0	X	X	X	X	X	X	X	X			
Sassafras albidum var. molle	Red sassafras	N		0	X										
Schizachyrium scoparium (Andropogon scoparius)	Little bluestem	N	L4	0	X	X	X				X	X			
Scirpus cyperinus (Scirpus rubicosus)	Wool grass	N	1	0	X	X	X							X	
Scirpus georgianus (Scirpus atrovirens var. georgianus)	Dark-green bulrush	N	L2	0	X	X	X					X		X	
Scrophularia marilandica	Late figwort, Maryland figwort	N	2	0	X			X	X						
Scutellaria elliptica	Hairy skullcap	N	2	0	X		X	X	X	X	X	X			
Scutellaria incana	Downy skullcap	N	1	0	X		X		X						
Sedum pulchellum	Widow's cross	N	L3	0	X	X	X				X				
Sedum ternatum	Three-leaved stonecrop	N	1	0	X		X						X		There is a stonecrop colony on a boulder at the base of the slope south of the cabin site.
Senecio aureus var. gracilis	Golden ragwort	N	L3	0	X	X	X							X	
Senecio glabellus	Butterweed	N	3	0	X		X	X	X	X	X	X			
Senna marilandica (Cassia marilandica)	Wild senna, Maryland senna	N	2	0	X		X	X	X	X	X	X			
Setaria faberi	Giant foxtail	E	1	0	X	X	X					X		X	
Setaria geniculata	Perennial foxtail	N	L2	0	X							X			
Setaria glauca (Setaria lutea, Setaria lutescens)	Yellow foxtail	E	1	0	X		X				X			X	
Sicyos angulatus	Bur cucumber	N	2	0	X			X	X			X			
Sida spinosa	Prickly sida	E	1	0	X									X	
Silene stellata	Starry campion	N	2	0	X	X	X	X	X	X	X	X			
Silphium perfoliatum	Cup plant	N	1	0	X		X	X							
Sisyrinchium albidum	Common blue-eyed grass	N	2	0	X			X			X	X			
Smilacina racemosa	False Solomon's seal	N	2	0	X	X	X		X	X					
Smilax bona-nox var. bona-nox	Saw greenbrier, good-night catbrier	N	L3	0	X	X	X		X	X	X	X			
Smilax bona-nox var. hederaefolia	Saw greenbrier, good-night catbrier	N	1	0	X						X				
Smilax glauca var. leurophylla	Glaucous greenbrier	N	2	0	X	X	X		X		X	X			
Smilax pulverulenta	Powdery carrion flower	N	–	0		X			X						
Smilax rotundifolia	Round-leaved greenbrier	N	L2	0	X		X		X	X	X				

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Smilax tamnoides var. hispida (Smilax hispida)	Bristly greenbrier	N	2	0	X	X	X	X	X	X	X				
Solanum carolinense	Horse nettle	N	2	0	X	X	X	X			X	X			
Solanum ptycanthum (Solanum ptychanthum in Mohlenbrock 2002*b*) (Solanum americanum, Solanum nigrum)	Black nightshade	N	1	0	X									X	
Solidago altissima (Solidago canadensis)	Tall goldenrod	N	L5	0	X	X		X			X	X			
Solidago buckleyi	Buckley's goldenrod	N	L3	0	X	X	X		X	X	X				
Solidago caesia	Blue goldenrod, woodland goldenrod	N	L3	0	X	X	X	X	X	X	X		X		
Solidago flexicaulis	Broadleaf goldenrod, zigzag goldenrod	N	1	0	X		X		X						
Solidago gigantea var. leiophylla	Smooth late goldenrod	N	L4	0	X	X		X				X			
Solidago graminifolia var. nuttallii See: Euthamia graminifolia var. nuttallii															
Solidago juncea	Early goldenrod	N	L2	0	X	X	X					X			
Solidago missouriensis var. fasciculata	Missouri goldenrod	N	L3	0	X		X					X			
Solidago nemoralis	Gray goldenrod, old-field goldenrod	N	3	0	X	X	X				X	X			
Solidago rugosa var. rugosa	Rough-leaved goldenrod	N	3	0	X	X	X	X	X	X	X	X			
Solidago ulmifolia	Elm-leaved goldenrod	N	3	0	X	X			X	X	X				
Sorghum halepense	Johnson grass	E	1	2	X	X	X					X			I found one plant in the field below the cabin site. It was weak and sterile, not competing well against vigorous native herbage.
Specularia perfoliata See: Triodanis perfoliata															
Sphenopholis obtusata	Wedge grass	N		0		X	X				X	X			
Spigelia marilandica	Indian pink	N	1	0	X		X	X		X	X				
Sporobolus vaginiflorus	Poverty grass	N	–	0		X					X	X			
Stachys tenuifolia	Smooth hedge nettle	N	2	0	X		X	X	X						
Staphylea trifolia	Bladdernut	N	L3	0	X	X	X	X	X	X					
Stellaria media	Common chickweed	E	L3	0	X			X	X	X	X	X	X		
Strophostyles umbellata	Wild bean	N	L2	0	X		X					X			
Stylosanthes biflora	Pencil flower	N	2	0	X	X	X				X	X			
Swertia caroliniensis See: Frasera caroliniensis															
Symphiotrichum See: Aster															
Symphoricarpos orbiculatus	Coralberry, buckbrush	N	3	0	X	X	X	X	X	X	X	X			
Tephrosia virginiana var. holosericea	Goat's rue	N	1	0	X		X				X				
Teucrium canadense	American germander	N	L3	0	X	X	X	X				X			
Thalictrum dasycarpum	Meadow rue	N	2	0	X	X	X	X				X			
Thalictrum revolutum	Waxy meadow rue	N	1	0	X			X							
Thelypteris hexagonoptera See: Phegopteris hexagonoptera															

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Thlaspi perfoliatum	Perfoliate penny cress	E	L2	0	X						X				
Tilia americana	American basswood	N	L3	0	X		X	X	X						
Tovara virginiana See: Antenoron virginianum															
Toxicodendron radicans var. negundo (Rhus radicans var. negundo)	Poison ivy	N	5	0	X	X	X	X	X	X	X	X	X		
Toxicodendron radicans var. radicans (Rhus radicans var. radicans)	Poison ivy	N	2	0	X				X	X					
Tracaulon sagittatum (Polygonum sagittatum)	Tear thumb	N	L3	0	X		X	X	X			X		X	
Tradescantia subaspera var. subaspera	Broad-leaved spiderwort	N	3	0	X	X	X	X	X	X	X				
Tradescantia virginiana	Virginia spiderwort	N	L2	0	X		X			X					
Trichostema dichotomum	Blue curls, false pennyroyal	N	L3	0	X		X				X				
Tridens flavus (Triodia flava)	Purple-top	N	L3	0	X		X					X			
Trifolium campestre	Low hop clover	E	2	0	X	X						X			
Trifolium hybridum	Alsike clover	E	1	0	X	X	X							X	
Trifolium pratense var. pratense	Red clover	E	2	0	X	X	X					X			
Trifolium repens	White clover	E	2	0	X	X	X	X				X			
Trillium flexipes (Trillium gleasonii)	White trillium	N	1	0	X		X		X						
Trillium recurvatum	Purple trillium, wake robin	N	2	0	X		X		X	X	X				
Triodanis perfoliata (Specularia perfoliata)	Venus' looking glass	N	3	0	X	X	X	X			X	X			
Triodia flava See: Tridens flavus															
Uniola latifolia See: Chasmanthium latifolium															
Ulmus alata	Winged elm	N	3	0	X	X	X			X	X				
Ulmus americana	American elm	N	3	0	X		X	X	X	X	X				
Ulmus rubra	Slippery elm, red elm	N	3	0	X	X	X	X	X	X					
Uvularia grandiflora	Large-flowered bellwort, big merrybells	N	2	0	X		X		X						
Vaccinium arboreum var. arboreum	Farkleberry	N	L3	0	X	X	X				X				
Valeriana pauciflora	Pink valerian, large-flowered valerian	N	1	0	X		X	X							
Valerianella radiata var. radiata	Corn salad	N	2	0	X		X					X			
Verbascum thapsus	Great mullein, woolly mullein	E	1	0	X	X	X				X				
Verbena urticifolia var. urticifolia	White vervain	N	2	0	X	X	X	X	X	X	X	X			
Verbesina alternifolia	Yellow ironweed	N	3	0	X	X	X	X	X			X			
Verbesina helianthoides	Yellow crownbeard, yellow wingstem	N	3	0	X	X		X	X	X	X	X			
Verbesina virginica	Frostweed, white crownbeard	N	3	0	X	X	X	X	X	X	X	X			
Vernonia gigantea var. gigantea (Vernonia altissima var. altissima)	Smooth tall ironweed	N	L2	0	X		X					X			
Vernonia missurica	Missouri ironweed	N	L4	0	X	X	X	X				X			
Veronicastrum virginicum	Culver's root, candelabra plant	N	–	0		X	X		X						

Scientific name	Common name	Nat	Abn	VMC	JW	MB	BH	MFF	MUF	DMF	DFG	SF	CO	Cr	Notes
Viburnum prunifolium	Black haw	N	2	0	X		X		X	X	X				
Viola missouriensis	Missouri violet	N	2	0	X		X	X							
Viola palmata var. dilatata	Cleft violet	N	2	0	X		X			X	X				
Viola rafinesquii	Johnny-jump-up	E	L3	0	X		X				X	X			
Viola sagittata	Arrow-leaved violet	N	1	0	X						X				
Viola sororia (Viola papilionacea, Viola pratincola)	Wooly blue violet	N	L3	0	X	X	X	X	X	X					
Viola striata	Cream violet	N	2	0	X		X	X							
Vitis aestivalis var. aestivalis	Summer grape	N	2	0	X	X	X			X		X			
Vitis cinerea	Winter grape	N	L2	0	X		X			X					
Vitis riparia	Riverbank grape	N	L2	0	X			X							
Vitis vulpina	Fox grape, frost grape	N	3	0	X	X	X	X	X	X	X	X			
Vulpia octoflora var. octoflora (Festuca octoflora var. octoflora)	Six-weeks fescue	N	L4	0	X	X					X	X			
Woodsia obtusa	Common woodsia	N	3	0	X	X	X			X	X				
Woodwardia areolata	Netted chain fern	N	1	0	X								X		I found a fresh heap of this rare fern lying in the dripline of the cliff west of the cabin site, close to the property boundary (N 37 degrees 32.2356 minutes, W 88 degrees 32.2734 minutes). The fern had been growing in a cleft at the top of the over-hang; evidently runoff from a recent torrential rain tore all of it from the cliff.
Xanthium strumarium var. glabratum (Xanthium chinense)	Common cocklebur	N		0	X	X	X								
Yucca smalliana (Yucca filamentosa, Yucca flaccida)	Yucca, Spanish bayonet, Adam's needle	E	1	0	X		X					X			One yucca plant grows in the upland field close to the cabin site. It probably was planted, and it appears to have persisted untended for many years, competing well with the wild vegetation.
Zizia aurea	Golden Alexanders	N	L3	0	X	X	X	X						X	

III. ANALYSIS OF THE FLORA

Species documented by the present study and by Mark Basinger

The list of plants in Table 1 comprises 574 species. A total of 509 species are native, and 65 are non-native. For 14 of the native species, I identified two varieties. [*] In addition, a 15th species has both a native variety and a non-native variety. [†] Counting all of these species and varieties, the list has a total of 589 kinds of plants.

The plants represent 114 plant families. The largest plant families are Asteraceae (composites, 77 species), Poaceae (grasses, 74 species), Cyperaceae (sedges, 36 species), Fabaceae (peas, 28 species), Lamiaceae (mints, 19 species), and Rosaceae (roses, 18 species). The property has 20 kinds of ferns and fern allies distributed among 10 families.

The genus with the most species is *Carex* (sedges, 27 species). The next largest genera are *Dichanthelium* (panic grasses, 12 species), *Solidago* (goldenrods, 10 species), *Juncus* (rushes, 9 species), *Desmodium* (tick trefoils, 9 species), *Aster* (asters, 8 species), and *Quercus* (oaks, 8 species).

Mark Basinger identified 27 species in 2008 that I could not find again in 2010. Twelve of them are natives of sandstone glade, dry upland forest, and dry old field habitats. [‡] Four species are exotic annual weeds that were growing along the creek; they might or might not appear from year to year. [¶] The other 11 species occur in a variety of habitats. [§]

Despite the big list of species compiled by Mark and me, I was surprised not to find some species that are typical of the Shawnee Hills such as Hercules' club (*Aralia spinosa*) and blue cardinal flower (*Lobelia siphilitica*). Additional species were seen close to the property, including wild comfrey (*Cynoglossum virginianum*) a few feet beyond the east

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[*] The following 14 native species have two varieties in the study area: *Acer rubrum*, *Bidens aristosa*, *Celtis occidentalis*, *Diospyros virginiana*, *Echinochloa muricata*, *Elymus virginicus*, *Lactuca canadensis*, *Lactuca floridana*, *Lindera benzoin*, *Ostrya virginiana*, *Sambucus canadensis*, *Sassafras albidum*, *Smilax bona-nox*, and *Toxicodendron radicans*.

[†] *Prunella vulgaris* is counted as a native species, but it has a non-native variety as well as a native variety. Both varieties occur on the site.

[‡] *Anagallis minima*, *Agrostis elliottiana*, *Carya texana*, *Crotalaria sagittalis*, *Dichanthelium dichotomum*, *Hedeoma pulegioides*, *Isoetes melanopoda*, *Juncus marginatus*, *Lechea tenuifolia*, *Oenothera linifolia*, *Polygonum tenue*, and *Sporobolus vaginiflorus*.

[¶] *Anthemis cotula*, *Chenopodium album*, *Digitaria sanguinalis*, and *Polygonum arenastrum*.

[§] *Callitriche terrestris*, *Carex abdita*, *Carex amphibola*, *Carex swanii*, *Dichanthelium yadkinense*, *Galium triflorum*, *Lilium superbum*, *Sanicula odorata*, *Smilax pulverulenta*, *Sphenopholis obtusata*, and *Veronicastrum virginicum*.

fenceline, and a colony of the little goosefoot *Chenopodium standleyanum* just west of the property line.

The Audubon Society's ownership is so far up in the headwaters of Lusk Creek that the bedrock is all sandstone. If the tract had any limestone outcrops, there could easily be 30 or more additional plant species.

Bill Hopkins' floristic inventory

In 1966–68 Bill Hopkins surveyed the vascular flora of Lusk Creek Canyon, immediately west and south of the Illinois Audubon tract. Hopkins' study area is centered on Indian Kitchen, and it embraces the steeply incised valley of Lusk Creek. The upstream limit of Hopkins' study area is about 1,600 feet downstream from the Illinois Audubon Society's property.

The study area delineated in Hopkins' monograph is about 1,100 acres (about 20 times larger than the Audubon Society's tract), and it has a greater diversity of natural environments. Those habitats are far more extensive, better developed, and mostly in better condition than on the Audubon property. Comparison of the flora of the two areas is illuminating – but hampered by the fact that Bill Hopkins did not limit his species list to plants that he found within his study area. [*]

Hopkins (1969) reported that he found 766 species, but his list actually includes only 711 species. The list of 711 species includes a number of questionable identifications and other issues that might be resolved by examining Hopkins' herbarium specimens and by conducting fieldwork in his study area. Such an effort is beyond the scope of my study, but I tentatively resolved some of the matters by examining published literature and information on the Internet. As a result, I adjusted Bill's tally of species by removing 13 species and adding three – as detailed in the footnote below. [†]

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[*] The degree to which Bill Hopkins extended his floristic inventory cannot be ascertained, but his collection of *Dryopteris* x *neo-wherryi* was made farther downstream along Lusk Creek, a straight-line distance of 3.2 miles beyond his formally delimited study area.

[†] I removed six species from Hopkins' list because they are now considered to be the same as other species that he listed. (1) Based on the discussion in Mohlenbrock (1999:69, 71), it appears that Hopkins' report of *Carex annectens* is assignable to *Carex brachyglossa*. (2) *Crataegus mackenzii* is combined with *Crataegus rugosa* and synonymized under *Crataegus pruinosa*. (3) *Panicum barbulatum* is a variety of *Panicum dichotomum* (or *Dichanthelium dichotomum*). (4) *Prunus lanata* is a variety of *Prunus americana*. (5) *Pycnanthemun flexuosum* is the same as *Pycnanthemum tenuifolium*. (6) *Viola papilionacea* is combined with *Viola sororia* (Mohlenbrock 1978:221–222).

I deleted five species because Robert Mohlenbrock's more recent treatments of the Illinois flora appear to have rejected Hopkins' identifications of these species: *Festuca rubra* (Mohlenbrock 2002*a*:95, 333), *Lactuca muralis* (Mohlenbrock 2002*b*:127–128), *Panicum consanguineum* (Mohlenbrock 2001, 2002*b*), *Rubus ostryifolius* (Mohlenbrock 2002*b*:299), and *Salix petiolaris* (Mohlenbrock 1980:55). I did not

With these adjustments, Bill Hopkins' floristic list for Lusk Creek Canyon and environs stands at 701 species, of which 632 species (*i.e.* 90%) are native. * This compares to 574 species identified on the Illinois Audubon Society's property, of which 509 species (or 89%) are native. The two studies found 444 species in common, growing in both areas. The list for the 57-acre Audubon tract includes 130 species that were not reported from the 1,100-acre Lusk Creek Canyon area.

Botanical hotspots

Four small parts of the Audubon Society property have especially interesting concentrations of plants:

The 4.8-acre old field in the northwest corner of the property has the highest plant diversity, roughly 260 kinds, a mix of forest and open-land species. They include wildflowers that do not occur anywhere else on the property such as butterfly weed (*Asclepias tuberosa*), willow aster (*Aster praealtus*), purple sneezeweed (*Helenium flexuosum*), and rose gentian (*Sabatia angularis*). Other representatives of barrens vegetation are present, including perennial foxtail (*Setaria geniculata*), rough white lettuce (*Prenanthes aspera*), hairy wild lettuce (*Lactuca hirsuta*), and seven species of tick trefoil (*Desmodium*).

The small sandstone glade and immediately adjacent forest near the cabin site harbor 23 species that were found nowhere else. These include plants characteristic of exposed rock outcrops such as woolly croton (*Croton capitatus*), black quillwort (*Isoetes melanopoda*), prickly pear cactus (*Opuntia humifusa*), and American aloe (*Manfreda virginica*) – as well as tall melic grass (*Melica nitens*) and the State Threatened fuzzy-fruited sharp-scaled sedge (*Carex oxylepis* var. *pubescens*).

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count two hybrids: *Dryopteris* x *neo-wherryi* and *Lespedeza simulata* (which is now classified as *Lespedeza* x *simulata*).

Bill Hopkins did not include *Betula nigra* and *Quercus stellata* in his species list. However, he named these two species in his description of habitats in Lusk Creek Canyon, so I added them to the list of species in Hopkins' study area. I also elevated one variety on Hopkins' list to the status of full species: *Solidago nemoralis* var. *decemflora* is now considered a species, *Solidago decemflora*.

* Although Bill Hopkins annotated 643 of his 699 species as native, I adjusted the numbers to 632 natives out of 701 total species. As part of the adjustment, I added two native species, *Betula nigra* and *Quercus stellata*, as discussed in the previous footnote. I also added *Hackelia virginiana* (which Hopkins described as Eurasian) to the list of native species. I removed 14 species from Hopkins' list of natives because they are actually introductions or adventives from the Old World or from farther south or west in the Americas. These 14 species are *Commelina communis*, *Digitaria ischaemum*, *Erigeron tenuis*, *Holosteum umbellatum*, *Ipomoea purpurea*, *Lespedeza cuneata*, *Ligustrum vulgare*, *Lysimachia vulgaris*, *Lythrum salicaria*, *Panicum miliaceum*, *Plantago rhodosperma*, *Poa pratensis*, *Robinia hispida*, and *Setaria glauca*.

Shaded talus at the base of the bluff on the south end of the tract has 11 species that occur nowhere else on the site. These include five ferns – silvery spleenwort (*Deparia acrostichoides*), walking fern (*Asplenium rhizophyllum*), Goldie's fern (*Dryopteris goldiana*), common polypody (*Polypodium virginianum*), and glade fern (*Diplazium pycnocarpon*) – as well as a colony of hepatica (*Hepatica acutiloba*), a big display of the waterleaf *Hydrophyllum canadense*, and the State Threatened Appalachian bugbane (*Cimicifuga rubifolia*).

The gravel bar and adjacent streambanks in the southernmost bend of Lusk Creek provide habitat for 24 kinds of plants that are restricted or nearly restricted to that one small area. They include a number of weedy species – *e.g.* velvet-leaf (*Abutilon theophrastii*) and goose grass (*Eleusine indica*) – and diminutive wetland herbs such as sweet-scented flatsedge (*Kyllinga pumila*), autumn fimbry (*Fimbristylis autumnalis*), and slender false pimpernel (*Lindernia anagallidea*).

Rare species

Searches by Mark Basinger, Jody Shimp, John Schwegman, and me revealed nine species that are listed as Threatened or Endangered by the Illinois Endangered Species Protection Board (ESPB) or that are designated as Regional Forester Sensitive Species by the U.S. Forest Service (USFS):

Table 2. Officially designated rare species.	**ESPB**	**USFS**
Sharp-scaled sedge (*Carex oxylepis*)	Threatened	X
Willdenow's sedge (*Carex willdenowii*)	Threatened	X
Appalachian bugbane (*Cimicifuga rubifolia*)	Threatened	X
Yadkin panic grass (*Dichanthelium yadkinense*)	Endangered	X
French's shooting star (*Dodecatheon frenchii*)	Threatened	X
Climbing milkweed (*Matelea obliqua*)	Threatened	
Goldie's fern (*Dryopteris goldiana*)		X
Superb lily (*Lilium superbum*)		X
Ginseng (*Panax quinquefolius*)		X

Invasive species

The invasive potential of a species is indicated by its level of *vegetation management concern*, defined and discussed on pages 5 and 6. Six species are of particular concern:

Table 3. Invasive species.	**Concern**
Sericea lespedeza (*Lespedeza cuneata*)	Low
Johnson grass (*Sorghum halepense*)	Moderate
Autumn olive (*Elaeagnus umbellata*)	High
Japanese honeysuckle (*Lonicera japonica*)	High
Chinese yam (*Dioscorea oppositifolia*)	High
Stilt grass (*Microstegium vimineum*)	High

Sericea lespedeza is of some concern because it might invade and dominate parts of the upland fields if the soil is laid bare.

Johnson grass can be a severe invasive, but I judge it to be of only moderate concern on this property because it has already been nearly eliminated by recent control efforts, and the remnant is not competing well against native vegetation.

Among the four species of high concern, autumn olive is a particularly good target for control: eliminate it before it forms a canopy in the old fields. Japanese honeysuckle insinuated the area long ago, and it is not likely to cause more problems than it has already done – except possibly to overwhelm rare species at the sandstone glade. Chinese yam and stilt grass are recent invaders. It may be possible to suppress large growths of the yam, but it probably will prove impossible to eradicate. Stilt grass control looks hopeless without a biological agent.

The study area has several species that can be serious invasives in grassland habitats (*e.g.* white sweet clover, tall fescue, and other cool-season grasses). However, they appear to pose no significant threat on this land.

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Mark Basinger's 2008 floristic inventory of the property made my work easier and ensured a better product. Mark's legendary reputation as a field botanist is well deserved.

Jody Shimp of the Illinois Department of Natural Resources botanized with me on the property, taught me sedges, and helped identify plant specimens that we collected. Jody also provided a base of operations and logistical support.

John Schwegman helped carry out fieldwork, found species that I would have overlooked, identified plants that stumped me, and provided a place to stay. John began botanizing along Lusk Creek in the 1960s, and his familiarity with the flora is unmatched.

Barbara White assisted me in the field and herbarium.

Rick Phillippe made the herbarium of the Illinois Natural History Survey available for my use. John Taft of the Natural History Survey checked some of my plant identifications.

Barbara White, Mark Basinger, and Jody Shimp reviewed a draft of this report.

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Appendix 1. Plants listed by family.

Acanthus family (Acanthaceae)	
Justicia americana	Water willow
Ruellia humilis	Wild petunia

Agave family (Agavaceae)	
Manfreda virginica	American aloe
Yucca smalliana	Yucca

Amaryllis family (Amaryllidaceae)	
Hypoxis hirsuta	Yellow star grass

Arum family (Araceae)	
Arisaema dracontium	Green dragon
Arisaema triphyllum ssp. triphyllum	Jack-in-the-pulpit

Aster or composite family (Asteraceae)	
Achillea millefolium var. millefolium	Yarrow
Ageratina altissima	White snakeroot
Ambrosia artemisiifolia	Common ragweed
Ambrosia bidentata	Lance-leaved ragweed
Ambrosia trifida var. trifida	Giant ragweed
Antennaria plantaginifolia	Pusseytoes
Anthemis cotula	Dog fennel
Arnoglossum atriplicifolium	Pale Indian plantain
Aster lanceolatus var. simplex	Panicled aster
Aster lateriflorus	Side-flowered aster
Aster patens	Spreading aster
Aster pilosus	Frost aster
Aster praealtus var. praealtus	Willow aster
Aster sagittifolius	Arrow-leaved aster
Aster shortii	Short's aster
Aster turbinellus	Top-shaped aster
Bidens aristosa var. aristosa	Swamp marigold
Bidens aristosa var. fritcheyi	Swamp marigold
Bidens bipinnata	Spanish needles
Bidens frondosa	Common beggar's ticks
Bidens polylepis	Bur marigold
Cirsium altissimum	Tall thistle
Cirsium discolor	Field thistle
Conoclinium coelestinum	Mist flower
Conyza canadensis	Horseweed
Coreopsis pubescens	Tickseed
Coreopsis tripteris var. tripteris	Tall coreopsis
Eclipta prostrata	Yerba de tajo
Elephantopus carolinianus	Elephant's foot
Erechtites hieracifolia var. hieracifolia	White fireweed
Erigeron annuus	Annual fleabane
Erigeron philadelphicus	Marsh fleabane
Erigeron strigosus	Daisy fleabane
Eupatoriadelphus fistulosus	Hollow Joe Pye weed
Eupatorium perfoliatum	Common boneset
Eupatorium serotinum	Late boneset
Euthamia graminifolia var. nuttallii	Grass-leaved goldenrod
Gamochaeta purpurea	Early cudweed
Helenium flexuosum	Purple sneezeweed
Helianthus divaricatus	Woodland sunflower
Helianthus hirsutus	Hispid sunflower
Helianthus microcephalus	Small-headed sunflower
Helianthus tuberosus var. tuberosus	Jerusalem artichoke
Heliopsis helianthoides var. helianthoides	False sunflower
Hieracium gronovii	Hairy hawkweed
Hieracium longipilum	Long-bearded hawkweed
Iva annua	Marsh elder
Krigia biflora	Dwarf dandelion
Lactuca canadensis var. canadensis	Yellow wild lettuce
Lactuca canadensis var. latifolia	Yellow wild lettuce
Lactuca floridana var. floridana	Blue wild lettuce
Lactuca floridana var. villosa	Blue wild lettuce
Lactuca hirsuta var. sanguinea	Hairy lettuce
Leucanthemum vulgare	Ox-eye daisy
Prenanthes altissima	Tall white lettuce
Prenanthes aspera	Rough white lettuce
Prenanthes crepidinea	Great white lettuce
Pseudognaphalium obtusifolium	Sweet everlasting
Rudbeckia hirta var. hirta	Black-eyed Susan
Rudbeckia laciniata	Goldenglow
Rudbeckia triloba	Brown-eyed Susan
Senecio aureus var. gracilis	Golden ragwort
Senecio glabellus	Butterweed
Silphium perfoliatum	Cup plant
Solidago altissima	Tall goldenrod
Solidago buckleyi	Buckley's goldenrod
Solidago caesia	Blue goldenrod
Solidago flexicaulis	Broadleaf goldenrod
Solidago gigantea var. leiophylla	Smooth late goldenrod
Solidago juncea	Early goldenrod
Solidago missouriensis var. fasciculata	Missouri goldenrod
Solidago nemoralis	Gray goldenrod
Solidago rugosa var. rugosa	Rough-leaved goldenrod
Solidago ulmifolia	Elm-leaved goldenrod
Verbesina alternifolia	Yellow ironweed
Verbesina helianthoides	Yellow crownbeard
Verbesina virginica	Frostweed
Vernonia gigantea var. gigantea	Smooth tall ironweed
Vernonia missurica	Missouri ironweed
Xanthium strumarium var. glabratum	Common cocklebur

Barberry family (Berberidaceae)	
Caulophyllum thalictroides	Blue cohosh
Podophyllum peltatum	Mayapple

Basswood family (Tiliaceae)	
Tilia americana	American basswood

Beech family (Fagaceae)	
Fagus grandifolia var. caroliniana	American beech
Quercus alba	White oak
Quercus coccinea	Scarlet oak
Quercus imbricaria	Shingle oak
Quercus marilandica	Blackjack oak
Quercus muhlenbergii	Chinquapin oak
Quercus rubra	Red oak
Quercus stellata	Post oak
Quercus velutina	Black oak

Bellflower family (Campanulaceae)	
Campanulastrum americanum var. americanum	American bellflower
Lobelia cardinalis	Cardinal flower
Lobelia inflata	Indian tobacco

Lobelia puberula var. simulans	Downy blue lobelia
Triodanis perfoliata	Venus' looking glass

Bignonia family (Bignoniaceae)

Campsis radicans	Trumpet creeper

Birch family (Betulaceae)

Alnus serrulata	Smooth alder
Betula nigra	River birch

Birthwort family (Aristolochiaceae)

Aristolochia serpentaria	Virginia snakeroot
Asarum canadense var. reflexum	Wild ginger

Bittersweet family (Celastraceae)

Euonymus atropurpureus	Wahoo

Bladdernut family (Staphyleaceae)

Staphylea trifolia	Bladdernut

Borage family (Boraginaceae)

Lithospermum latifolium	American gromwell
Mertensia virginica	Virginia bluebells
Myosotis verna	Spring forget-me-not

Buckthorn family (Rhamnaceae)

Frangula caroliniana	Carolina buckthorn

Buttercup or crowfoot family (Ranunculaceae)

Actaea pachypoda	Doll's eyes
Anemone virginiana	Tall anemone
Anemonella thalictroides	Rue anemone
Aquilegia canadensis	Wild columbine
Cimicifuga rubifolia	Appalachian bugbane
Clematis virginiana	Virgin's bower
Delphinium tricorne	Dwarf larkspur
Hepatica acutiloba	Sharp-lobed hepatica
Hydrastis canadensis	Goldenseal
Ranunculus abortivus var. abortivus	Small-flowered buttercup
Ranunculus recurvatus	Hooked buttercup
Ranunculus sardous	Sardinia buttercup
Thalictrum dasycarpum	Meadow rue
Thalictrum revolutum	Waxy meadow rue

Cactus family (Cactaceae)

Opuntia humifusa	Common prickly pear

Cannabis family (Cannabinaceae)

Humulus lupulus var. lupuloides	Hops

Carpetweed family (Molluginaceae)

Mollugo verticillata	Carpetweed

Carrot family (Apiaceae)

Chaerophyllum procumbens var. procumbens	Wild chervil
Cicuta maculata	Water hemlock
Cryptotaenia canadensis	Honewort
Daucus carota	Wild carrot
Osmorhiza longistylis var. longistylis	Sweet cicely
Sanicula canadensis var. canadensis	Canada black snakeroot
Sanicula odorata	Clustered black snakeroot
Zizia aurea	Golden Alexanders

Cashew family (Anacardiaceae)

Rhus glabra	Smooth sumac
Rhus copallina	Winged sumac
Toxicodendron radicans var. negundo	Poison ivy
Toxicodendron radicans var. radicans	Poison ivy

Custard apple family (Annonaceae)

Asimina triloba	Pawpaw

Cypress family (Cupressaceae)

Juniperus virginiana	Eastern red cedar

Day flower family (Commelinaceae)

Commelina communis	Common day flower
Tradescantia subaspera var. subaspera	Broad-leaved spiderwort
Tradescantia virginiana	Virginia spiderwort

Dodder family (Cuscutaceae)

Cuscuta cuspidata	Cusp dodder
Cuscuta gronovii var. gronovii	Common dodder

Dogbane family (Apocynaceae)

Amsonia tabernaemontana var. tabernaemontana	Blue star
Apocynum cannabinum	Indian hemp

Dogwood family (Cornaceae)

Cornus florida	Flowering dogwood
Cornus obliqua	Pale dogwood

Ebony family (Ebenaceae)

Diospyros virginiana var. pubescens	Persimmon
Diospyros virginiana var. virginiana	Persimmon

Elm family (Ulmaceae)

Celtis laevigata var. laevigata	Sugarberry
Celtis occidentalis var. canina	Hackberry
Celtis occidentalis var. occidentalis	Hackberry
Celtis tenuifolia var. tenuifolia	Dwarf hackberry
Ulmus alata	Winged elm
Ulmus americana	American elm
Ulmus rubra	Slippery elm

Evening primrose family (Onograceae)

Circaea lutetiana ssp. canadensis	Enchanter's nightshade
Ludwigia alternifolia var. alternifolia	Seedbox
Ludwigia palustris var. americana	Marsh purslane
Ludwigia peploides ssp. glabrescens	Creeping primrose willow
Oenothera biennis	Common evening primrose
Oenothera linifolia	Thread-leaved sundrops

Ferns and fern allies (Aspleniaceae, Blechnaceae, Dryopteridaceae, Equisetaceae, Isoetaceae, Onocleaceae, Ophioglossaceae, Polypodiaceae, Pteridaceae, and Thelypteridaceae)

Adiantum pedatum	Maidenhair fern
Asplenium platyneuron var. platyneuron	Ebony spleenwort
Asplenium rhizophyllum	Walking fern
Athyrium filix-femina	Lady fern

Botrychium obliquum var. obliquum	Grape fern
Botrychium virginianum	Rattlesnake fern
Cheilanthes lanosa	Hairy lip fern
Cystopteris protrusa	Fragile fern
Deparia acrostichoides	Silvery spleenwort
Diplazium pycnocarpon	Glade fern
Dryopteris goldiana	Goldie's fern
Dryopteris marginalis	Marginal shield fern
Equisetum arvense	Common horsetail
Isoetes melanopoda	Black quillwort
Onoclea sensibilis	Sensitive fern
Phegopteris hexagonoptera	Broad beech fern
Polypodium virginianum	Common polypody
Polystichum acrostichoides	Christmas fern
Woodsia obtusa	Common woodsia
Woodwardia areolata	Netted chain fern

Figwort family (Scrophulariaceae)

Agalinis fasciculata	Tufted false foxglove
Agalinis tenuifolia	Narrow-leaved false foxglove
Aureolaria flava var. micrantha	Yellow false foxglove
Gratiola neglecta	Clammy hedge hyssop
Lindernia anagallidea	Slender false pimpernel
Mimulus alatus	Winged monkey flower
Pedicularis canadensis var. canadensis	Lousewort
Penstemon pallidus	Pale beardtongue
Scrophularia marilandica	Late figwort
Verbascum thapsus	Great mullein
Veronicastrum virginicum	Culver's root

Flax family (Linaceae)

Linum medium var. texanum	Small yellow flax

Fumitory family (Fumariaceae)

Corydalis flavula	Pale corydalis
Dicentra cucullaria	Dutchman's breeches

Gentian family (Gentianaceae)

Frasera caroliniensis	American columbo
Sabatia angularis	Rose gentian

Geranium family (Geraniaceae)

Geranium carolinianum	Carolina cranesbill
Geranium maculatum	Wild geranium

Goosefoot family (Chenopodiaceae)

Chenopodium album	Lamb's quarters
Chenopodium ambrosioides	Mexican tea

Gourd family (Cucurbitaceae)

Sicyos angulatus	Bur cucumber

Grape family (Vitaceae)

Parthenocissus quinquefolia	Virginia creeper
Vitis aestivalis var. aestivalis	Summer grape
Vitis cinerea	Winter grape
Vitis riparia	Riverbank grape
Vitis vulpina	Fox grape

Grass family (Poaceae)

Agrostis elliottiana	Awned bent grass
Agrostis gigantea	Redtop
Agrostis hyemalis	Tickle grass
Agrostis perennans	Upland bent grass
Andropogon gerardii	Big bluestem
Andropogon gyrans	Elliott's broomsedge
Andropogon virginicus	Broomsedge
Aristida dichotoma	Three-awn
Arundinaria gigantea	Giant cane
Bouteloua curtipendula	Side-oats grama
Brachyelytrum erectum	False brome
Bromus commutatus	Hairy chess
Bromus inermis	Smooth brome
Bromus pubescens	Canada brome
Chasmanthium latifolium	Inland oats
Cinna arundinacea	Wood reed grass
Dactylis glomerata	Orchard grass
Danthonia spicata	Curly grass
Diarrhena obovata	Beak grass
Dichanthelium acuminatum var. fasciculatum	Old-field panic grass
Dichanthelium boscii var. boscii	Large-fruited panic grass
Dichanthelium clandestinum	Deer-tongue grass
Dichanthelium commutatum var. commutatum	Broad-leaved panic grass
Dichanthelium depauperatum	Starved panic grass
Dichanthelium dichotomum	Forked panic grass
Dichanthelium laxiflorum	Loose-flowered panic grass
Dichanthelium malacophyllum	Soft-leaved panic grass
Dichanthelium microcarpon	Small-fruited panic grass
Dichanthelium polyanthes	Round-fruited panic grass
Dichanthelium scoparium	Broom panic grass
Dichanthelium yadkinense	Yadkin panic grass
Digitaria ischaemum	Smooth crabgrass
Digitaria sanguinalis	Hairy crabgrass
Echinochloa muricata var. muricata	Barnyard grass
Echinochloa muricata var. wiegandii	Wild millet
Eleusine indica	Goose grass
Elymus hystrix var. hystrix	Bottlebrush grass
Elymus riparius	Riverbank wild rye
Elymus villosus	Silky wild rye
Elymus virginicus var. glabriflorus	Virginia wild rye
Elymus virginicus var. virginicus	Virginia wild rye
Eragrostis pectinacea	Love grass
Eragrostis spectabilis	Tumble grass
Festuca arundinacea	Tall fescue
Festuca subverticillata	Nodding fescue
Glyceria striata var. striata	Fowl manna grass
Koeleria macrantha	June grass
Leersia lenticularis	Catchfly grass
Leersia virginica	White grass
Melica nitens	Tall melic grass
Microstegium vimineum	Stilt grass
Muhlenbergia frondosa	Satin grass
Muhlenbergia schreberi	Nimble Will
Muhlenbergia racemosa	Marsh muhly
Muhlenbergia sobolifera	Woodland satin grass
Panicum anceps	Beaked panic grass
Panicum dichotomiflorum var. dichotomiflorum	Fall panicum
Panicum flexile	Slender panic grass

Panicum virgatum	Switch grass
Paspalum laeve	Bead grass
Paspalum setaceum var. setaceum	Slender bead grass
Phalaris arundinacea	Reed canary grass
Phleum pratense	Timothy
Poa compressa	Canada bluegrass
Poa pratensis	Kentucky bluegrass
Poa sylvestris	Woodland bluegrass
Schizachyrium scoparium	Little bluestem
Setaria faberi	Giant foxtail
Setaria geniculata	Perennial foxtail
Setaria glauca	Yellow foxtail
Sorghum halepense	Johnson grass
Sphenopholis obtusata	Wedge grass
Sporobolus vaginiflorus	Poverty grass
Tridens flavus	Purple-top
Vulpia octoflora var. octoflora	Six-weeks fescue

Greenbrier family (Smilacaceae)

Smilax bona-nox var. bona-nox	Saw greenbrier
Smilax bona-nox var. hederaefolia	Saw greenbrier
Smilax glauca var. leurophylla	Glaucous greenbrier
Smilax pulverulenta	Powdery carrion flower
Smilax rotundifolia	Round-leaved greenbrier
Smilax tamnoides var. hispida	Bristly greenbrier

Hazel family (Corylaceae)

Carpinus caroliniana var. caroliniana	Musclewood
Corylus americana	American hazel
Ostrya virginiana var. lasia	Hop hornbeam
Ostrya virginiana var. virginiana	Hop hornbeam

Heath family (Ericaceae)

Vaccinium arboreum var. arboreum	Farkleberry

Holly family (Aquifoliaceae)

Ilex decidua	Deciduous holly

Honeysuckle family (Caprifoliaceae)

Lonicera japonica var. japonica	Japanese honeysuckle
Sambucus canadensis var. canadensis	Elderberry
Sambucus canadensis var. submollis	Elderberry
Symphoricarpos orbiculatus	Coralberry
Viburnum prunifolium	Black haw

Horse chestnut family (Hippocastanaceae)

Aesculus glabra var. glabra	Ohio buckeye

Hydrangea family (Hydrangeaceae)

Hydrangea arborescens	Wild hydrangea

Iris family (Iridaceae)

Sisyrinchium albidum	Common blue-eyed grass

Jewelweed family (Balsaminaceae)

Impatiens capensis	Orange touch-me-not
Impatiens pallida	Pale touch-me-not

Laurel family (Lauraceae)

Lindera benzoin var. benzoin	Spicebush
Lindera benzoin var. pubescens	Spicebush
Sassafras albidum var. albidum	Sassafras
Sassafras albidum var. molle	Red sassafras

Legumes (Caesalpiniaceae and Fabaceae)

Amphicarpaea bracteata var. bracteata	Hog peanut
Apios americana	Groundnut
Cercis canadensis	Redbud
Chamaecrista fasciculata var. fasciculata	Partridge pea
Chamaecrista nictitans	Small partridge pea
Crotalaria sagittalis	Rattlebox
Desmodium canadense	Showy tick trefoil
Desmodium canescens	Hoary tick trefoil
Desmodium ciliare	Hairy small-leaved tick trefoil
Desmodium glabellum	Smooth tick trefoil
Desmodium laevigatum	Glaucous tick trefoil
Desmodium marilandicum	Smooth small-leaved tick trefoil
Desmodium nudiflorum	Bare-stemmed tick trefoil
Desmodium paniculatum	Panicled tick trefoil
Desmodium rotundifolium	Round-leaved tick trefoil
Gleditsia triacanthos	Honey locust
Kummerowia striata	Japanese bush clover
Lespedeza cuneata	Sericea lespedeza
Lespedeza intermedia	Wand-like bush clover
Lespedeza procumbens var. elliptica	Narrow-leaved trailing bush clover
Lespedeza repens	Creeping bush clover
Medicago lupulina	Black medic
Melilotus albus	White sweet clover
Phaseolus polystachios	Wild kidney bean
Robinia pseudoacacia	Black locust
Senna marilandica	Wild senna
Strophostyles umbellata	Wild bean
Stylosanthes biflora	Pencil flower
Tephrosia virginiana var. holosericea	Goat's rue
Trifolium campestre	Low hop clover
Trifolium hybridum	Alsike clover
Trifolium pratense var. pratense	Red clover
Trifolium repens	White clover

Lily family (Liliaceae)

Allium canadense var. canadense	Wild onion
Allium vineale	Field garlic
Erythronium albidum	White dog-toothed violet
Lilium superbum	Superb lily
Nothoscordum bivalve	False garlic
Polygonatum biflorum	Small Solomon's seal
Polygonatum commutatum	Solomon's seal
Smilacina racemosa	False Solomon's seal
Trillium flexipes	White trillium
Trillium recurvatum	Purple trillium
Uvularia grandiflora	Large-flowered bellwort

Logania family (Loganiaceae)

Spigelia marilandica	Indian pink

Loosestrife family (Lythraceae)

Rotala ramosior	Tooth-cup

Lopseed family (Phrymaceae)

Phryma leptostachya	Lopseed

Madder family (Rubiaceae)

Cephalanthus occidentalis var. occidentalis	Buttonbush
Diodia teres var. teres	Rough buttonweed
Galium aparine var. aparine	Cleavers
Galium circaezans var. hypomalacum	Hairy wild licorice
Galium concinnum	Shining bedstraw
Galium obtusum	Wild madder
Galium pilosum	Hairy bedstraw
Galium triflorum	Sweet-scented bedstraw
Houstonia lanceolata	Lance-leaved bluets
Houstonia pusilla	Small bluets

Magnolia family (Magnoliaceae)

Liriodendron tulipifera	Tuliptree

Mallow family (Malvaceae)

Abutilon theophrastii	Velvet-leaf
Sida spinosa	Prickly sida

Maple family (Aceraceae)

Acer negundo var. negundo	Box elder
Acer rubrum var. rubrum	Red maple
Acer rubrum var. trilobum	Three-lobed red maple
Acer saccharum var. saccharum	Sugar maple

Milkweed family (Asclepiadaceae)

Ampelamus albidus	Bluevine
Asclepias exaltata	Poke milkweed
Asclepias quadrifolia	Whorled milkweed
Asclepias syriaca var. syriaca	Common milkweed
Asclepias tuberosa spp. interior	Butterfly weed
Matelea obliqua	Climbing milkweed

Milkwort family (Polygalaceae)

Polygala sanguinea	Field milkwort

Mint family (Lamiaceae)

Agastache nepetoides	Yellow giant hyssop
Blephilia ciliata	Downy wood mint
Blephilia hirsuta	Hairy wood mint
Cunila origanoides	Dittany
Hedeoma pulegioides	American pennyroyal
Lamium purpureum	Purple dead nettle
Lycopus virginicus	Virginia bugle weed
Monarda bradburiana	Bradbury's bee balm
Perilla frutescens var. frutescens	Beefsteak plant
Prunella vulgaris var. elongata	Self-heal
Prunella vulgaris var. vulgaris	Self-heal
Pycnanthemum pycnanthemoides	Mountain mint
Pycnanthemum tenuifolium	Slender mountain mint
Salvia lyrata	Lyre-leaved sage
Scutellaria elliptica	Hairy skullcap
Scutellaria incana	Downy skullcap
Stachys tenuifolia	Smooth hedge nettle
Teucrium canadense	American germander
Trichostema dichotomum	Blue curls

Moonseed family (Menispermaceae)

Menispermum canadense	Moonseed

Morning glory family (Convolvulaceae)

Ipomoea hederacea	Ivy-leaved morning glory
Ipomoea lacunosa	Small white morning glory
Ipomoea pandurata	Wild sweet potato
Ipomoea purpurea	Common morning glory

Mulberry family (Moraceae)

Maclura pomifera	Hedge-apple
Morus alba	White mulberry
Morus rubra	Red mulberry

Mustard family (Brassicaceae)

Arabis canadensis	Sicklepod
Arabis laevigata	Smooth rock cress
Barbarea vulgaris var. arcuata	Yellow rocket
Dentaria laciniata	Toothwort
Draba reptans	Common whitlow grass
Lepidium virginicum	Common pepper grass
Rorippa palustris	Marsh yellow cress
Thlaspi perfoliatum	Perfoliate penny cress

Nettle family (Urticaceae)

Boehmeria cylindrica var. cylindrica	False nettle
Laportea canadensis	Wood nettle
Parietaria pensylvanica	Pellitory
Pilea pumila	Clearweed

Nightshade family (Solanaceae)

Datura stramonium	Jimson weed
Lycopersicon esculentum	Tomato
Physalis pruinosa	Ground cherry
Solanum carolinense	Horse nettle
Solanum ptycanthum	Black nightshade

Oleaster family (Elaeagnaceae)

Elaeagnus umbellata	Autumn olive

Olive family (Oleaceae)

Fraxinus americana var. americana	White ash
Fraxinus pennsylvanica	Red ash

Orchid family (Orchidaceae)

Aplectrum hyemale	Putty-root orchid
Platanthera lacera	Green fringed orchid

Phlox family (Polemoniaceae)

Phlox divaricata ssp. laphamii	Blue phlox
Phlox glaberrima ssp. interior	Smooth phlox
Phlox paniculata	Garden phlox
Polemonium reptans	Jacob's ladder

Pine family (Pinaceae)

Pinus echinata	Shortleaf pine

Pink family (Caryophyllaceae)

Cerastium fontanum	Common mouse-eared chickweed
Cerastium arvense var. villosum	Field mouse-eared chickweed
Dianthus armeria	Deptford pink

Silene stellata	Starry campion
Stellaria media	Common chickweed

Plane tree family (Platanaceae)

Platanus occidentalis	Sycamore

Plantain family (Plantaginaceae)

Plantago lanceolata	Buckhorn
Plantago rugelii	Rugel's plantain
Plantago virginica	Virginia plantain

Pokeweed family (Phytolaccaceae)

Phytolacca americana	Pokeweed

Poppy family (Papaveraceae)

Sanguinaria canadensis	Bloodroot

Primrose family (Primulaceae)

Anagallis minima	Chaffweed
Dodecatheon frenchii	French's shooting star
Dodecatheon meadia	Shooting star
Lysimachia lanceolata	Lance-leaved loosestrife

Purslane family (Portulacaceae)

Claytonia virginica	Spring beauty

Rock rose family (Cistaceae)

Lechea tenuifolia	Narrow-leaved pinweed

Rose family (Rosaceae)

Agrimonia parviflora	Swamp agrimony
Agrimonia rostellata	Woodland agrimony
Amelanchier arborea	Shadbush
Crataegus pruinosa	Frosted hawthorn
Geum canadense var. canadense	White avens
Geum vernum	Spring avens
Porteranthus stipulatus	Indian physic
Potentilla simplex var. simplex	Common cinquefoil
Prunus americana	Wild plum
Prunus serotina	Wild black cherry
Rosa carolina	Pasture rose
Rosa multiflora	Multiflora rose
Rosa setigera var. tomentosa	Prairie rose
Rubus allegheniensis	Common blackberry
Rubus enslenii	Arching dewberry
Rubus flagellaris	Common dewberry
Rubus occidentalis	Black raspberry
Rubus pensilvanicus	Blackberry

Rush family (Juncaceae)

Juncus acuminatus	Pointed rush
Juncus biflorus var. biflorus	Two-flowered rush
Juncus brachycarpus	Short-fruited rush
Juncus diffusissimus	Long-fruited rush
Juncus effusus var. solutus	Soft rush
Juncus interior	Inland rush
Juncus marginatus	Grass-leaved rush
Juncus secundus	One-sided rush
Juncus tenuis	Path rush
Luzula multiflora	Common wood rush

Saxifrage family (Saxifragaceae)

Heuchera americana var. hirsuticaulis	Common alumroot
Heuchera parviflora var. rugelii	Small-flowered alumroot
Penthorum sedoides	Ditch stonecrop

Sedge family (Cyperaceae)

Carex abdita	Hidden oak sedge
Carex albicans	Blunt-scaled oak sedge
Carex albursina	Blunt-scaled wood sedge
Carex amphibola	Gray sedge
Carex blanda	Common wood sedge
Carex brachyglossa	Yellow fox sedge
Carex bushii	Long-scaled green sedge
Carex careyana	Carey's wood sedge
Carex cephalophora	Short-headed bracted sedge
Carex crinita var. brevicrinis	Fringed sedge
Carex digitalis	Narrow-leave wood sedge
Carex festucacea	Fescue oval sedge
Carex frankii	Bristly cattail sedge
Carex glaucodea	Blue sedge
Carex grisea	Wood gray sedge
Carex hirsutella	Hairy green sedge
Carex jamesii	James' sedge
Carex laxiculmis	Weak-stemmed wood sedge
Carex lurida	Bottlebrush sedge
Carex muhlenbergii	Sand bracted sedge
Carex oxylepis var. pubescens	Fuzzy-fruited sharp-scaled sedge
Carex retroflexa	Reflexed sedge
Carex rosea	Curly-styled wood sedge
Carex swanii	Downy green sedge
Carex umbellata	Early oak sedge
Carex vulpinoidea	Brown fox sedge
Carex willdenowii	Willdenow's sedge
Cyperus echinatus	Round-headed flatsedge
Cyperus erythrorhizos	Red-rooted flatsedge
Cyperus strigosus	Straw-colored flatsedge
Eleocharis ovata var. obtusa	Blunt spike rush
Eleocharis verrucosa	Slender spike rush
Fimbristylis autumnalis	Autumn fimbry
Kyllinga pumila	Sweet-scented flatsedge
Scirpus cyperinus	Wool grass
Scirpus georgianus	Dark-green bulrush

Smartweed family (Polygonaceae)

Antenoron virginianum	Virginia knotweed
Fallopia cristata	Crested bindweed
Fallopia scandens	Climbing buckwheat
Persicaria cespitosa	Creeping smartweed
Persicaria pensylvanica var. pensylvanica	Pink smartweed
Persicaria punctata	Spotted smartweed
Persicaria vulgaris	Lady's thumb
Polygonum arenastrum	Sidewalk knotweed
Polygonum tenue	Slender knotweed
Rumex acetosella	Sour dock
Rumex crispus	Curly dock
Rumex obtusifolius	Bitter dock
Tracaulon sagittatum	Tear thumb

Spikenard family (Araliaceae)

Panax quinquefolius	Ginseng

Spurge family (Euphorbiaceae)

Acalypha gracilens var. gracilens	Slender three-seeded Mercury
Acalypha rhomboidea	Rhombic three-seeded Mercury
Acalypha virginica	Virginia three-seeded Mercury
Chamaesyce humistrata	Spreading spurge
Chamaesyce maculata	Spotted creeping spurge
Croton capitatus	Woolly croton
Crotonopsis elliptica	Elliptical rushfoil
Euphorbia corollata var. corollata	Flowering spurge

St. John's wort family (Hypericaceae)

Ascyrum multicaule	St. Andrew's cross
Hypericum drummondii	Nits-and-lice
Hypericum gentianoides	Pineweed
Hypericum mutilum	Dwarf St. John's wort
Hypericum prolificum	Shrubby St. John's wort
Hypericum punctatum	Spotted St. John's wort

Stonecrop family (Crassulaceae)

Sedum pulchellum	Widow's cross
Sedum ternatum	Three-leaved stonecrop

Tupelo family (Nyssaceae)

Nyssa sylvatica var. caroliniana	Black gum

Valerian family (Valerianaceae)

Valeriana pauciflora	Pink valerian
Valerianella radiata var. radiata	Corn salad

Vervain family (Verbenaceae)

Verbena urticifolia var. urticifolia	White vervain

Violet family (Violaceae)

Hybanthus concolor	Green violet
Viola missouriensis	Missouri violet
Viola palmata var. dilatata	Cleft violet
Viola rafinesquii	Johnny-jump-up
Viola sagittata	Arrow-leaved violet
Viola sororia	Wooly blue violet
Viola striata	Cream violet

Walnut family (Juglandaceae)

Carya cordiformis	Bitternut hickory
Carya glabra var. glabra	Pignut hickory
Carya ovalis	Sweet pignut hickory
Carya ovata var. ovata	Shagbark hickory
Carya texana	Black hickory
Carya tomentosa	Mockernut hickory
Juglans nigra	Black walnut

Water lily family (Nyphaeaceae)

Nuphar advena	Yellow pond lily

Water plantain family (Alismataceae)

Alisma subcordatum	Small-flowered water plantain

Water starwort family (Callitrichaceae)

Callitriche terrestris	Terrestrial starwort

Waterleaf family (Hydrophyllaceae)

Hydrophyllum canadense	Broad-leaved waterleaf
Hydrophyllum virginianum	Virginia waterleaf
Phacelia purshii	Miami mist

Willow family (Salicaceae)

Populus deltoides	Eastern cottonwood
Salix nigra	Black willow

Witch hazel family (Hamamelidaceae)

Liquidambar styraciflua	Sweetgum

Wood sorrel family (Oxalidaceae)

Oxalis fontana	Yellow wood sorrel
Oxalis stricta	Yellow wood sorrel
Oxalis violacea	Violet wood sorrel

Yam family (Dioscoreaceae)

Dioscorea oppositifolia	Chinese yam
Dioscorea quaternata var. quaternata	Wild yam
Dioscorea villosa	Wild yam

Appendix 2. Plants listed by common name.

Agrimony, swamp	Agrimonia parviflora
Agrimony, woodland	Agrimonia rostellata
Alder, smooth	Alnus serrulata
Alexanders, golden	Zizia aurea
Aloe, American	Manfreda virginica
Alumroot, common	Heuchera americana var. hirsuticaulis
Alumroot, small-flowered	Heuchera parviflora var. rugelii
Anemone, tall	Anemone virginiana
Artichoke, Jerusalem	Helianthus tuberosus var. tuberosus
Ash, red	Fraxinus pennsylvanica
Ash, white	Fraxinus americana var. americana
Aster, arrow-leaved	Aster sagittifolius
Aster, frost	Aster pilosus
Aster, panicled	Aster lanceolatus var. simplex
Aster, Short's	Aster shortii
Aster, side-flowered	Aster lateriflorus
Aster, spreading	Aster patens
Aster, top-shaped	Aster turbinellus
Aster, willow	Aster praealtus var. praealtus
Avens, spring	Geum vernum
Avens, white	Geum canadense var. canadense
Basswood, American	Tilia americana
Bean, wild	Strophostyles umbellata
Bean, wild kidney	Phaseolus polystachios
Beardtongue, pale	Penstemon pallidus
Bedstraw, hairy	Galium pilosum
Bedstraw, shining	Galium concinnum
Bedstraw, sweet-scented	Galium triflorum
Bee balm, Bradbury's	Monarda bradburiana
Beech, American	Fagus grandifolia var. caroliniana
Beefsteak plant	Perilla frutescens var. frutescens
Beggar's ticks, common	Bidens frondosa
Bellflower, American	Campanulastrum americanum var. americanum
Bellwort, large-flowered	Uvularia grandiflora
Bindweed, crested	Fallopia cristata
Birch, river	Betula nigra
Black haw	Viburnum prunifolium
Blackberry	Rubus pensilvanicus
Blackberry, common	Rubus allegheniensis
Bladdernut	Staphylea trifolia
Bloodroot	Sanguinaria canadensis
Blue curls	Trichostema dichotomum
Blue star	Amsonia tabernaemontana var. tabernaemontana
Bluebells, Virginia	Mertensia virginica
Blue-eyed grass, common	Sisyrinchium albidum
Bluegrass, Canada	Poa compressa
Bluegrass, Kentucky	Poa pratensis
Bluegrass, woodland	Poa sylvestris
Bluestem, big	Andropogon gerardii
Bluestem, little	Schizachyrium scoparium
Bluets, lance-leaved	Houstonia lanceolata
Bluets, small	Houstonia pusilla
Bluevine	Ampelamus albidus
Boneset, common	Eupatorium perfoliatum
Boneset, late	Eupatorium serotinum
Box elder	Acer negundo var. negundo
Brome, Canada	Bromus pubescens
Brome, false	Brachyelytrum erectum
Brome, smooth	Bromus inermis
Broomsedge	Andropogon virginicus
Broomsedge, Elliott's	Andropogon gyrans
Buckeye, Ohio	Aesculus glabra var. glabra
Buckhorn	Plantago lanceolata
Buckthorn, Carolina	Frangula caroliniana
Buckwheat, climbing	Fallopia scandens
Bugbane, Appalachian	Cimicifuga rubifolia
Bugle weed, Virginia	Lycopus virginicus
Bulrush, dark-green	Scirpus georgianus
Bur marigold	Bidens polylepis
Bush clover, creeping	Lespedeza repens
Bush clover, Japanese	Kummerowia striata
Bush clover, narrow-leaved trailing	Lespedeza procumbens var. elliptica
Bush clover, wand-like	Lespedeza intermedia
Buttercup, hooked	Ranunculus recurvatus
Buttercup, Sardinia	Ranunculus sardous
Buttercup, small-flowered	Ranunculus abortivus var. abortivus
Butterfly weed	Asclepias tuberosa spp. interior
Butterweed	Senecio glabellus
Buttonbush	Cephalanthus occidentalis var. occidentalis
Buttonweed, rough	Diodia teres var. teres
Campion, starry	Silene stellata
Cane, giant	Arundinaria gigantea
Cardinal flower	Lobelia cardinalis
Carpetweed	Mollugo verticillata
Carrion flower, powdery	Smilax pulverulenta
Carrot, wild	Daucus carota
Cedar, eastern red	Juniperus virginiana
Chaffweed	Anagallis minima
Cherry, wild black	Prunus serotina
Chervil, wild	Chaerophyllum procumbens var. procumbens
Chess, hairy	Bromus commutatus
Chickweed, common	Stellaria media
Chickweed, common mouse-eared	Cerastium fontanum
Chickweed, field mouse-eared	Cerastium arvense var. villosum
Cicely, sweet	Osmorhiza longistylis var. longistylis
Cinquefoil, common	Potentilla simplex var. simplex
Clearweed	Pilea pumila
Cleavers	Galium aparine var. aparine
Clover, alsike	Trifolium hybridum
Clover, low hop	Trifolium campestre
Clover, red	Trifolium pratense var. pratense
Clover, white	Trifolium repens
Clover, white sweet	Melilotus albus
Cocklebur, common	Xanthium strumarium var. glabratum
Cohosh, blue	Caulophyllum thalictroides
Columbine, wild	Aquilegia canadensis
Columbo, American	Frasera caroliniensis
Coralberry	Symphoricarpos orbiculatus
Coreopsis, tall	Coreopsis tripteris var. tripteris
Corn salad	Valerianella radiata var. radiata
Corydalis, pale	Corydalis flavula
Cottonwood, eastern	Populus deltoides
Crabgrass, hairy	Digitaria sanguinalis
Crabgrass, smooth	Digitaria ischaemum
Cranesbill, Carolina	Geranium carolinianum

Cress, marsh yellow	Rorippa palustris
Cress, perfoliate penny	Thlaspi perfoliatum
Cress, smooth rock	Arabis laevigata
Croton, woolly	Croton capitatus
Crownbeard, yellow	Verbesina helianthoides
Cucumber, bur	Sicyos angulatus
Cudweed, early	Gamochaeta purpurea
Culver's root	Veronicastrum virginicum
Cup plant	Silphium perfoliatum
Daisy, ox-eye	Leucanthemum vulgare
Dandelion, dwarf	Krigia biflora
Day flower, common	Commelina communis
Dead nettle, purple	Lamium purpureum
Dewberry, arching	Rubus enslenii
Dewberry, common	Rubus flagellaris
Dittany	Cunila origanoides
Dock, curly	Rumex crispus
Dock, bitter	Rumex obtusifolius
Dock, sour	Rumex acetosella
Dodder, common	Cuscuta gronovii var. gronovii
Dodder, cusp	Cuscuta cuspidata
Dog fennel	Anthemis cotula
Dog-toothed violet, white	Erythronium albidum
Dogwood, flowering	Cornus florida
Dogwood, pale	Cornus obliqua
Doll's eyes	Actaea pachypoda
Dutchman's breeches	Dicentra cucullaria
Elderberry	Sambucus canadensis var. canadensis
Elderberry	Sambucus canadensis var. submollis
Elephant's foot	Elephantopus carolinianus
Elm, American	Ulmus americana
Elm, slippery	Ulmus rubra
Elm, winged	Ulmus alata
Evening primrose, common	Oenothera biennis
Everlasting, sweet	Pseudognaphalium obtusifolium
Farkleberry	Vaccinium arboreum var. arboreum
Fern, broad beech	Phegopteris hexagonoptera
Fern, Christmas	Polystichum acrostichoides
Fern, fragile	Cystopteris protrusa
Fern, glade	Diplazium pycnocarpon
Fern, Goldie's	Dryopteris goldiana
Fern, grape	Botrychium obliquum var. obliquum
Fern, hairy lip	Cheilanthes lanosa
Fern, lady	Athyrium filix-femina
Fern, maidenhair	Adiantum pedatum
Fern, marginal shield	Dryopteris marginalis
Fern, netted chain	Woodwardia areolata
Fern, rattlesnake	Botrychium virginianum
Fern, sensitive	Onoclea sensibilis
Fern, walking	Asplenium rhizophyllum
Fescue, nodding	Festuca subverticillata
Fescue, six-weeks	Vulpia octoflora var. octoflora
Fescue, tall	Festuca arundinacea
Figwort, late	Scrophularia marilandica
Fimbry, autumn	Fimbristylis autumnalis
Fireweed, white	Erechtites hieracifolia var. hieracifolia
Flatsedge, red-rooted	Cyperus erythrorhizos
Flatsedge, round-headed	Cyperus echinatus
Flatsedge, straw-colored	Cyperus strigosus
Flatsedge, sweet-scented	Kyllinga pumila
Flax, small yellow	Linum medium var. texanum
Fleabane, annual	Erigeron annuus
Fleabane, daisy	Erigeron strigosus
Fleabane, marsh	Erigeron philadelphicus
Forget-me-not, spring	Myosotis verna
Foxglove, narrow-leaved false	Agalinis tenuifolia
Foxglove, tufted false	Agalinis fasciculata
Foxglove, yellow false	Aureolaria flava var. micrantha
Foxtail, giant	Setaria faberi
Foxtail, perennial	Setaria geniculata
Foxtail, yellow	Setaria glauca
Frostweed	Verbesina virginica
Garlic, false	Nothoscordum bivalve
Garlic, field	Allium vineale
Gentian, rose	Sabatia angularis
Geranium, wild	Geranium maculatum
Germander, American	Teucrium canadense
Giant hyssop, yellow	Agastache nepetoides
Ginger, wild	Asarum canadense var. reflexum
Ginseng	Panax quinquefolius
Goat's rue	Tephrosia virginiana var. holosericea
Goldenglow	Rudbeckia laciniata
Goldenrod, blue	Solidago caesia
Goldenrod, broadleaf	Solidago flexicaulis
Goldenrod, Buckley's	Solidago buckleyi
Goldenrod, early	Solidago juncea
Goldenrod, elm-leaved	Solidago ulmifolia
Goldenrod, grass-leaved	Euthamia graminifolia var. nuttallii
Goldenrod, gray	Solidago nemoralis
Goldenrod, Missouri	Solidago missouriensis var. fasciculata
Goldenrod, rough-leaved	Solidago rugosa var. rugosa
Goldenrod, smooth late	Solidago gigantea var. leiophylla
Goldenrod, tall	Solidago altissima
Goldenseal	Hydrastis canadensis
Grama, side-oats	Bouteloua curtipendula
Grape, fox	Vitis vulpina
Grape, riverbank	Vitis riparia
Grape, summer	Vitis aestivalis var. aestivalis
Grape, winter	Vitis cinerea
Grass, awned bent	Agrostis elliottiana
Grass, barnyard	Echinochloa muricata var. muricata
Grass, bead	Paspalum laeve
Grass, beak	Diarrhena obovata
Grass, bottlebrush	Elymus hystrix var. hystrix
Grass, catchfly	Leersia lenticularis
Grass, curly	Danthonia spicata
Grass, fowl manna	Glyceria striata var. striata
Grass, goose	Eleusine indica
Grass, stilt	Microstegium vimineum
Grass, Johnson	Sorghum halepense
Grass, June	Koeleria macrantha
Grass, love	Eragrostis pectinacea
Grass, orchard	Dactylis glomerata
Grass, poverty	Sporobolus vaginiflorus
Grass, reed canary	Phalaris arundinacea
Grass, satin	Muhlenbergia frondosa
Grass, slender bead	Paspalum setaceum var. setaceum
Grass, switch	Panicum virgatum
Grass, tall melic	Melica nitens
Grass, tickle	Agrostis hyemalis
Grass, tumble	Eragrostis spectabilis
Grass, upland bent	Agrostis perennans
Grass, wedge	Sphenopholis obtusata
Grass, white	Leersia virginica

Grass, wood reed	Cinna arundinacea
Grass, woodland satin	Muhlenbergia sobolifera
Green dragon	Arisaema dracontium
Greenbrier, bristly	Smilax tamnoides var. hispida
Greenbrier, glaucous	Smilax glauca var. leurophylla
Greenbrier, round-leaved	Smilax rotundifolia
Greenbrier, saw	Smilax bona-nox var. bona-nox
Greenbrier, saw	Smilax bona-nox var. hederaefolia
Gromwell, American	Lithospermum latifolium
Ground cherry	Physalis pruinosa
Groundnut	Apios americana
Gum, black	Nyssa sylvatica var. caroliniana
Hackberry	Celtis occidentalis var. canina
Hackberry	Celtis occidentalis var. occidentalis
Hackberry, dwarf	Celtis tenuifolia var. tenuifolia
Hawkweed, hairy	Hieracium gronovii
Hawkweed, long-bearded	Hieracium longipilum
Hawthorn, frosted	Crataegus pruinosa
Hazel, American	Corylus americana
Hedge hyssop, clammy	Gratiola neglecta
Hedge nettle, smooth	Stachys tenuifolia
Hedge-apple	Maclura pomifera
Hemlock, water	Cicuta maculata
Hepatica, sharp-lobed	Hepatica acutiloba
Hickory, bitternut	Carya cordiformis
Hickory, black	Carya texana
Hickory, mockernut	Carya tomentosa
Hickory, pignut	Carya glabra var. glabra
Hickory, shagbark	Carya ovata var. ovata
Hickory, sweet pignut	Carya ovalis
Hog peanut	Amphicarpaea bracteata var. bracteata
Holly, deciduous	Ilex decidua
Honewort	Cryptotaenia canadensis
Honeysuckle, Japanese	Lonicera japonica var. japonica
Hops	Humulus lupulus var. lupuloides
Hornbeam, hop	Ostrya virginiana var. lasia
Hornbeam, hop	Ostrya virginiana var. virginiana
Horse nettle	Solanum carolinense
Horsetail, common	Equisetum arvense
Horseweed	Conyza canadensis
Hydrangea, wild	Hydrangea arborescens
Indian hemp	Apocynum cannabinum
Indian physic	Porteranthus stipulatus
Indian pink	Spigelia marilandica
Indian plantain, pale	Arnoglossum atriplicifolium
Indian tobacco	Lobelia inflata
Ironweed, Missouri	Vernonia missurica
Ironweed, smooth tall	Vernonia gigantea var. gigantea
Ironweed, yellow	Verbesina alternifolia
Jack-in-the-pulpit	Arisaema triphyllum ssp. triphyllum
Jimson weed	Datura stramonium
Joe Pye weed, hollow	Eupatoriadelphus fistulosus
Johnny-jump-up	Viola rafinesquii
Knotweed, sidewalk	Polygonum arenastrum
Knotweed, slender	Polygonum tenue
Knotweed, Virginia	Antenoron virginianum
Ladder, Jacob's	Polemonium reptans
Lady's thumb	Persicaria vulgaris
Lamb's quarters	Chenopodium album
Larkspur, dwarf	Delphinium tricorne
Lespedeza, sericea	Lespedeza cuneata
Lettuce, blue wild	Lactuca floridana var. floridana
Lettuce, blue wild	Lactuca floridana var. villosa
Lettuce, great white	Prenanthes crepidinea
Lettuce, hairy	Lactuca hirsuta var. sanguinea
Lettuce, rough white	Prenanthes aspera
Lettuce, tall white	Prenanthes altissima
Lettuce, yellow wild	Lactuca canadensis var. canadensis
Lettuce, yellow wild	Lactuca canadensis var. latifolia
Lily, superb	Lilium superbum
Lily, yellow pond	Nuphar advena
Lobelia, downy blue	Lobelia puberula var. simulans
Locust, black	Robinia pseudoacacia
Locust, honey	Gleditsia triacanthos
Looking glass, Venus'	Triodanis perfoliata
Loosestrife, lance-leaved	Lysimachia lanceolata
Lopseed	Phryma leptostachya
Lousewort	Pedicularis canadensis var. canadensis
Madder, wild	Galium obtusum
Maple, red	Acer rubrum var. rubrum
Maple, sugar	Acer saccharum var. saccharum
Maple, three-lobed red	Acer rubrum var. trilobum
Marsh elder	Iva annua
Mayapple	Podophyllum peltatum
Meadow rue	Thalictrum dasycarpum
Meadow rue, waxy	Thalictrum revolutum
Medic, black	Medicago lupulina
Mexican tea	Chenopodium ambrosioides
Miami mist	Phacelia purshii
Milkweed, climbing	Matelea obliqua
Milkweed, common	Asclepias syriaca var. syriaca
Milkweed, poke	Asclepias exaltata
Milkweed, whorled	Asclepias quadrifolia
Milkwort, field	Polygala sanguinea
Millet, wild	Echinochloa muricata var. wiegandii
Mint, downy wood	Blephilia ciliata
Mint, hairy wood	Blephilia hirsuta
Mint, mountain	Pycnanthemum pycnanthemoides
Mint, slender mountain	Pycnanthemum tenuifolium
Mist flower	Conoclinium coelestinum
Monkey flower, winged	Mimulus alatus
Moonseed	Menispermum canadense
Morning glory, common	Ipomoea purpurea
Morning glory, ivy-leaved	Ipomoea hederacea
Morning glory, small white	Ipomoea lacunosa
Muhly, marsh	Muhlenbergia racemosa
Mulberry, red	Morus rubra
Mulberry, white	Morus alba
Mullein, great	Verbascum thapsus
Musclewood	Carpinus caroliniana var. caroliniana
Nettle, false	Boehmeria cylindrica var. cylindrica
Nettle, wood	Laportea canadensis
Nightshade, black	Solanum ptycanthum
Nightshade, enchanter's	Circaea lutetiana ssp. canadensis
Nimble Will	Muhlenbergia schreberi
Nits-and-lice	Hypericum drummondii
Oak, black	Quercus velutina
Oak, blackjack	Quercus marilandica
Oak, chinquapin	Quercus muhlenbergii
Oak, post	Quercus stellata
Oak, red	Quercus rubra
Oak, scarlet	Quercus coccinea
Oak, shingle	Quercus imbricaria
Oak, white	Quercus alba

Oats, inland	Chasmanthium latifolium
Olive, autumn	Elaeagnus umbellata
Onion, wild	Allium canadense var. canadense
Orchid, green fringed	Platanthera lacera
Orchid, putty-root	Aplectrum hyemale
Panic grass, beaked	Panicum anceps
Panic grass, broad-leaved	Dichanthelium commutatum var. commutatum
Panic grass, broom	Dichanthelium scoparium
Panic grass, deer-tongue	Dichanthelium clandestinum
Panic grass, forked	Dichanthelium dichotomum
Panic grass, large-fruited	Dichanthelium boscii var. boscii
Panic grass, loose-flowered	Dichanthelium laxiflorum
Panic grass, old-field	Dichanthelium acuminatum var. fasciculatum
Panic grass, round-fruited	Dichanthelium polyanthes
Panic grass, slender	Panicum flexile
Panic grass, small-fruited	Dichanthelium microcarpon
Panic grass, soft-leaved	Dichanthelium malacophyllum
Panic grass, starved	Dichanthelium depauperatum
Panic grass, Yadkin	Dichanthelium yadkinense
Panicum, fall	Panicum dichotomiflorum var. dichotomiflorum
Partridge pea	Chamaecrista fasciculata var. fasciculata
Partridge pea, small	Chamaecrista nictitans
Pawpaw	Asimina triloba
Pellitory	Parietaria pensylvanica
Pencil flower	Stylosanthes biflora
Pennyroyal, American	Hedeoma pulegioides
Pepper grass, common	Lepidium virginicum
Persimmon	Diospyros virginiana var. pubescens
Persimmon	Diospyros virginiana var. virginiana
Petunia, wild	Ruellia humilis
Phlox, blue	Phlox divaricata ssp. laphamii
Phlox, garden	Phlox paniculata
Phlox, smooth	Phlox glaberrima ssp. interior
Pimpernel, slender false	Lindernia anagallidea
Pine, shortleaf	Pinus echinata
Pineweed	Hypericum gentianoides
Pink, Deptford	Dianthus armeria
Pinweed, narrow-leaved	Lechea tenuifolia
Plantain, Rugel's	Plantago rugelii
Plantain, Virginia	Plantago virginica
Plum, wild	Prunus americana
Poison ivy	Toxicodendron radicans var. negundo
Poison ivy	Toxicodendron radicans var. radicans
Pokeweed	Phytolacca americana
Polypody, common	Polypodium virginianum
Prickly pear, common	Opuntia humifusa
Primrose willow, creeping	Ludwigia peploides ssp. glabrescens
Purple-top	Tridens flavus
Purslane, marsh	Ludwigia palustris var. americana
Pusseytoes	Antennaria plantaginifolia
Quillwort, black	Isoetes melanopoda
Ragweed, common	Ambrosia artemisiifolia
Ragweed, giant	Ambrosia trifida var. trifida
Ragweed, lance-leaved	Ambrosia bidentata
Ragwort, golden	Senecio aureus var. gracilis
Raspberry, black	Rubus occidentalis
Rattlebox	Crotalaria sagittalis
Redbud	Cercis canadensis
Redtop	Agrostis gigantea
Rocket, yellow	Barbarea vulgaris var. arcuata
Rose, multiflora	Rosa multiflora
Rose, pasture	Rosa carolina
Rose, prairie	Rosa setigera var. tomentosa
Rue anemone	Anemonella thalictroides
Rush, common wood	Luzula multiflora
Rush, grass-leaved	Juncus marginatus
Rush, inland	Juncus interior
Rush, long-fruited	Juncus diffusissimus
Rush, one-sided	Juncus secundus
Rush, path	Juncus tenuis
Rush, pointed	Juncus acuminatus
Rush, short-fruited	Juncus brachycarpus
Rush, soft	Juncus effusus var. solutus
Rush, two-flowered	Juncus biflorus var. biflorus
Rushfoil, elliptical	Crotonopsis elliptica
Rye, riverbank wild	Elymus riparius
Rye, silky wild	Elymus villosus
Rye, Virginia wild	Elymus virginicus var. virginicus
Rye, Virginia wild	Elymus virginicus var. glabriflorus
Sage, lyre-leaved	Salvia lyrata
Sassafras	Sassafras albidum var. albidum
Sassafras, red	Sassafras albidum var. molle
Sedge, blue	Carex glaucodea
Sedge, blunt-scaled oak	Carex albicans
Sedge, blunt-scaled wood	Carex albursina
Sedge, bottlebrush	Carex lurida
Sedge, bristly cattail	Carex frankii
Sedge, brown fox	Carex vulpinoidea
Sedge, Carey's wood	Carex careyana
Sedge, common wood	Carex blanda
Sedge, curly-styled wood	Carex rosea
Sedge, downy green	Carex swanii
Sedge, early oak	Carex umbellata
Sedge, fescue oval	Carex festucacea
Sedge, fringed	Carex crinita var. brevicrinis
Sedge, fuzzy-fruited sharp-scaled	Carex oxylepis var. pubescens
Sedge, gray	Carex amphibola
Sedge, hairy green	Carex hirsutella
Sedge, hidden oak	Carex abdita
Sedge, James'	Carex jamesii
Sedge, long-scaled green	Carex bushii
Sedge, narrow-leaved wood	Carex digitalis
Sedge, reflexed	Carex retroflexa
Sedge, sand bracted	Carex muhlenbergii
Sedge, short-headed bracted	Carex cephalophora
Sedge, weak-stemmed wood	Carex laxiculmis
Sedge, Willdenow's	Carex willdenowii
Sedge, wood gray	Carex grisea
Sedge, yellow fox	Carex brachyglossa
Seedbox	Ludwigia alternifolia var. alternifolia
Self-heal	Prunella vulgaris var. elongata
Self-heal	Prunella vulgaris var. vulgaris
Senna, wild	Senna marilandica
Shadbush	Amelanchier arborea
Shooting star	Dodecatheon meadia
Shooting star, French's	Dodecatheon frenchii
Sicklepod	Arabis canadensis
Sida, prickly	Sida spinosa
Skullcap, downy	Scutellaria incana
Skullcap, hairy	Scutellaria elliptica

Smartweed, creeping	Persicaria cespitosa
Smartweed, pink	Persicaria pensylvanica var. pensylvanica
Smartweed, spotted	Persicaria punctata
Snakeroot, Canada black	Sanicula canadensis var. canadensis
Snakeroot, clustered black	Sanicula odorata
Snakeroot, Virginia	Aristolochia serpentaria
Snakeroot, white	Ageratina altissima
Sneezeweed, purple	Helenium flexuosum
Solomon's seal	Polygonatum commutatum
Solomon's seal, false	Smilacina racemosa
Solomon's seal, small	Polygonatum biflorum
Spanish needles	Bidens bipinnata
Spicebush	Lindera benzoin var. benzoin
Spicebush	Lindera benzoin var. pubescens
Spiderwort, broad-leaved	Tradescantia subaspera var. subaspera
Spiderwort, Virginia	Tradescantia virginiana
Spike rush, blunt	Eleocharis ovata var. obtusa
Spike rush, slender	Eleocharis verrucosa
Spleenwort, ebony	Asplenium platyneuron var. platyneuron
Spleenwort, silvery	Deparia acrostichoides
Spring beauty	Claytonia virginica
Spurge, flowering	Euphorbia corollata var. corollata
Spurge, spotted creeping	Chamaesyce maculata
Spurge, spreading	Chamaesyce humistrata
St. Andrew's cross	Ascyrum multicaule
St. John's wort, dwarf	Hypericum mutilum
St. John's wort, shrubby	Hypericum prolificum
St. John's wort, spotted	Hypericum punctatum
Star grass, yellow	Hypoxis hirsuta
Starwort, terrestrial	Callitriche terrestris
Stonecrop, ditch	Penthorum sedoides
Stonecrop, three-leaved	Sedum ternatum
Sugarberry	Celtis laevigata var. laevigata
Sumac, smooth	Rhus glabra
Sumac, winged	Rhus copallina
Sundrops, thread-leaved	Oenothera linifolia
Sunflower, false	Heliopsis helianthoides var. helianthoides
Sunflower, hispid	Helianthus hirsutus
Sunflower, small-headed	Helianthus microcephalus
Sunflower, woodland	Helianthus divaricatus
Susan, black-eyed	Rudbeckia hirta var. hirta
Susan, brown-eyed	Rudbeckia triloba
Swamp marigold	Bidens aristosa var. aristosa
Swamp marigold	Bidens aristosa var. fritcheyi
Sweet potato, wild	Ipomoea pandurata
Sweetgum	Liquidambar styraciflua
Sycamore	Platanus occidentalis
Tear thumb	Tracaulon sagittatum
Thistle, field	Cirsium discolor
Thistle, tall	Cirsium altissimum
Three-awn	Aristida dichotoma
Three-seeded Mercury, rhombic	Acalypha rhomboidea
Three-seeded Mercury, slender	Acalypha gracilens var. gracilens
Three-seeded Mercury, Virginia	Acalypha virginica
Tick trefoil, bare-stemmed	Desmodium nudiflorum
Tick trefoil, glaucous	Desmodium laevigatum
Tick trefoil, hairy small-leaved	Desmodium ciliare
Tick trefoil, hoary	Desmodium canescens
Tick trefoil, panicled	Desmodium paniculatum
Tick trefoil, round-leaved	Desmodium rotundifolium
Tick trefoil, showy	Desmodium canadense
Tick trefoil, smooth	Desmodium glabellum
Tick trefoil, smooth small-leaved	Desmodium marilandicum
Tickseed	Coreopsis pubescens
Timothy	Phleum pratense
Tomato	Lycopersicon esculentum
Tooth-cup	Rotala ramosior
Toothwort	Dentaria laciniata
Touch-me-not, orange	Impatiens capensis
Touch-me-not, pale	Impatiens pallida
Trillium, purple	Trillium recurvatum
Trillium, white	Trillium flexipes
Trumpet creeper	Campsis radicans
Tuliptree	Liriodendron tulipifera
Valerian, pink	Valeriana pauciflora
Velvet-leaf	Abutilon theophrastii
Vervain, white	Verbena urticifolia var. urticifolia
Violet, arrow-leaved	Viola sagittata
Violet, cleft	Viola palmata var. dilatata
Violet, cream	Viola striata
Violet, green	Hybanthus concolor
Violet, Missouri	Viola missouriensis
Violet, wooly blue	Viola sororia
Virgin's bower	Clematis virginiana
Virginia creeper	Parthenocissus quinquefolia
Wahoo	Euonymus atropurpureus
Walnut, black	Juglans nigra
Water plantain, small-flowered	Alisma subcordatum
Water willow	Justicia americana
Waterleaf, broad-leaved	Hydrophyllum canadense
Waterleaf, Virginia	Hydrophyllum virginianum
Whitlow grass, common	Draba reptans
Widow's cross	Sedum pulchellum
Wild licorice, hairy	Galium circaezans var. hypomalacum
Willow, black	Salix nigra
Wood sorrel, violet	Oxalis violacea
Wood sorrel, yellow	Oxalis fontana
Wood sorrel, yellow	Oxalis stricta
Woodsia, common	Woodsia obtusa
Wool grass	Scirpus cyperinus
Yam, Chinese	Dioscorea oppositifolia
Yam, wild	Dioscorea quaternata var. quaternata
Yam, wild	Dioscorea villosa
Yarrow	Achillea millefolium var. millefolium
Yerba de tajo	Eclipta prostrata
Yucca	Yucca smalliana

Final Report: Floristic Survey of the Lusk Creek Wilderness Parcel in Pope County, Illinois

Date: October 15, 2010

Grant agreement #10-L04W

Grantee name, address, and telephone: Illinois Audubon Society, Box 2547, Springfield, Illinois 62708; (217)544-2473

Time-frame of the report: April 28 to September 22, 2010

Name and telephone number of Grantee's representative completing the report:
John White, (217)344-5041

Project objectives as described in the application and grant agreement: (1) Generate a plant species list identifying general floristic composition (dominant and characteristic species), and document the presence of any rare, threatened, or endangered species within the project area. (2) Determine the presence or extent of any exotic/invasive species present within the site.

Completed Project description and summary of the Project accomplishments: See the accompanying technical report, *Flora of the Illinois Audubon Society's Lusk Creek Property in Pope County, Illinois*.

Deliverables of five to ten digital images depicting the study species, Project site, Project activities, or other aspects of the Project: See the accompanying set of digital photographs.

List of wildlife and/or native plant resources (by species) that benefited from the Project and how they benefited: Acalypha gracilens var. gracilens, Acalypha rhomboidea, Acalypha virginica, Acer negundo var. negundo, Acer rubrum var. rubrum, Acer rubrum var. trilobum, Acer saccharum var. saccharum, Actaea pachypoda (Actaea alba), Adiantum pedatum, Aesculus glabra var. glabra, Agalinis fasciculata (Gerardia fasciculata), Agalinis tenuifolia (Gerardia tenuifolia), Agastache nepetoides, Ageratina altissima (Eupatorium rugosum), Agrimonia parviflora, Agrimonia rostellata, Agrostis elliottiana, Agrostis hyemalis, Agrostis perennans, Alisma subcordatum (Alisma plantago-aquatica var. parvifolium), Allium canadense var. canadense, Alnus serrulata, Ambrosia artemisiifolia, Ambrosia bidentata, Ambrosia trifida var. trifida, Amelanchier arborea, Ampelamus albidus, Amphicarpaea bracteata var. bracteata, Amsonia tabernaemontana var. tabernaemontana, Anagallis minima (Centunculus minimus), Andropogon gerardii, Andropogon gyrans (Andropogon elliottii), Andropogon virginicus, Anemone virginiana, Anemonella thalictroides, Antennaria plantaginifolia, Antenoron virginianum (Polygonum virginianum, Tovara virginiana), Apios americana, Aplectrum hyemale, Apocynum cannabinum, Aquilegia canadensis, Arabis canadensis, Arabis laevigata, Arisaema dracontium, Arisaema triphyllum ssp. triphyllum, Aristida dichotoma, Aristolochia serpentaria, Arnoglossum atriplicifolium (Cacalia atriplicifolia), Arundinaria gigantea, Asarum canadense var. reflexum, Asclepias exaltata (Asclepias phytolaccoides), Asclepias quadrifolia, Asclepias syriaca var. syriaca, Asclepias tuberosa spp. interior, Ascyrum multicaule (Hypericum stragulum), Asimina triloba, Asplenium platyneuron var. platyneuron, Asplenium rhizophyllum, Aster lanceolatus var. simplex (Aster simplex), Aster lateriflorus, Aster patens, Aster pilosus, Aster praealtus var. praealtus, Aster sagittifolius, Aster shortii, Aster turbinellus, Athyrium felix-femina, Aureolaria flava var. micrantha, Betula nigra, Bidens aristosa var. aristosa, Bidens aristosa var. fritcheyi, Bidens bipinnata, Bidens frondosa, Bidens polylepis, Blephilia ciliata, Blephilia hirsuta, Boehmeria cylindrica var. cylindrica, Botrychium obliquum var. obliquum, Botrychium virginianum, Bouteloua curtipendula, Brachyelytrum erectum, Bromus pubescens, Callitriche terrestris, Campanulastrum americanum var. americanum (Campanula americana), Campsis radicans, Carex abdita, Carex albicans (Carex artitecta), Carex albursina, Carex amphibola, Carex blanda, Carex brachyglossa (Carex annectens), Carex bushii, Carex careyana, Carex cephalophora, Carex crinita var. brevicrinis, Carex digitalis, Carex festucacea, Carex frankii,

Carex glaucodea, Carex grisea, Carex hirsutella, Carex jamesii, Carex laxiculmis, Carex lurida, Carex muhlenbergii, Carex oxylepis var. pubescens, Carex retroflexa, Carex rosea (Carex convoluta), Carex swanii, Carex umbellata, Carex vulpinoidea (Carex annectens), Carex willdenowii, Carpinus caroliniana var. caroliniana, Carya cordiformis, Carya glabra var. glabra, Carya ovalis, Carya ovata var. ovata, Carya texana, Carya tomentosa, Caulophyllum thalictroides, Celtis laevigata var. laevigata, Celtis occidentalis var. canina, Celtis occidentalis var. occidentalis, Celtis tenuifolia var. tenuifolia, Cephalanthus occidentalis var. occidentalis, Cerastium arvense var. villosum, Cercis canadensis, Chaerophyllum procumbens var. procumbens, Chamaecrista fasciculata var. fasciculata (Cassia fasciculata), Chamaecrista nictitans (Cassia nictitans), Chamaesyce humistrata (Euphorbia humistrata), Chamaesyce maculata (Chamaesyce supina, Euphorbia maculata, Euphorbia supina), Chasmanthium latifolium (Uniola latifolia), Cheilanthes lanosa, Cicuta maculata, Cimicifuga rubifolia, Cinna arundinacea, Circaea lutetiana ssp. canadensis, Cirsium altissimum, Cirsium discolor, Claytonia virginica, Clematis virginiana, Conoclinium coelestinum (Eupatorium coelestinum), Conyza canadensis (Erigeron canadensis), Coreopsis pubescens, Coreopsis tripteris var. tripteris, Cornus florida, Cornus obliqua, Corydalis flavula, Corylus americana, Crataegus pruinosa (Crataegus mackenzii, Crataegus rugosa), Crotalaria sagittalis, Croton capitatus, Crotonopsis elliptica, Cryptotaenia canadensis, Cunila origanoides, Cuscuta cuspidata, Cuscuta gronovii var. gronovii, Cyperus echinatus (Cyperus ovularis), Cyperus erythrorhizos, Cyperus strigosus, Cystopteris protrusa (Cystopteris fragilis var. protrusa), Danthonia spicata, Delphinium tricorne, Dentaria laciniata, Deparia acrostichoides (Athyrium thelypterioides), Desmodium canadense, Desmodium canescens, Desmodium ciliare, Desmodium glabellum, Desmodium laevigatum, Desmodium marilandicum, Desmodium nudiflorum, Desmodium paniculatum, Desmodium rotundifolium, Diarrhena obovata (Diarrhena americana), Dicentra cucullaria, Dichanthelium acuminatum var. fasciculatum (Panicum lanuginosum var. fasciculatum, Panicum tennesseense), Dichanthelium boscii var. boscii, Dichanthelium clandestinum (Panicum clandestinum), Dichanthelium commutatum var. commutatum (Panicum commutatum var. commutatum), Dichanthelium depauperatum (Panicum depauperatum), Dichanthelium dichotomum (Panicum barbulatum, Panicum dichotomum), Dichanthelium laxiflorum (Panicum laxiflorum, Panicum xalapense), Dichanthelium malacophyllum (Panicum malacophyllum), Dichanthelium microcarpon (Panicum microcarpon), Dichanthelium polyanthes (Panicum polyanthes), Dichanthelium scoparium (Panicum scoparium), Dichanthelium yadkinense (Panicum yadkinense), Diodia teres var. teres, Dioscorea quaternata var. quaternata, Dioscorea villosa, Diospyros virginiana var. pubescens, Diospyros virginiana var. virginiana, Diplazium pycnocarpon (Athyrium pycnocarpon), Dodecatheon frenchii, Dodecatheon meadia, Draba reptans, Dryopteris goldiana, Dryopteris marginalis, Echinochloa muricata var. muricata (Echinochloa pungens var. pungens), Echinochloa muricata var. wiegandii (Echinochloa pungens var. wiegandii), Eclipta prostrata (Eclipta alba), Eleocharis ovata var. obtusa (Eleocharis obtusa), Eleocharis verrucosa (Eleocharis tenuis var. verrucosa), Elephantopus carolinianus, Elymus hystrix var. hystrix (Hystrix patula), Elymus riparius, Elymus villosus, Elymus virginicus var. glabriflorus, Elymus virginicus var. virginicus , Equisetum arvense, Eragrostis pectinacea, Eragrostis spectabilis, Erechtites hieracifolia var. hieracifolia, Erigeron annuus, Erigeron philadelphicus, Erigeron strigosus, Erythronium albidum, Euonymus atropurpureus, Eupatoriadelphus fistulosus (Eupatorium fistulosum), Eupatorium perfoliatum, Eupatorium serotinum, Euphorbia corollata var. corollata, Euthamia graminifolia var. nuttallii (Solidago graminifolia var. nuttallii), Fagus grandifolia var. caroliniana, Fallopia cristata (Polygonum scandens var. cristata), Fallopia scandens (Polygonum scandens var. scandens), Festuca subverticillata (Festuca obtusa), Fimbristylis autumnalis, Frangula caroliniana (Rhamnus caroliniana), Frasera caroliniensis (Swertia caroliniensis), Fraxinus americana var. americana, Fraxinus pennsylvanica, Galium aparine var. aparine, Galium circaezans var. hypomalacum, Galium concinnum, Galium obtusum, Galium pilosum, Galium triflorum, Gamochaeta purpurea (Gnaphalium purpureum), Geranium carolinianum, Geranium maculatum, Geum canadense var. canadense, Geum vernum, Gleditsia triacanthos, Glyceria striata var. striata, Gratiola neglecta, Hedeoma pulegioides, Helenium flexuosum (Helenium nudiflorum), Helianthus divaricatus, Helianthus hirsutus, Helianthus microcephalus, Helianthus tuberosus var. tuberosus, Heliopsis helianthoides var. helianthoides, Hepatica acutiloba, Heuchera americana var. hirsuticaulis, Heuchera parviflora var. rugelii, Hieracium gronovii, Hieracium longipilum, Houstonia lanceolata, Houstonia pusilla, Humulus lupulus var. lupuloides, Hybanthus concolor, Hydrangea arborescens, Hydrastis cana-

densis, Hydrophyllum canadense, Hydrophyllum virginianum, Hypericum drummondii, Hypericum gentianoides, Hypericum mutilum, Hypericum prolificum, Hypericum punctatum, Hypoxis hirsuta, Ilex decidua, Impatiens capensis (Impatiens biflora), Impatiens pallida, Ipomoea lacunosa, Ipomoea pandurata, Isoetes melanopoda (Isoetes butleri), Iva annua (Iva ciliata), Juglans nigra, Juncus acuminatus, Juncus biflorus var. biflorus, Juncus brachycarpus, Juncus diffusissimus, Juncus effusus var. solutus, Juncus interior, Juncus marginatus, Juncus secundus, Juncus tenuis, Juniperus virginiana, Justicia americana (Dianthera americana), Koeleria macrantha (Koeleria cristata), Krigia biflora, Kyllinga pumila (Cyperus densicaespitosus), Lactuca canadensis var. canadensis, Lactuca canadensis var. latifolia, Lactuca floridana var. floridana, Lactuca floridana var. villosa, Lactuca hirsuta var. sanguinea, Laportea canadensis, Lechea tenuifolia, Leersia lenticularis, Leersia virginica, Lepidium virginicum, Lespedeza intermedia, Lespedeza procumbens var. elliptica, Lespedeza repens, Lilium superbum, Lindera benzoin var. benzoin, Lindera benzoin var. pubescens, Lindernia anagallidea, Linum medium var. texanum, Liquidambar styraciflua, Liriodendron tulipifera, Lithospermum latifolium, Lobelia cardinalis, Lobelia inflata, Lobelia puberula var. simulans, Ludwigia alternifolia var. alternifolia, Ludwigia palustris var. americana, Ludwigia peploides ssp. glabrescens (Jussiaea repens var. glabrescens), Luzula multiflora, Lycopus virginicus, Lysimachia lanceolata, Manfreda virginica (Agave virginica, Polianthes virginica), Matelea obliqua (Gonolobus obliquus), Melica nitens, Menispermum canadense, Mertensia virginica, Mimulus alatus, Monarda bradburiana, Morus rubra, Muhlenbergia frondosa, Muhlenbergia racemosa, Muhlenbergia schreberi, Muhlenbergia sobolifera, Myosotis verna, Nothoscordum bivalve, Nuphar advena (Nuphar luteum ssp. macrophyllum), Nyssa sylvatica var. caroliniana, Oenothera biennis, Oenothera linifolia, Onoclea sensibilis, Opuntia humifusa (Opuntia rafinesquii), Osmorhiza longistylis var. longistylis, Ostrya virginiana var. lasia, Ostrya virginiana var. virginiana, Oxalis fontana (Oxalis stricta), Oxalis stricta (Oxalis dillenii), Oxalis violacea, Panax quinquefolius, Panicum anceps, Panicum dichotomiflorum var. dichotomiflorum, Panicum flexile, Panicum virgatum, Parietaria pensylvanica, Parthenocissus quinquefolia, Paspalum laeve, Paspalum setaceum var. setaceum, Pedicularis canadensis var. canadensis, Penstemon pallidus, Penthorum sedoides, Persicaria pensylvanica var. pensylvanica (Polygonum pensylvanicum var. pensylvanicum), Persicaria punctata (Polygonum punctatum), Phacelia purshii, Phaseolus polystachios, Phegopteris hexagonoptera (Dryopteris hexagonoptera, Thelypteris hexagonoptera), Phlox divaricata ssp. laphamii, Phlox glaberrima ssp. interior, Phlox paniculata, Phryma leptostachya, Physalis pruinosa, Phytolacca americana, Pilea pumila, Plantago rugelii, Plantago virginica, Platanthera lacera (Habenaria lacera), Platanus occidentalis, Pleopeltis polypodioides (Polypodium polypodioides var. michauxianum), Poa sylvestris, Podophyllum peltatum, Polemonium reptans, Polygala sanguinea, Polygonatum biflorum, Polygonatum commutatum, Polygonum tenue, Polystichum acrostichoides, Populus deltoides, Porteranthus stipulatus (Gillenia stipulata), Potentilla simplex var. simplex, Prenanthes altissima, Prenanthes aspera, Prenanthes crepidinea, Prunella vulgaris var. elongata, Prunus americana (Prunus lanata), Prunus serotina, Pseudognaphalium obtusifolium (Gnaphalium obtusifolium), Pycnanthemum pycnanthemoides, Pycnanthemum tenuifolium (Pycnanthemum flexuosum), Quercus alba, Quercus coccinea, Quercus imbricaria, Quercus marilandica, Quercus muhlenbergii, Quercus rubra, Quercus stellata, Quercus velutina, Ranunculus abortivus var. abortivus, Ranunculus recurvatus, Rhus copallina, Rhus glabra, Rorippa palustris (Rorippa islandica), Rosa carolina, Rosa setigera var. tomentosa, Rotala ramosior, Rubus allegheniensis, Rubus enslenii, Rubus flagellaris, Rubus occidentalis, Rubus pensilvanicus, Rudbeckia hirta var. hirta, Rudbeckia laciniata, Rudbeckia triloba, Ruellia humilis, Sabatia angularis, Salix nigra, Salvia lyrata, Sambucus canadensis var. canadensis, Sambucus canadensis var. submollis, Sanguinaria canadensis, Sanicula canadensis var. canadensis, Sanicula odorata (Sanicula gregaria), Sassafras albidum var. albidum, Sassafras albidum var. molle, Schizachyrium scoparium (Andropogon scoparius), Scirpus cyperinus (Scirpus rubicosus), Scirpus georgianus (Scirpus atrovirens var. georgianus), Scrophularia marilandica, Scutellaria elliptica, Scutellaria incana, Sedum pulchellum, Sedum ternatum, Senecio aureus var. gracilis, Senecio glabellus, Senna marilandica (Cassia marilandica), Setaria geniculata, Sicyos angulatus, Silene stellata, Silphium perfoliatum, Sisyrinchium albidum, Smilacina racemosa, Smilax bona-nox var. bona-nox, Smilax bona-nox var. hederaefolia, Smilax glauca var. leurophylla, Smilax pulverulenta, Smilax rotundifolia, Smilax tamnoides var. hispida (Smilax hispida), Solanum carolinense, Solanum ptycanthum (Solanum americanum, Solanum nigrum), Solidago altissima (Solidago canadensis), Solidago

buckleyi, Solidago caesia, Solidago flexicaulis, Solidago gigantea var. leiophylla, Solidago juncea, Solidago missouriensis var. fasciculata, Solidago nemoralis, Solidago rugosa var. rugosa, Solidago ulmifolia, Sphenopholis obtusata, Spigelia marilandica, Sporobolus vaginiflorus, Stachys tenuifolia, Staphylea trifolia, Strophostyles umbellata, Stylosanthes biflora, Symphoricarpos orbiculatus, Tephrosia virginiana var. holosericea, Teucrium canadense, Thalictrum dasycarpum, Thalictrum revolutum, Tilia americana, Toxicodendron radicans var. negundo (Rhus radicans var. negundo), Toxicodendron radicans var. radicans (Rhus radicans var. radicans), Tracaulon sagittatum (Polygonum sagittatum), Tradescantia subaspera var. subaspera, Tradescantia virginiana, Trichostema dichotomum, Tridens flavus (Triodia flava), Trillium flexipes (Trillium gleasonii), Trillium recurvatum, Triodanis perfoliata (Specularia perfoliata), Ulmus alata, Ulmus americana, Ulmus rubra, Uvularia grandiflora, Vaccinium arboreum var. arboreum, Valeriana pauciflora, Valerianella radiata var. radiata, Verbena urticifolia var. urticifolia, Verbesina alternifolia, Verbesina helianthoides, Verbesina virginica, Vernonia gigantea var. gigantea (Vernonia altissima var. altissima), Vernonia missurica, Veronicastrum virginicum, Viburnum prunifolium, Viola missouriensis, Viola palmata var. dilatata, Viola sagittata, Viola sororia (Viola papilionacea, Viola pratincola), Viola striata, Vitis aestivalis var. aestivalis, Vitis cinerea, Vitis riparia, Vitis vulpina, Vulpia octoflora var. octoflora (Festuca octoflora var. octoflora), Woodsia obtusa, Woodwardia areolata, Xanthium strumarium var. glabratum (Xanthium chinense), and Zizia aurea, especially the State Endangered or Threatened species sharp-scaled sedge (Carex oxylepis), Willdenow's sedge (Carex willdenowii), Appalachian bugbane (Cimicifuga rubifolia), Yadkin panic grass (Dichanthelium yadkinense), French's shooting star (Dodecatheon frenchii), and climbing milkweed (Matelea obliqua). The above-listed species benefited because the landowner has been notified of their presence on the site (populations of the Endangered and Threatened species were described by the Contractor in detail with Element Occurrence Records), and the landowner can take the presence of these species into consideration when managing the property. The above-listed species also benefited because the landowner has been notified of the presence of the following non-native species that compete with native species for habitat and resources on the property, and the landowner can take this information into consideration when managing the property: Abutilon theophrastii, Achillea millefolium var. millefolium, Agrostis gigantea (Agrostis alba var. alba), Allium vineale, Anthemis cotula, Barbarea vulgaris var. arcuata, Bromus commutatus, Bromus inermis, Cerastium fontanum (Cerastium vulgatum), Chenopodium album, Chenopodium ambrosioides, Commelina communis, Dactylis glomerata, Datura stramonium, Daucus carota, Dianthus armeria, Digitaria ischaemum, Digitaria sanguinalis, Dioscorea oppositifolia (Dioscorea batatas, Dioscorea polystachya), Elaeagnus umbellata, Eleusine indica, Festuca arundinacea (Festuca elatior var. arundinacea), Ipomoea hederacea, Ipomoea purpurea, Kummerowia striata (Lespedeza striata), Lamium purpureum, Lespedeza cuneata, Leucanthemum vulgare (Chrysanthemum leucanthemum), Lonicera japonica var. japonica, Lycopersicon esculentum, Maclura pomifera, Medicago lupulina, Melilotus albus, Microstegium vimineum, Mollugo verticillata, Morus alba, Perilla frutescens var. frutescens, Persicaria cespitosa (Polygonum cespitosum var. longisetum), Persicaria vulgaris (Polygonum persicaria), Phalaris arundinacea, Phleum pratense, Plantago lanceolata, Poa compressa, Poa pratensis, Polygonum arenastrum (Polygonum aviculare), Prunella vulgaris var. vulgaris, Ranunculus sardous, Rosa multiflora, Rumex acetosella, Rumex crispus, Rumex obtusifolius, Setaria faberi, Setaria glauca (Setaria lutea, Setaria lutescens), Sida spinosa, Sorghum halepense, Stellaria media, Thlaspi perfoliatum, Trifolium campestre, Trifolium hybridum, Trifolium pratense var. pratense, Trifolium repens, Verbascum thapsus, Viola rafinesquii, and Yucca smalliana (Yucca filamentosa), especially the highly invasive exotic species Johnson grass (Sorghum halepense), sericea lespedeza (Lespedeza cuneata), Japanese honeysuckle (Lonicera japonica), autumn olive (Elaeagnus umbellata), Chinese yam (Dioscorea oppositifolia), and stilt grass (Microstegium vimineum).

Specific audience affected: Citizens of the State of Illinois.

Measurable outcomes achieved: 56.89 acres surveyed for vascular plant species.

List of products resulting from the Project: Final report for the Illinois Wildlife Preservation Fund (Floristic Survey of the Lusk Creek Wilderness Parcel in Pope County, Illinois), report to the Illinois Audubon Society (*Flora of the Illinois Audubon Society's Lusk Creek Property in Pope County, Illinois*), photographs of the study area, and Element Occurrence Records for Carex oxylepis, Carex willdenowii, Cimicifuga rubifolia, Dichanthelium yadkinense, Dodecatheon frenchii, and Matelea obliqua.

Total Project expenditures itemized to include the name and address of the contractor, number of hours worked per date, and total hours worked: Ecological Services, 904 South Anderson Street, Urbana, Illinois 61801. March 20, 2010, 1.5 hr.; March 27, 0.25 hr.; March 29, 3.75 hr.; March 30, 0.25 hr.; April 2, 0.25 hr.; April 8, 1 hr.; April 10, 0.25 hr.; April 12, 0.5 hr.; April 13, 0.25 hr.; April 17, 0.25 hr.; April 18, 0.75 hr.; April 19, 1.5 hr.; April 21, 1.5 hr.; April 24, 0.25 hr.; April 27, 11.5 hr.; April 28, 25.5 hr.; June 4, 0.25 hr.; June 7, 0.5 hr.; June 10, 8.5 hr.; June 11, 16.5 hr.; June 12, 2.25 hr.; June 13, 9.5 hr.; June 14, 12 hr.; June 15, 7.5 hr.; June 16, 2 hr.; June 17, 5.5 hr.; June 18, 10.5 hr.; June 19, 6.5 hr.; June 20, 2.5 hr.; June 21, 0.75 hr.; June 22, 1.5 hr.; June 23, 6.75 hr.; June 24, 16 hr.; June 25, 1.75 hr.; June 26, 2 hr.; June 27, 14.75 hr.; June 28, 5 hr.; June 29, 6 hr.; June 30, 4.75 hr.; July 1, 7.5 hr.; July 2, 7.25 hr.; July 3, 0.25 hr.; July 6, 0.75 hr.; July 7, 6.5 hr.; July 11, 4 hr.; July 17, 0.25 hr.; July 18, 0.25 hr.; July 20, 0.25 hr.; August 25, 0.25 hr.; August 26, 0.25 hr.; September 6, 0.25 hr.; September 8, 0.25 hr.; September 9, 0.5 hr.; September 11, 0.75 hr.; September 14, 0.25 hr.; September 15, 0.25 hr.; September 16, 0.25 hr.; September 17, 12.75 hr.; September 18, 11.25 hr.; September 20, 1.75 hr.; September 21, 10.5 hr.; September 22, 10.75 hr.; September 23, 7.25 hr.; September 24, 6.5 hr.; September 26, 2.25 hr.; September 27, 5 hr.; September 28, 0.25 hr.; September 29, 1.25 hr.; September 30, 9.75 hr.; October 1, 12.75 hr.; October 2, 10.5 hr.; October 3, 12.25 hr.; October 4, 13.75 hr.; October 5, 12.25 hr.; October 6, 9.5 hr.; October 7, 3.25 hr.; October 8, 3.75 hr.; October 9, 1 hr.; October 10, 2.25 hr.; October 11, 0.25 hr.; October 14, 4 hr.; October 15, 8.25 hr.; Total, 395.5 hours.

0:01

Plant EOR Field Data Form

Scientific Name: Carex oxylepis

New ☑ **Update** ☐ **Eo Occurrence #:** _____ **Survey Type:** On-site survey

Date: 06 / 24 / 10 **Naturally Occurring** ☑ **Introduced** ☐ **when(if known)** _____

County: Pope **Latitude:** N 37° 32.3077' **Longitude:** W 88° 32.2024'

INAI Site Name: _____ **Survey Site (alias):** _____

Directions: Look for the plant in the woods upslope from the glade.

Habitat Description: Dry upland forest. Canopy: Juniperus virginiana, Ulmus alata, Fraxinus americana. Understory: Ostrya virginiana, Smilax bona-nox, Fraxinus americana. Ground layer: Carex oxylepis, Antennaria plantaginifolia, Chasmanthium latifolium, Danthonia spicata

Township/Range/Section Data: NE¼ NW¼ section 27, T11S, R6E, 3rd PM

PLANT POPULATION DATA

Population extent(estimate area covered): E-W 16 **ft. N-S** 26 **ft.**

(If a GPS boundary was collected the area will be calculated when you submit the shape)

Population Name (please provide a name for new eor's): Illinois Audubon Society's Lusk Creek Wilderness tract's colony of Carex oxylepis.

Distribution: Uniform ☑ **Clumped** ☐ **Random** ☐ **Total Stems(est. if >100):** >100

 # flowering _____ **# fruiting** very approximately 80 **# seedlings/juveniles:** _____

If population is not continuous, please provide an id number for each of the sub-pop'n (ideally the name & id should correspond to what you labeled the data in your GPS):

ID: _____ **Pop. Data:** _____

_____ _____

_____ _____

_____ _____

GPS DATA

Source Collected: **Point (occurrence is < 12.5 m x 12.5 m)** ☑
Line (>12.5 m long, < 12.5 m wide) ☐
Polygon (occurrence is > 12.5 m x 12.5 m) ☐

GPS Accuracy (Accuracy as displayed by the GPS must be turned in for each waypoint and track collected for this Eor): 118 feet

Carex oxylepis, Illinois Audubon Society's Lusk Creek tract

MANAGEMENT AND GENERAL COMMENTS

Confidence Extent: Entire occurrence is known ✓ **Entire occurrence is not known** ____

EoRank: ____ **Rank Comments:** ____

Is the population actively managed?: Y ☐ **N** ☑ **Description:** ____

Land Owner: Public ☐ **Private** ☑ **Both** ☐ **Name:** ____
Comments: ____

More Land: Y ☐ **N** ☑ **More Land Comments:** ____

More Protection: Y ☐ **N** ☑ **More Protection Comments:** ____

More Management: Y ☐ **N** ☑ **More Mgmt Comments:** ____

Threats: ____

Additional Comments: This is the fuzzy-fruited variety, Carex oxylepis var. pubescens.

Voucher: Y ☐ **N** ☑ **Specimen #:** ____ **Where Deposited:** ____

NEEDS
Additional Inventory Needed: **Y** ☐ **N** ☑
Comments: ____

Observers: (please provide name, affiliation, address, phone number, and email address)
John White, Ecological Services, 904 South Anderson Street, Urbana, Illinois 61801; 217-344-5041; John.Jack.White@gmail.com
Jody Shump, Illinois Department of Natural Resources, 11731 State Highway 37, Benton, Illinois 62812; 618-435-8138 ext. 127; Jody.Shump@Illinois.gov

Mail To: Natural Heritage Database, Office of Resource Conservation, Illinois Department of Natural Resources, One Natural Resources Way, Springfield, IL 62702

Plant EOR Field Data Form

Scientific Name: Carex willdenowii

New ☑ **Update** ☐ **Eo Occurrence #:** _____ **Survey Type:** On-site survey

Date: 06/10/10 **Naturally Occurring** ☑ **Introduced** ☐ **when(if known)** _____

County: Pope **Latitude:** N 37.537917° **Longitude:** W 88.537032°

INAI Site Name: _____ **Survey Site (alias):** _____

Directions: Look on the north side of the old road. A Quercus imbricaria is upslope along the road, and a Quercus alba is downslope along the road.

Habitat Description: The dry side of dry-mesic upland forest. Overstory: Quercus alba, Acer saccharum, Ulmus alata, Quercus stellata. Understory: young Quercus and Carya. Ground layer: sedges and grasses.

Township/Range/Section Data: NE¼ NW¼ sec. 27, T11S, R6E, 3rd PM

PLANT POPULATION DATA

Population extent(estimate area covered): E-W 10 **ft. N-S** 10 **ft.**
(If a GPS boundary was collected the area will be calculated when you submit the shape)

Population Name (please provide a name for new eor's): Illinois Audubon Society's Lusk Creek Wilderness tract's population of Carex willdenowii

Distribution: Uniform ☑ **Clumped** ☐ **Random** ☐ **Total Stems**(est. if >100): > 100 ?

 # flowering _____ **# fruiting** Ca. 20 + **# seedlings/juveniles:** Many ?

If population is not continuous, please provide an id number for each of the sub-pop'n (ideally the name & id should correspond to what you labeled the data in your GPS):

ID: _____ **Pop. Data:** _____

_____ _____

_____ _____

_____ _____

GPS DATA

Source Collected: **Point (occurrence is < 12.5 m x 12.5 m)** ☑
Line (>12.5 m long, < 12.5 m wide) ☐
Polygon (occurrence is > 12.5 m x 12.5 m) ☐

GPS Accuracy (Accuracy as displayed by the GPS must be turned in for each waypoint and track collected for this Eor): 87 feet

Carex willdenowii, Illinois Audubon Society's Lusk Creek Wilderness property

MANAGEMENT AND GENERAL COMMENTS

Confidence Extent: Entire occurrence is known ___ Entire occurrence is not known ✓

EoRank: _____ **Rank Comments:** _____

Is the population actively managed?: Y ☐ **N** ☑ **Description:** _____

Land Owner: Public ☐ **Private** ☑ **Both** ☐ **Name:** _____
Comments: _____

More Land: Y ☐ **N** ☑ **More Land Comments:** _____

More Protection: Y ☐ **N** ☑ **More Protection Comments:** _____

More Management: Y ☐ **N** ☑ **More Mgmt Comments:** _____

Threats: _____

Additional Comments: _____

Voucher: Y ☐ **N** ☑ **Specimen #:** _____ **Where Deposited:** _____

NEEDS

Additional Inventory Needed: Y ☐ **N** ☑

Comments: Jody Shimp and I* found a few more plants on the S side of the road (S of the main patch) and one plant a few hundred feet farther south below the bluff. The species may be more generally distributed throughout the surrounding forest

* John White

Observers: (please provide name, affiliation, address, phone number, and email address)
John White, Ecological Services, 904 South Anderson Street, Urbana, Illinois 61801; 217-344-5041; John.Jack.White@gmail.com
Jody Shimp, Illinois Department of Natural Resources 11731 State Highway 37, Benton, Illinois 62812; 618-435-8138 ext. 127; Jody.Shimp@Illinois.gov

Mail To: Natural Heritage Database, Office of Resource Conservation, Illinois Department of Natural Resources, One Natural Resources Way, Springfield, IL 62702

Plant EOR Field Data Form

Scientific Name: Cimicifuga rubifolia

New ☑ **Update** ☐ **Eo Occurrence #:** _____ **Survey Type:** On-site survey

Date: 09/17/10 **Naturally Occurring** ☑ **Introduced** ☐ **when(if known)** _____

County: Pope **Latitude:** N 37° 32.0893' **Longitude:** W 88° 32.2009'

INAI Site Name: _____ **Survey Site (alias):** _____

Directions: Walk along the base of the talus and look for the plant a few feet up the slope.

Habitat Description: Mesic upland forest. Steep E to N-facing talus. Overstory: Carya cordiformis, Ulmus americana, Quercus rubra. Understory: Lindera benzoin, Aesculus glabra, Asimina triloba. Herbaceous associates: Carex caroliniana, Adiantum pedatum, Polystichum acrostichoides, Uvularia grandiflora

Township/Range/Section Data: SE¼ NW¼ section 27, T11S, R6E, 3rd PM

PLANT POPULATION DATA

Population extent(estimate area covered): E-W 20 **ft. N-S** 10 **ft.**

(If a GPS boundary was collected the area will be calculated when you submit the shape)

Population Name (please provide a name for new eor's): Illinois Audubon Society's Lusk Creek Wilderness tract's colony of Cimicifuga rubifolia

Distribution: Uniform ☑ **Clumped** ☐ **Random** ☐ **Total Stems(est. if >100):** 21

 # flowering 9 **# fruiting** _____ **# seedlings/juveniles:** _____

If population is not continuous, please provide an id number for each of the sub-pop'n (ideally the name & id should correspond to what you labeled the data in your GPS):

ID: _____ **Pop. Data:** _____

GPS DATA

Source Collected:
- **Point (occurrence is < 12.5 m x 12.5 m)** ☑
- **Line (>12.5 m long, < 12.5 m wide)** ☐
- **Polygon (occurrence is > 12.5 m x 12.5 m)** ☐

GPS Accuracy (Accuracy as displayed by the GPS must be turned in for each waypoint and track collected for this Eor): 13 feet

Cimicifuga rubifolia, Illinois Audubon Society's Lusk Creek property

MANAGEMENT AND GENERAL COMMENTS

Confidence Extent: Entire occurrence is known ✓ **Entire occurrence is not known** ____

EoRank: ____ **Rank Comments:** ____

Is the population actively managed?: Y ☐ **N** ☑ **Description:** ____

Land Owner: Public ☐ **Private** ☑ **Both** ☐ **Name:** ____
Comments: ____

More Land: Y ☐ **N** ☑ **More Land Comments:** ____

More Protection: Y ☐ **N** ☑ **More Protection Comments:** ____

More Management: Y ☐ **N** ☑ **More Mgmt Comments:** ____

Threats: A warming climate may cause the colony to die out.

Additional Comments: None of the flowering spikes bears fruit. They all matured and died without setting seed.

Voucher: Y ☐ **N** ☑ **Specimen #:** ____ **Where Deposited:** ____

NEEDS
Additional Inventory Needed: Y ☐ **N** ☑
Comments: ____

Observers: (please provide name, affiliation, address, phone number, and email address)
John White, Ecological Services, 904 South Anderson Street, Urbana, Illinois 61801; 217-344-5041; John.Jack.White@gmail.com
John Schwegman, 3626 Riverpoint Lane, Metropolis, Illinois 62960; 618-638-4810; botany1936@yahoo.com

Mail To: Natural Heritage Database, Office of Resource Conservation, Illinois Department of Natural Resources, One Natural Resources Way, Springfield, IL 62702

Plant EOR Field Data Form

Scientific Name: Dichanthelium yadkinense

New ☑ **Update** ☐ **Eo Occurrence #:** _____ **Survey Type:** On-site survey

Date: 06 / 27 / 08 **Naturally Occurring** ☑ **Introduced** ☐ **when(if known)** _____

County: Pope **Latitude:** 37.53712° **Longitude:** W88.53751°

INAI Site Name: _____ **Survey Site (alias):** _____

Directions: Search the bank of Lusk Creek.

Habitat Description: Bank of creek, probably the margin of mesic floodplain forest

Township/Range/Section Data: NW¼ section 27, T11S, R6E, 3rd PM

PLANT POPULATION DATA

Population extent(estimate area covered): E-W _____ **ft. N-S** _____ **ft.**
(If a GPS boundary was collected the area will be calculated when you submit the shape)

Population Name (please provide a name for new eor's): Illinois Audubon Society's Lusk Creek site for Dichanthelium yadkinense

Distribution: Uniform ☐ **Clumped** ☐ **Random** ☐ **Total Stems**(est. if >100)**:** _____

 # flowering _____ **# fruiting** _____ **# seedlings/juveniles:** _____

If population is not continuous, please provide an id number for each of the sub-pop'n (ideally the name & id should correspond to what you labeled the data in your GPS):

ID: _____ **Pop. Data:** _____

_____ _____

_____ _____

_____ _____

GPS DATA

Source Collected: **Point (occurrence is < 12.5 m x 12.5 m)** ☐
Line (>12.5 m long, < 12.5 m wide) ☐
Polygon (occurrence is > 12.5 m x 12.5 m) ☐

GPS Accuracy (Accuracy as displayed by the GPS must be turned in for each waypoint and track collected for this Eor): _____

Dicanthelium yadkinense, Illinois Audubon Society's property

MANAGEMENT AND GENERAL COMMENTS

Confidence Extent: Entire occurrence is known ___ Entire occurrence is not known ___

EoRank: ___ Rank Comments: ___

Is the population actively managed?: Y ☐ N ☑ Description: ___

Land Owner: Public ☐ Private ☑ Both ☐ Name: ___
Comments: ___

More Land: Y ☐ N ☑ More Land Comments: ___

More Protection: Y ☐ N ☐ More Protection Comments: ___

More Management: Y ☐ N ☐ More Mgmt Comments: ___

Threats: ___

Additional Comments: ___

Voucher: Y ☐ N ☑ Specimen #: ___ Where Deposited: ___

NEEDS

Additional Inventory Needed: Y ☑ N ☐

Comments: Mark Basinger found the plant on June 27, 2008 and provided the information about the location. John White searched for the plant in 2010 and could not find it.

Observers: (please provide name, affiliation, address, phone number, and email address)
Mark Basinger, mbasinger@barton.edu.
Form completed by John White, Ecological Services, 904 South Anderson Street, Urbana, Illinois 61801; 217-344-5041; John.Jack.White@gmail.com

Mail To: Natural Heritage Database, Office of Resource Conservation, Illinois Department of Natural Resources, One Natural Resources Way, Springfield, IL 62702

Plant EOR Field Data Form

Scientific Name: Dodecatheon frenchii

New ☑ **Update** ☐ **Eo Occurrence #:** _____ **Survey Type:** _____

Date: 04/28/10 **Naturally Occurring** ☑ **Introduced** ☐ **when(if known)** _____

County: Pope **Latitude:** N37°32.2535' **Longitude:** W88°32.7256'

INAI Site Name: _____ **Survey Site (alias):** _____

Directions: Go to the big overhang below the old cabin site.

Habitat Description: Along the dripline and farther back on the floor of a big S-facing sandstone overhang

Township/Range/Section Data: Center of E½ NW¼ section 27, T11S, R6E, 3rd PM

PLANT POPULATION DATA

Population extent(estimate area covered): E-W 200+ **ft. N-S** 10 **ft.**
(If a GPS boundary was collected the area will be calculated when you submit the shape)

Population Name (please provide a name for new eor's): Illinois Audubon Society's Lusk Creek Wilderness property's colony of Dodecatheon frenchii

Distribution: Uniform ☑ **Clumped** ☐ **Random** ☐ **Total Stems**(est. if >100): Thousands

 # flowering Many hundreds **# fruiting** Many hundreds (observed later in the season) **# seedlings/juveniles:** Many

If population is not continuous, please provide an id number for each of the sub-pop'n (ideally the name & id should correspond to what you labeled the data in your GPS):

ID: _____ **Pop. Data:** _____

_____ _____

_____ _____

_____ _____

GPS DATA

Source Collected:
- **Point (occurrence is < 12.5 m x 12.5 m)** ☑
- **Line (>12.5 m long, < 12.5 m wide)** ☐
- **Polygon (occurrence is > 12.5 m x 12.5 m)** ☐

The GPS location (above) is a point at the center of the population

GPS Accuracy (Accuracy as displayed by the GPS must be turned in for each waypoint and track collected for this Eor): 23

Dodecatheon frenchii, Illinois Audubon's Lusk Creek tract

MANAGEMENT AND GENERAL COMMENTS

Confidence Extent: Entire occurrence is known ✓ **Entire occurrence is not known** ____

EoRank: A **Rank Comments:** A big, thriving colony.

Is the population actively managed?: Y ☐ **N** ☑ **Description:** ____

Land Owner: Public ☐ **Private** ☑ **Both** ☐ **Name:** ____
Comments: ____

More Land: Y ☐ **N** ☑ **More Land Comments:** ____

More Protection: Y ☐ **N** ☑ **More Protection Comments:** ____

More Management: Y ☐ **N** ☑ **More Mgmt Comments:** ____

Threats: Trampling is always a concern for this species, but it appears to be secure here under current management.

Additional Comments: ____

Voucher: Y ☐ **N** ☑ **Specimen #:** ____ **Where Deposited:** ____

NEEDS
Additional Inventory Needed: **Y** ☐ **N** ☑
Comments: ____

Observers: (please provide name, affiliation, address, phone number, and email address)
John White, Ecological Services, 904 South Anderson Street, Urbana, Illinois 61801; 217-344-5041; John.Jack.White@gmail.com

Mail To: **Natural Heritage Database, Office of Resource Conservation, Illinois Department of Natural Resources, One Natural Resources Way, Springfield, IL 62702**

Plant EOR Field Data Form

Scientific Name: Matelea obliqua

New ☑ **Update** ☐ **Eo Occurrence #:** _____ **Survey Type:** On-site survey

Date: 06/27/10 **Naturally Occurring** ☑ **Introduced** ☐ **when(if known)** _____

County: Pope **Latitude:** N37°32.1507' **Longitude:** W88°32.0204'

INAI Site Name: _____ **Survey Site (alias):** _____

Directions: Find the faint, discontinuous remnants of a barbed wire fence running N-S along the property line near the top of the steepest part of the lower slope of the hill. Look about 7 feet W of the fence.

Habitat Description:
Dry-mesic upland forest with Quercus rubra, Q. alba, Acer saccharum, Ostrya virginiana, Polystichum acrostichoides, Dichanthelium boscii.

Township/Range/Section Data:
E½ NE¼ SE¼ NW¼ section 27, T11S, R6E, 3rd PM

PLANT POPULATION DATA

Population extent(estimate area covered): E-W 1 **ft. N-S** 1 **ft.**
(If a GPS boundary was collected the area will be calculated when you submit the shape)

Population Name (please provide a name for new eor's): Illinois Audubon Society's Lusk Creek Wilderness property's eastern population of Matelea obliqua

Distribution: Uniform ☑ **Clumped** ☐ **Random** ☐ **Total Stems**(est. if >100): 1

 # flowering _____ **# fruiting** _____ **# seedlings/juveniles:** _____

If population is not continuous, please provide an id number for each of the sub-pop'n (ideally the name & id should correspond to what you labeled the data in your GPS):

ID: _____ **Pop. Data:** _____

_____ _____

_____ _____

_____ _____

GPS DATA

Source Collected:
- **Point (occurrence is < 12.5 m x 12.5 m)** ☑
- **Line (>12.5 m long, < 12.5 m wide)** ☐
- **Polygon (occurrence is > 12.5 m x 12.5 m)** ☐

GPS Accuracy (Accuracy as displayed by the GPS must be turned in for each waypoint and track collected for this Eor): 18 feet

Matelea obliqua, Illinois Audubon Society's Lusk Creek property - East

MANAGEMENT AND GENERAL COMMENTS

Confidence Extent: Entire occurrence is known ✓ **Entire occurrence is not known** ____

EoRank: ____ **Rank Comments:** ____

Is the population actively managed?: Y ☐ **N** ☑ **Description:** ____

Land Owner: Public ☐ **Private** ☑ **Both** ☐ **Name:** ____
Comments: ____

More Land: Y ☐ **N** ☑ **More Land Comments:** ____

More Protection: Y ☐ **N** ☑ **More Protection Comments:** ____

More Management: Y ☑ **N** ☐ **More Mgmt Comments:** The plant is barely hanging on. It might thrive if the tree canopy is opened up.

Threats: Overshading by the forest overstory.

Additional Comments: I found only one small plant in unremarkable habitat. I would not expect to find this species here.

Voucher: Y ☐ **N** ☑ **Specimen #:** ____ **Where Deposited:** ____

NEEDS
Additional Inventory Needed: Y ☐ **N** ☑
Comments: ____

Observers: (please provide name, affiliation, address, phone number, and email address)
John White, Ecological Services, 904 S. Anderson St., Urbana, IL 61801
217-344-5041 John.Jack.White@gmail.com

Mail To: Natural Heritage Database, Office of Resource Conservation, Illinois Department of Natural Resources, One Natural Resources Way, Springfield, IL 62702

Plant EOR Field Data Form

Scientific Name: Matelea obliqua

New ☑ **Update** ☐ **Eo Occurrence #:** _____ **Survey Type:** _____

Date: 06/24/10 **Naturally Occurring** ☑ **Introduced** ☐ **when(if known)** _____

County: Pope **Latitude:** N37°32.2978' **Longitude:** W88°32.1941'

INAI Site Name: _____ **Survey Site (alias):** _____

Directions: Look among a small patch of trees and shrubs and vines in the middle of the patch of glade on the N side of the old road.

Habitat Description: Sandstone glade

Township/Range/Section Data: W½ NE¼ NW¼ section 27, T11S, R6E, 3rd P/M

PLANT POPULATION DATA

Population extent(estimate area covered): E-W 5 **ft. N-S** 8 **ft.**
(If a GPS boundary was collected the area will be calculated when you submit the shape)

Population Name (please provide a name for new eor's): Illinois Audubon Society's Lusk Creek Wilderness property's western population of Matelea obliqua

Distribution: Uniform ☑ **Clumped** ☐ **Random** ☐ **Total Stems**(est. if >100): 1

 # flowering 1 **# fruiting** _____ **# seedlings/juveniles:** _____
It appears to be one branching vine. I found three pedicels without fruit.

If population is not continuous, please provide an id number for each of the sub-pop'n (ideally the name & id should correspond to what you labeled the data in your GPS):

ID: _____ **Pop. Data:** _____

GPS DATA

Source Collected: **Point (occurrence is < 12.5 m x 12.5 m)** ☑
Line (>12.5 m long, < 12.5 m wide) ☐
Polygon (occurrence is > 12.5 m x 12.5 m) ☐

GPS Accuracy (Accuracy as displayed by the GPS must be turned in for each waypoint and track collected for this Eor): 14 feet

Matelea obliqua, Illinois Audubon Society's Lusk Creek property – west

MANAGEMENT AND GENERAL COMMENTS

Confidence Extent: Entire occurrence is known ✓ **Entire occurrence is not known** ____

EoRank: ____ **Rank Comments:** ____

Is the population actively managed?: Y ☐ **N** ☑ **Description:** ____

Land Owner: Public ☐ **Private** ☑ **Both** ☐ **Name:** ____
Comments: ____

More Land: Y ☐ **N** ☑ **More Land Comments:** ____

More Protection: Y ☐ **N** ☑ **More Protection Comments:** ____

More Management: Y ☐ **N** ☑ **More Mgmt Comments:** ____

Threats: ____

Additional Comments: ____

Voucher: Y ☐ **N** ☑ **Specimen #:** ____ **Where Deposited:** ____

NEEDS
Additional Inventory Needed: Y ☐ **N** ☑
Comments: ____

Observers: (please provide name, affiliation, address, phone number, and email address)
John White, Ecological Services, 904 S. Anderson Street, Urbana, IL 61801
217-344-5041 John.Jack.White@gmail.com

Mail To: Natural Heritage Database, Office of Resource Conservation, Illinois Department of Natural Resources, One Natural Resources Way, Springfield, IL 62702