

**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

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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* (2002b).

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 overall 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	N a t	A b n	V M C	J W	M B	B H	M F F	M U F	D M F	D F G	S F	C O	C r	Notes
<i>Abutilon theophrastii</i>	Velvet-leaf	E	1	0	X									X	
<i>Acalypha gracilens</i> var. <i>gracilens</i>	Slender three-seeded Mercury	N	2	0	X	X	X	X				X	X		
<i>Acalypha rhomboidea</i>	Rhombic three-seeded Mercury	N	1	0	X		X							X	
<i>Acalypha virginica</i>	Virginia three-seeded Mercury	N	3	0	X	X		X	X	X	X	X			
<i>Acer negundo</i> var. <i>negundo</i>	Box elder	N	L3	0	X	X	X	X	X	X		X			
<i>Acer rubrum</i> var. <i>rubrum</i>	Red maple	N	3	0	X	X	X	X	X	X	X	X			
<i>Acer rubrum</i> var. <i>trilobum</i>	Three-lobed red maple	N	L2	0	X			X							
<i>Acer saccharum</i> var. <i>saccharum</i>	Sugar maple	N	L5	0	X	X	X	X	X	X	X				
<i>Achillea millefolium</i> var. <i>millefolium</i>	Yarrow, milfoil	E	2	0	X	X	X				X	X			
<i>Actaea pachypoda</i> (<i>Actaea alba</i>)	Doll's eyes, white baneberry	N	L2	0	X		X		X						
<i>Adiantum pedatum</i>	Maidenhair fern	N	2	0	X		X		X						
<i>Aesculus glabra</i> var. <i>glabra</i>	Ohio buckeye	N	3	0	X	X	X	X	X	X	X				
<i>Agalinis fasciculata</i> (<i>Gerardia fasciculata</i>)	Tufted false foxglove	N	L2	0	X		X				X	X			
<i>Agalinis tenuifolia</i> (<i>Gerardia tenuifolia</i>)	Narrow-leaved false foxglove	N	L2	0	X		X				X	X			
<i>Agastache nepetoides</i>	Yellow giant hyssop	N	2	0	X	X		X	X	X	X	X			
<i>Agave virginica</i> See: <i>Manfreda virginica</i>															
<i>Ageratina altissima</i> (<i>Eupatorium rugosum</i>)	White snakeroot	N	3	0	X	X	X	X	X	X	X	X			
<i>Agrimonia parviflora</i>	Swamp agrimony	N	2	0	X		X	X				X			
<i>Agrimonia rostellata</i>	Woodland agrimony, beaked agrimony	N	2	0	X	X	X	X	X	X					
<i>Agrostis eliottiana</i>	Awned bent grass	N	-	0		X	X				X				
<i>Agrostis gigantea</i> (<i>Agrostis alba</i> var. <i>alba</i>)	Redtop	E	3	0	X	X	X					X		X	Mohlenbrock (2002a, 2002b) 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.
<i>Agrostis hyemalis</i>	Tickle grass	N	L2	0	X	X	X					X			
<i>Agrostis perennans</i>	Upland bent grass	N	3	0	X	X		X	X	X	X				
<i>Alisma subcordatum</i> (<i>Alisma plantago-aquatica</i> var. <i>parvifolium</i>)	Small-flowered water plantain	N	L3	0	X	X	X							X	
<i>Allium canadense</i> var. <i>canadense</i>	Wild onion	N	2	0	X	X	X	X	X	X	X	X			
<i>Allium vineale</i>	Field garlic	E	2	0	X	X					X	X			
<i>Alnus serrulata</i>	Smooth alder	N	1	0	X		X							X	I found a single small plant (two stems about 3 feet tall) on a gravel bar.
<i>Ambrosia artemisiifolia</i>	Common ragweed	N	3	0	X	X	X	X	X	X	X	X			
<i>Ambrosia bidentata</i>	Lance-leaved ragweed, toothed ragweed	N	L5	0	X	X	X	X			X	X			
<i>Ambrosia trifida</i> var. <i>trifida</i>	Giant ragweed	N	2	0	X	X	X	X			X	X			
<i>Amelanchier arborea</i>	Shadbush, serviceberry	N	2	0	X	X	X	X	X	X	X	X	X		
<i>Ampelamus albidus</i> (<i>Cynanchum laeve</i>)	Bluevine	N	1	0	X		X	X				X			

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

Scientific name	Common name	N	A	V	J	M	B	M	M	D	D	S	C	C	Notes
		a	b	M	W	B	H	F	U	M	F	F	O	r	
		t	n	C				F	F	F	G				
<i>Aster patens</i>	Spreading aster	N	1	0	X		X				X				
<i>Aster pilosus</i>	Frost aster, hairy aster	N	L3	0	X	X	X	X			X	X			
<i>Aster praealtus</i> var. <i>praealtus</i>	Willow aster	N	L2	0	X		X					X			
<i>Aster sagittifolius</i>	Arrow-leaved aster	N	3	0	X			X	X	X	X	X			
<i>Aster shortii</i>	Short's aster	N	L3	0	X	X	X	X							
<i>Aster turbinellus</i>	Top-shaped aster	N	1	0	X		X				X				
<i>Athyrium filix-femina</i>	Lady fern	N	L2		X		X	X							
<i>Athyrium pycnocarpon</i> See: <i>Diplazium pycnocarpon</i>															
<i>Athyrium thelypteroides</i> See: <i>Deparia acrostichoides</i>															
<i>Aureolaria flava</i> var. <i>micrantha</i>	Yellow false foxglove	N	1	0	X		X				X				
<i>Barbarea vulgaris</i> var. <i>arcuata</i>	Yellow rocket, bitter winter cress	E	2	0	X	X	X	X	X		X	X			
<i>Betula nigra</i>	River birch	N	L3	0	X	X	X	X							X
<i>Bidens aristosa</i> var. <i>aristosa</i>	Swamp marigold, beggar's ticks, tickseed sunflower	N		0	X	X	X								
<i>Bidens aristosa</i> var. <i>fritcheyi</i>	Swamp marigold, beggar's ticks, tickseed sunflower	N	L4	0	X			X	X	X	X	X			X
<i>Bidens bipinnata</i>	Spanish needles	N	L3	0	X	X	X	X	X	X	X	X			
<i>Bidens frondosa</i>	Common beggar's ticks, sticktight, devil's bootjack	N	2	0	X										X
<i>Bidens polylepis</i>	Bur marigold, coreopsis beggar's ticks	N	1	0	X							X			X
<i>Blephilia ciliata</i>	Downy wood mint, pagoda plant	N	2	0	X	X	X	X	X	X	X				
<i>Blephilia hirsuta</i>	Hairy wood mint, pagoda plant	N	2	0	X	X	X	X	X	X		X			
<i>Boehmeria cylindrica</i> var. <i>cylindrica</i>	False nettle	N	L3	0	X	X	X	X	X	X		X			X
<i>Botrychium obliquum</i> var. <i>obliquum</i>	Grape fern	N	L2	0	X		X	X	X						
<i>Botrychium virginianum</i>	Rattlesnake fern	N	2	0	X	X	X		X	X					
<i>Bouteloua curtipendula</i>	Side-oats grama	N	L3	0	X						X	X			
<i>Brachyelytrum erectum</i>	False brome, long-awned wood grass	N	3	0	X	X	X	X	X	X					
<i>Bromus commutatus</i>	Hairy chess	E	2	0	X	X					X	X			
<i>Bromus inermis</i>	Smooth brome	E	L2	0	X		X				X	X			
<i>Bromus pubescens</i>	Canada brome, woodland brome	N	3	0	X	X	X	X	X	X	X	X			
<i>Cacalia atriplicifolia</i> See: <i>Arnoglossum atriplicifolium</i>															
<i>Callitriche terrestris</i>	Terrestrial starwort	N	-	0		X									X
<i>Campanulastrum americanum</i> var. <i>americanum</i> (<i>Campanula americana</i>)	American bellflower	N	L3	0	X	X	X	X	X	X					
<i>Campsis radicans</i>	Trumpet creeper	N	3	0	X	X	X	X	X	X	X	X			
<i>Carex abdita</i>	Hidden oak sedge	N	-	0		X	X				X				
<i>Carex albicans</i> (<i>Carex artitecta</i>)	Blunt-scaled oak sedge	N	2	0	X	X	X		X	X	X	X			
<i>Carex albusina</i>	Blunt-scaled wood sedge, white bear sedge	N	2	0	X		X		X						

Scientific name	Common name	N	A	V	J	M	B	M	M	D	D	S	C	C	Notes
		a	b	M	W	B	H	F	U	M	F	F	O	r	
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	N	A	V	J	M	B	M	M	D	D	S	C	C	Notes
		t	n	C	W	B	H	F	U	M	F	F	O	r	
<i>Carya tomentosa</i>	Mockernut hickory	N	L3	0	X		X		X	X	X				
<i>Caulophyllum thalictroides</i>	Blue cohosh	N	1	0	X		X		X						
<i>Cassia fasciculata</i> See: <i>Chamaecrista fasciculata</i>															
<i>Cassia marilandica</i> See: <i>Senna marilandica</i>															
<i>Cassia nictitans</i> See: <i>Chamaecrista nictitans</i>															
<i>Celtis laevigata</i> var. <i>laevigata</i>	Sugarberry	N	2	0	X	X		X	X	X	X				
<i>Celtis occidentalis</i> var. <i>canina</i>	Hackberry	N	2	0	X			X	X	X	X				
<i>Celtis occidentalis</i> var. <i>occidentalis</i>	Hackberry	N		0	X	X	X								
<i>Celtis tenuifolia</i> var. <i>tenuifolia</i>	Dwarf hackberry	N	2	0	X	X				X	X				
<i>Centunculus minimus</i> See: <i>Anagallis minima</i>															
<i>Cephalanthus occidentalis</i> var. <i>occidentalis</i>	Buttonbush	N	1	0	X	X	X							X	
<i>Cerastium arvense</i> var. <i>villosum</i>	Field mouse-eared chickweed	N	2	0	X	X	X	X	X			X			
<i>Cerastium fontanum</i> (<i>Cerastium vulgatum</i>)	Common mouse-eared chickweed	E	2	0	X	X					X	X			
<i>Cercis canadensis</i>	Redbud	N	2	0	X	X	X	X	X	X	X				
<i>Chaerophyllum procumbens</i> var. <i>procumbens</i>	Wild chervil	N	3	0	X			X	X	X					
<i>Chamaecrista fasciculata</i> var. <i>fasciculata</i> (<i>Cassia fasciculata</i>)	Partridge pea	N	L3	0	X	X	X				X	X			
<i>Chamaecrista nictitans</i> (<i>Cassia nictitans</i>)	Small partridge pea, sensitive pea	N	L2	0	X		X					X			
<i>Chamaesyce humistrata</i> (<i>Euphorbia humistrata</i>)	Spreading spurge	N	1	0	X									X	
<i>Chamaesyce maculata</i> (<i>Chamaesyce supina</i> , <i>Euphorbia maculata</i> , <i>Euphorbia supina</i>)	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 <i>Chamaesyce nutans</i> , which has also been named <i>Euphorbia maculata</i> .
<i>Chasmanthium latifolium</i> (<i>Uniola latifolia</i>)	Inland oats	N	L5	0	X	X	X	X	X	X	X	X			
<i>Cheilanthes lanosa</i>	Hairy lip fern	N	L2	0	X	X	X				X				
<i>Chenopodium album</i>	Lamb's quarters	E	-	0		X								X	
<i>Chenopodium ambrosioides</i>	Mexican tea	E	L2	0	X	X								X	
<i>Chrysanthemum leucanthemum</i> See: <i>Leucanthemum vulgare</i>															
<i>Cicuta maculata</i>	Water hemlock	N	2	0	X	X	X	X				X			
<i>Cimicifuga rubifolia</i>	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.
<i>Cinna arundinacea</i>	Wood reed grass, stout wood reed	N	L3	0	X	X	X	X	X			X			
<i>Circaea lutetiana</i> ssp. <i>canadensis</i>	Enchanter's nightshade	N	L3	0	X	X	X	X	X	X					
<i>Cirsium altissimum</i>	Tall thistle	N	2	0	X	X	X		X	X		X			
<i>Cirsium discolor</i>	Field thistle, pasture thistle	N	2	0	X	X	X					X			
<i>Claytonia virginica</i>	Spring beauty	N	3	0	X		X		X	X					

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		a	b	M	W	B	H	F	U	M	F	F	O	r	
		t	n	C				F	F	F	G				
<i>Clematis virginiana</i>	Virgin's bower	N	2	0	X	X	X	X	X			X			
<i>Commelina communis</i>	Common day flower	E	L3	0	X	X	X	X						X	
<i>Conoclinium coelestinum</i> (<i>Eupatorium coelestinum</i>)	Mist flower	N	3	0	X			X	X	X	X	X		X	
<i>Coryza canadensis</i> (<i>Erigeron canadensis</i>)	Horseweed, mare's tail	N	2	0	X	X	X	X	X	X	X	X			
<i>Coreopsis pubescens</i>	Tickseed	N	L2	0	X		X							X	
<i>Coreopsis tripteris</i> var. <i>tripteris</i>	Tall coreopsis, tall tickseed	N	2	0	X	X	X	X	X	X	X	X			
<i>Cornus florida</i>	Flowering dogwood	N	4	0	X	X	X	X	X	X	X	X			
<i>Cornus obliqua</i>	Pale dogwood	N	1	0	X		X							X	
<i>Corydalis flavula</i>	Pale corydalis	N	L3	0	X		X		X	X					
<i>Corylus americana</i>	American hazel	N	1	0	X		X		X						
<i>Crataegus pruinosa</i> (<i>Crataegus mackenzii</i> , <i>Crataegus rugosa</i>)	Frosted hawthorn	N	2	0	X		X		X	X	X				
<i>Crotalaria sagittalis</i>	Rattlebox	N	-	0		X						X			
<i>Croton capitatus</i>	Woolly croton, hogwort	N	1	0	X	X	X				X				
<i>Crotonopsis elliptica</i>	Elliptical rushfoil	N	L3	0	X	X	X	X			X	X			
<i>Cryptotaenia canadensis</i>	Honewort	N	2	0	X	X	X	X	X	X					
<i>Cunila origanoides</i>	Dittany	N	L3	0	X		X		X	X	X				
<i>Cuscuta cuspidata</i>	Cusp dodder	N	1	0	X		X					X			
<i>Cuscuta gronovii</i> var. <i>gronovii</i>	Common dodder	N	2	0	X			X	X			X			
<i>Cynanchum laeve</i> See: <i>Ampelamus albidus</i>															
<i>Cyperus densicaespitosus</i> See: <i>Kyllinga pumila</i>															
<i>Cyperus echinatus</i> (<i>Cyperus ovularis</i>)	Round-headed flatsedge, globe nut sedge	N	2	0	X	X	X			X		X		X	
<i>Cyperus erythrorhizos</i>	Red-rooted flatsedge	N	1	0	X									X	
<i>Cyperus strigosus</i>	Straw-colored flatsedge	N	L3	0	X							X		X	
<i>Cystopteris protrusa</i> (<i>Cystopteris fragilis</i> var. <i>protrusa</i>)	Fragile fern	N	3	0	X	X	X	X	X	X	X				
<i>Dactylis glomerata</i>	Orchard grass	E	2	0	X	X	X					X			
<i>Danthonia spicata</i>	Curly grass, poverty oat grass	N	L3	0	X	X	X		X	X	X	X			
<i>Datura stramonium</i>	Jimson weed	E	1	0	X		X							X	
<i>Daucus carota</i>	Wild carrot, Queen Anne's lace	E	L3	0	X	X	X					X			
<i>Delphinium tricorne</i>	Dwarf larkspur	N	L2	0	X		X		X						
<i>Dentaria laciniata</i>	Toothwort	N	3	0	X		X		X	X					
<i>Deparia acrostichoides</i> (<i>Athyrium thelypteroides</i>)	Silvery spleenwort	N	1	0	X		X		X						
<i>Desmodium canadense</i>	Showy tick trefoil	N	2	0	X						X	X			
<i>Desmodium canescens</i>	Hoary tick trefoil	N	2	0	X	X						X			
<i>Desmodium ciliare</i>	Hairy small-leaved tick trefoil	N	2	0	X	X	X					X			
<i>Desmodium glabellum</i>	Smooth tick trefoil	N	1	0	X	X	X					X			
<i>Desmodium laevigatum</i>	Glaucous tick trefoil	N	1	0	X					X		X			
<i>Desmodium marilandicum</i>	Smooth small-leaved tick trefoil	N	2	0	X		X					X			

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		a	b	M	W	B	H		F	U	M	F	F	O	r	
		t	n	C					F	F	F	G				
<i>Desmodium nudiflorum</i>	Bare-stemmed tick trefoil	N	1	0	X		X			X						
<i>Desmodium paniculatum</i>	Panicled tick trefoil	N	3	0	X	X	X		X	X	X	X	X			
<i>Desmodium rotundifolium</i>	Round-leaved tick trefoil	N	1	0	X		X			X						
<i>Dianthera americana</i> See: <i>Justicia americana</i>																
<i>Dianthus armeria</i>	Deptford pink	E	2	0	X	X	X					X	X			
<i>Diarrhena obovata</i> (<i>Diarrhena americana</i>)	Beak grass	N	L5	0	X	X	X		X	X	X	X				
<i>Dicentra cucullaria</i>	Dutchman's breeches	N	2	0	X		X			X						
<i>Dichantherium acuminatum</i> var. <i>fasciculatum</i> (<i>Panicum lanuginosum</i> var. <i>fasciculatum</i> , <i>Panicum tennesseense</i>)	Old-field panic grass	N	3	0	X	X	X					X	X			
<i>Dichantherium boscii</i> var. <i>boscii</i>	Large-fruited panic grass	N	2	0	X	X	X		X	X	X	X	X			
<i>Dichantherium clandestinum</i> (<i>Panicum clandestinum</i>)	Deer-tongue grass	N	L5	0	X	X			X	X	X	X	X			Deer-tongue grass strongly dominates large parts of the bottomland fields.
<i>Dichantherium commutatum</i> var. <i>commutatum</i> (<i>Panicum commutatum</i> var. <i>commutatum</i>)	Broad-leaved panic grass	N	L3	0	X	X					X	X	X			
<i>Dichantherium depauperatum</i> (<i>Panicum depauperatum</i>)	Starved panic grass	N	L2	0	X							X				
<i>Dichantherium dichotomum</i> (<i>Panicum barbulatum</i> , <i>Panicum dichotomum</i>)	Forked panic grass	N	-	0		X	X					X				
<i>Dichantherium laxiflorum</i> (<i>Panicum laxiflorum</i> , <i>Panicum xalapense</i>)	Loose-flowered panic grass	N	L2	0	X	X	X					X	X			
<i>Dichantherium malacophyllum</i> (<i>Panicum malacophyllum</i>)	Soft-leaved panic grass	N	1	0	X	X	X					X				
<i>Dichantherium microcarpon</i> (<i>Panicum microcarpon</i>)	Small-fruited panic grass	N	3	0	X	X	X		X	X			X			
<i>Dichantherium polyanthes</i> (<i>Panicum polyanthes</i>)	Round-fruited panic grass	N	3	0	X	X	X		X		X		X			
<i>Dichantherium scoparium</i> (<i>Panicum scoparium</i>)	Broom panic grass	N	L2	0	X	X	X						X			
<i>Dichantherium yadkinense</i> (<i>Panicum yadkinense</i>)	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.
<i>Digitaria ischaemum</i>	Smooth crabgrass	E	L3	0	X		X									X
<i>Digitaria sanguinalis</i>	Hairy crabgrass, common crabgrass	E	-	0		X	X									X
<i>Diodia teres</i> var. <i>teres</i>	Rough buttonweed	N	L3	0	X	X	X					X	X			
<i>Dioscorea oppositifolia</i> (<i>Dioscorea batatas</i> , <i>Dioscorea polystachya</i>)	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.
<i>Dioscorea quaternata</i> var. <i>quaternata</i>	Wild yam	N	3	0	X		X		X	X	X	X				
<i>Dioscorea villosa</i>	Wild yam	N	L2	0	X		X			X						
<i>Diospyros virginiana</i> var. <i>pubescens</i>	Persimmon	N		0	X											
<i>Diospyros virginiana</i> var. <i>virginiana</i>	Persimmon	N	3	0	X	X	X		X	X	X	X	X			

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		a	b	M	W	B	H	F	U	M	F	F	O	r	
		t	n	C				F	F	F	G				
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 engelmannii, 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	N	A	V	J	M	B	M	M	D	D	S	C	C	Notes
		t	n	C	W	B	H	F	U	M	F	F	O	r	
<i>Euonymus atropurpureus</i>	Wahoo, burning bush	N	2	0	X	X	X	X	X	X	X				
<i>Eupatoriadelphus fistulosus</i> (<i>Eupatorium fistulosum</i>)	Hollow Joe Pye weed, trumpet weed	N	L3	0	X	X	X	X						X	
<i>Eupatorium coelestinum</i> See: <i>Conoclinium coelestinum</i>															
<i>Eupatorium perfoliatum</i>	Common boneset, perfoliate boneset	N	2	0	X	X	X				X	X		X	
<i>Eupatorium rugosum</i> See: <i>Ageratina altissima</i>															
<i>Eupatorium serotinum</i>	Late boneset	N	L3	0	X	X	X	X	X	X	X	X			
<i>Euphorbia corollata</i> var. <i>corollata</i>	Flowering spurge	N	2	0	X	X	X				X	X			
<i>Euphorbia humistrata</i> See: <i>Chamaesyce humistrata</i>															
<i>Euphorbia maculata</i> See: <i>Chamaesyce maculata</i>															
<i>Euphorbia supina</i> See: <i>Chamaesyce maculata</i>															
<i>Euthamia graminifolia</i> var. <i>nuttallii</i> (<i>Solidago graminifolia</i> var. <i>nuttallii</i>)	Grass-leaved goldenrod	N	L4	0	X	X						X			
<i>Fagus grandifolia</i> var. <i>caroliniana</i>	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.
<i>Fallopia cristata</i> (<i>Polygonum scandens</i> var. <i>cristata</i>)	Crested bindweed	N	3	0	X		X	X				X			
<i>Fallopia scandens</i> (<i>Polygonum scandens</i> var. <i>scandens</i>)	Climbing buckwheat	N	2	0	X		X					X			
<i>Festuca arundinacea</i> (<i>Festuca elatior</i> var. <i>arundinacea</i>)	Tall fescue	E	L5	0	X	X	X				X	X			
<i>Festuca octoflora</i> var. <i>octoflora</i> See: <i>Vulpia octoflora</i> var. <i>octoflora</i>															
<i>Festuca subverticillata</i> (<i>Festuca obtusa</i>)	Nodding fescue	N	2	0	X	X			X			X			
<i>Fimbristylis autumnalis</i>	Autumn fimbry	N	1	0	X		X							X	
<i>Frangula caroliniana</i> (<i>Rhamnus caroliniana</i>)	Carolina buckthorn	N	1	0	X		X		X	X		X			
<i>Frasera caroliniensis</i> (<i>Swertia caroliniensis</i>)	American columbo	N	1	0	X		X			X					
<i>Fraxinus americana</i> var. <i>americana</i>	White ash	N	4	0	X	X	X	X	X	X	X				
<i>Fraxinus pennsylvanica</i>	Red ash	N	1	0	X		X		X						
<i>Galium aparine</i> var. <i>aparine</i>	Cleavers, goose grass, annual bedstraw	N	3	0	X	X	X	X	X	X	X	X			
<i>Galium circaeazans</i> var. <i>hypomalacum</i>	Hairy wild licorice	N	3	0	X	X	X		X	X	X				
<i>Galium concinnum</i>	Shining bedstraw	N	2	0	X	X	X		X	X	X				
<i>Galium obtusum</i>	Wild madder	N	1	0	X		X					X			
<i>Galium pilosum</i>	Hairy bedstraw, wild madder	N	2	0	X	X	X				X	X			
<i>Galium triflorum</i>	Sweet-scented bedstraw	N	-	0		X		X	X						
<i>Gamochaeta purpurea</i> (<i>Gnaphalium purpureum</i>)	Early cudweed, purplish cudweed	N	2	0	X	X					X	X			
<i>Geranium carolinianum</i>	Carolina cranesbill	N	2	0	X	X	X				X	X			
<i>Geranium maculatum</i>	Wild geranium	N	L3	0	X	X	X		X						

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

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

Scientific name	Common name	N	A	V	J	M	B	H	M	M	D	D	S	C	C	Notes
		a	b	M	W	B	H		F	U	M	F	F	O	r	
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	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		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	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	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	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			

Scientific name	Common name	N a t	A b n	V M C	J W	M B	B H	M F F	M U F	D M F	D F G	S F	C O	C r	Notes
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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		a	b	M	W	B	H	F	U	M	F	F	O	r	
		t	n	C				F	F	F	G				
<i>Poa pratensis</i>	Kentucky bluegrass	E	3	0	X	X	X	X	X	X	X	X			
<i>Poa sylvestris</i>	Woodland bluegrass	N	3	0	X	X	X	X	X	X	X				
<i>Podophyllum peltatum</i>	Mayapple	N	2	0	X	X	X		X	X					
<i>Polemonium reptans</i>	Jacob's ladder	N	2	0	X		X	X	X						
<i>Pollanthes virginica</i> See: <i>Manfreda virginica</i>															
<i>Polygala sanguinea</i>	Field milkwort	N	L2	0	X	X	X					X			
<i>Polygonatum biflorum</i>	Small Solomon's seal	N	3	0	X	X	X	X	X	X					
<i>Polygonatum commutatum</i>	Solomon's seal	N	1	0	X			X							
<i>Polygonum arenastrum</i> (<i>Polygonum aviculare</i>)	Sidewalk knotweed	E	-	0		X								X	
<i>Polygonum cespitosum</i> var. <i>longisetum</i> See: <i>Persicaria cespitosa</i>															
<i>Polygonum pennsylvanicum</i> var. <i>pennsylvanicum</i> See: <i>Persicaria pennsylvanica</i> var. <i>pennsylvanica</i>															
<i>Polygonum persicaria</i> See: <i>Persicaria vulgaris</i>															
<i>Polygonum punctatum</i> See: <i>Persicaria punctata</i>															
<i>Polygonum sagittatum</i> See: <i>Tracaulon sagittatum</i>															
<i>Polygonum scandens</i> var. <i>cristata</i> See: <i>Fallopia cristata</i>															
<i>Polygonum scandens</i> var. <i>scandens</i> See: <i>Fallopia scandens</i>															
<i>Polygonum tenue</i>	Slender knotweed	N	-	0		X	X				X				
<i>Polygonum virginianum</i> See: <i>Antenoron virginianum</i>															
<i>Polypodium virginianum</i>	Common polypody	N	1	0	X		X						X		
<i>Polystichum acrostichoides</i>	Christmas fern	N	3	0	X	X	X	X	X	X	X				
<i>Populus deltoides</i>	Eastern cottonwood	N	1	0	X		X							X	
<i>Porteranthus stipulatus</i> (<i>Gillenia stipulata</i>)	Indian physic	N	2	0	X		X			X	X				
<i>Potentilla simplex</i> var. <i>simplex</i>	Common cinquefoil, old-field cinquefoil	N	2	0	X	X	X	X	X	X	X	X			
<i>Prenanthes altissima</i>	Tall white lettuce	N	2	0	X		X		X	X			X		
<i>Prenanthes aspera</i>	Rough white lettuce	N	L2	0	X							X			
<i>Prenanthes crepidinea</i>	Great white lettuce	N	1	0	X			X							
<i>Prunella vulgaris</i> var. <i>elongata</i>	Self-heal, heal-all	N	2	0	X	X	X	X	X	X	X				
<i>Prunella vulgaris</i> var. <i>vulgaris</i>	Self-heal, heal-all	E	2	0	X			X	X	X	X				
<i>Prunus americana</i> (<i>Prunus lanata</i>)	Wild plum	N	1	0	X		X		X	X					
<i>Prunus serotina</i>	Wild black cherry	N	3	0	X	X	X	X	X	X	X				
<i>Pseudognaphalium obtusifolium</i> (<i>Gnaphalium obtusifolium</i>)	Sweet everlasting, old-field balsam	N	2	0	X		X		X	X		X			
<i>Pycnanthemum pycnanthemoides</i>	Mountain mint	N	1	0	X			X				X			
<i>Pycnanthemum tenuifolium</i> (<i>Pycnanthemum flexuosum</i>)	Slender mountain mint	N	2	0	X	X	X	X	X	X	X				

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		a	b	M	W	B	H	F	U	M	F	F	O	r	
		t	n	C				F	F	F	G				
<i>Quercus alba</i>	White oak	N	4	0	X	X	X	X	X	X	X				
<i>Quercus coccinea</i>	Scarlet oak	N	L2	0	X	X	X			X	X				
<i>Quercus imbricaria</i>	Shingle oak	N	3	0	X	X	X		X	X	X				
<i>Quercus marilandica</i>	Blackjack oak	N	1	0	X	X	X				X				
<i>Quercus muhlenbergii</i>	Chinquapin oak, yellow chestnut oak	N	3	0	X		X	X	X	X	X				
<i>Quercus rubra</i>	Red oak	N	3	0	X	X	X	X	X	X	X				
<i>Quercus stellata</i>	Post oak	N	3	0	X	X	X			X	X				
<i>Quercus velutina</i>	Black oak	N	3	0	X		X	X	X	X	X				
<i>Ranunculus abortivus</i> var. <i>abortivus</i>	Small-flowered buttercup, kidney-leaved crowfoot	N	3	0	X			X	X	X	X	X			
<i>Ranunculus recurvatus</i>	Hooked buttercup	N	2	0	X	X		X	X						
<i>Ranunculus sardous</i>	Sardinia buttercup	E	2	0	X	X		X		X					X
<i>Rhamnus caroliniana</i> See: <i>Frangula caroliniana</i>															
<i>Rhus copallina</i>	Winged sumac, shining sumac	N	2	0	X	X	X				X	X			
<i>Rhus glabra</i>	Smooth sumac	N	1	0	X		X		X						
<i>Rhus radicans</i> See: <i>Toxicodendron radicans</i>															
<i>Robinia pseudoacacia</i>	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.
<i>Rorippa palustris</i> (<i>Rorippa islandica</i>)	Marsh yellow cress	N	L2	0	X										X
<i>Rosa carolina</i>	Pasture rose	N	L2	0	X		X				X				
<i>Rosa multiflora</i>	Multiflora rose	E	3	0	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.
<i>Rosa setigera</i> var. <i>tomentosa</i>	Prairie rose	N	1	0	X		X				X	X			
<i>Rotala ramosior</i>	Tooth-cup	N	1	0	X										X
<i>Rubus allegheniensis</i>	Common blackberry, Allegheny blackberry	N	3	0	X	X		X	X	X	X	X			
<i>Rubus enslenii</i>	Arching dewberry	N	2	0	X	X	X				X	X			
<i>Rubus flagellaris</i>	Common dewberry	N	2	0	X	X	X				X	X			
<i>Rubus occidentalis</i>	Black raspberry	N	2	0	X	X	X	X	X	X	X	X			
<i>Rubus pensilvanicus</i>	Blackberry	N	1	0	X	X						X			
<i>Rudbeckia hirta</i> var. <i>hirta</i>	Black-eyed Susan	N	L3	0	X	X	X				X	X			
<i>Rudbeckia laciniata</i>	Goldenglow	N	L4	0	X	X	X	X							
<i>Rudbeckia triloba</i>	Brown-eyed Susan	N	2	0	X		X	X				X			
<i>Ruellia humilis</i>	Wild petunia	N	L3	0	X	X	X				X	X			
<i>Rumex acetosella</i>	Sour dock, field sorrel	E	L3	0	X	X	X				X	X			
<i>Rumex crispus</i>	Curly dock	E	2	0	X	X	X	X				X			
<i>Rumex obtusifolius</i>	Bitter dock, broad-leaved dock	E	2	0	X	X	X	X				X			

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		a	b	M	W	B	H	F	U	M	F	F	O	r	
		t	n	C				F	F	F	G				
<i>Sabatia angularis</i> (<i>Sabatia angulatus</i> in Mohlenbrock 2002 <i>b</i>)	Rose gentian, rose pink, marsh pink	N	L2	0	X		X					X			
<i>Salix nigra</i>	Black willow	N	L2	0	X		X							X	
<i>Salvia lyrata</i>	Lyre-leaved sage	N	2	0	X	X	X	X	X			X			
<i>Sambucus canadensis</i> var. <i>canadensis</i>	Elderberry	N		0	X	X	X					X			
<i>Sambucus canadensis</i> var. <i>submollis</i>	Elderberry	N	2	0	X			X	X	X	X	X			
<i>Sanguinaria canadensis</i>	Bloodroot	N	3	0	X	X	X		X	X					
<i>Sanicula canadensis</i> var. <i>canadensis</i>	Canada black snakeroot	N	3	0	X	X	X	X	X	X	X				
<i>Sanicula odorata</i> (<i>Sanicula gregaria</i>)	Clustered black snakeroot, common black snakeroot	N	-	0		X		X							
<i>Sassafras albidum</i> var. <i>albidum</i>	Sassafras	N		0	X	X	X								
<i>Sassafras albidum</i> var. <i>molle</i>	Red sassafras	N	4	0	X			X	X	X	X	X			
<i>Schizachyrium scoparium</i> (<i>Andropogon scoparius</i>)	Little bluestem	N	L4	0	X	X	X				X	X			
<i>Scirpus cyperinus</i> (<i>Scirpus rubicosus</i>)	Wool grass	N	1	0	X	X	X							X	
<i>Scirpus georgianus</i> (<i>Scirpus atrovirens</i> var. <i>georgianus</i>)	Dark-green bulrush	N	L2	0	X	X	X					X		X	
<i>Scrophularia marilandica</i>	Late figwort, Maryland figwort	N	2	0	X			X	X						
<i>Scutellaria elliptica</i>	Hairy skullcap	N	2	0	X		X	X	X	X	X	X			
<i>Scutellaria incana</i>	Downy skullcap	N	1	0	X		X		X						
<i>Sedum pulchellum</i>	Widow's cross	N	L3	0	X	X	X				X				
<i>Sedum ternatum</i>	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.
<i>Senecio aureus</i> var. <i>gracilis</i>	Golden ragwort	N	L3	0	X	X	X							X	
<i>Senecio glabellus</i>	Butterweed	N	3	0	X		X	X	X	X	X	X			
<i>Senna marilandica</i> (<i>Cassia marilandica</i>)	Wild senna, Maryland senna	N	2	0	X		X	X	X	X	X	X			
<i>Setaria faberi</i>	Giant foxtail	E	1	0	X	X	X					X		X	
<i>Setaria geniculata</i>	Perennial foxtail	N	L2	0	X							X			
<i>Setaria glauca</i> (<i>Setaria lutea</i> , <i>Setaria lutescens</i>)	Yellow foxtail	E	1	0	X		X				X			X	
<i>Sicyos angulatus</i>	Bur cucumber	N	2	0	X			X	X			X			
<i>Sida spinosa</i>	Prickly sida	E	1	0	X									X	
<i>Silene stellata</i>	Starry campion	N	2	0	X	X	X	X	X	X	X	X			
<i>Silphium perfoliatum</i>	Cup plant	N	1	0	X		X	X							
<i>Sisyrinchium albidum</i>	Common blue-eyed grass	N	2	0	X			X			X	X			
<i>Smilacina racemosa</i>	False Solomon's seal	N	2	0	X	X	X		X	X					
<i>Smilax bona-nox</i> var. <i>bona-nox</i>	Saw greenbrier, good-night catbrier	N	L3	0	X	X	X		X	X	X	X			
<i>Smilax bona-nox</i> var. <i>hederaefolia</i>	Saw greenbrier, good-night catbrier	N	1	0	X						X				
<i>Smilax glauca</i> var. <i>leuophylla</i>	Glaucous greenbrier	N	2	0	X	X	X		X		X	X			
<i>Smilax pulverulenta</i>	Powdery carrion flower	N	-	0		X			X						
<i>Smilax rotundifolia</i>	Round-leaved greenbrier	N	L2	0	X		X		X	X	X				

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		t	n	C				F	F	F	G				
<i>Smilax tamnoides</i> var. <i>hispida</i> (<i>Smilax hispida</i>)	Bristly greenbrier	N	2	0	X	X	X	X	X	X	X				
<i>Solanum carolinense</i>	Horse nettle	N	2	0	X	X	X	X			X	X			
<i>Solanum ptycanthum</i> (<i>Solanum ptycanthum</i> in Mohlenbrock 2002 <i>b</i>) (<i>Solanum americanum</i> , <i>Solanum nigrum</i>)	Black nightshade	N	1	0	X									X	
<i>Solidago altissima</i> (<i>Solidago canadensis</i>)	Tall goldenrod	N	L5	0	X	X		X			X	X			
<i>Solidago buckleyi</i>	Buckley's goldenrod	N	L3	0	X	X	X		X	X	X				
<i>Solidago caesia</i>	Blue goldenrod, woodland goldenrod	N	L3	0	X	X	X	X	X	X	X			X	
<i>Solidago flexicaulis</i>	Broadleaf goldenrod, zigzag goldenrod	N	1	0	X		X		X						
<i>Solidago gigantea</i> var. <i>leiophylla</i>	Smooth late goldenrod	N	L4	0	X	X		X				X			
<i>Solidago graminifolia</i> var. <i>nuttallii</i> See: <i>Euthamia graminifolia</i> var. <i>nuttallii</i>															
<i>Solidago juncea</i>	Early goldenrod	N	L2	0	X	X	X					X			
<i>Solidago missouriensis</i> var. <i>fasciculata</i>	Missouri goldenrod	N	L3	0	X		X					X			
<i>Solidago nemoralis</i>	Gray goldenrod, old-field goldenrod	N	3	0	X	X	X				X	X			
<i>Solidago rugosa</i> var. <i>rugosa</i>	Rough-leaved goldenrod	N	3	0	X	X	X	X	X	X	X	X			
<i>Solidago ulmifolia</i>	Elm-leaved goldenrod	N	3	0	X	X			X	X	X				
<i>Sorghum halepense</i>	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.
<i>Specularia perfoliata</i> See: <i>Triodanis perfoliata</i>															
<i>Sphenopholis obtusata</i>	Wedge grass	N		0		X	X				X	X			
<i>Spigelia marilandica</i>	Indian pink	N	1	0	X		X	X		X	X				
<i>Sporobolus vaginiflorus</i>	Poverty grass	N	-	0		X					X	X			
<i>Stachys tenuifolia</i>	Smooth hedge nettle	N	2	0	X		X	X	X						
<i>Staphylea trifolia</i>	Bladdernut	N	L3	0	X	X	X	X	X	X					
<i>Stellaria media</i>	Common chickweed	E	L3	0	X			X	X	X	X	X	X		
<i>Strophostyles umbellata</i>	Wild bean	N	L2	0	X		X					X			
<i>Stylosanthes biflora</i>	Pencil flower	N	2	0	X	X	X				X	X			
<i>Swertia caroliniensis</i> See: <i>Frasera caroliniensis</i>															
<i>Symphiotrichum</i> See: <i>Aster</i>															
<i>Symphoricarpos orbiculatus</i>	Coralberry, buckbrush	N	3	0	X	X	X	X	X	X	X	X			
<i>Tephrosia virginiana</i> var. <i>holosericea</i>	Goat's rue	N	1	0	X		X				X				
<i>Teucrium canadense</i>	American germander	N	L3	0	X	X	X	X				X			
<i>Thalictrum dasycarpum</i>	Meadow rue	N	2	0	X	X	X	X				X			
<i>Thalictrum revolutum</i>	Waxy meadow rue	N	1	0	X			X							
<i>Thelypteris hexagonoptera</i> See: <i>Phegopteris hexagonoptera</i>															

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		t	n	C				F	F	F	G				
<i>Thlaspi perfoliatum</i>	Perfoliate penny cress	E	L2	0	X						X				
<i>Tilia americana</i>	American basswood	N	L3	0	X		X	X							
<i>Tovara virginiana</i> See: <i>Antenoron virginianum</i>															
<i>Toxicodendron radicans</i> var. <i>negundo</i> (<i>Rhus radicans</i> var. <i>negundo</i>)	Poison ivy	N	5	0	X	X	X	X	X	X	X	X			
<i>Toxicodendron radicans</i> var. <i>radicans</i> (<i>Rhus radicans</i> var. <i>radicans</i>)	Poison ivy	N	2	0	X			X	X						
<i>Tracaulon sagittatum</i> (<i>Polygonum sagittatum</i>)	Tear thumb	N	L3	0	X		X	X				X		X	
<i>Tradescantia subaspera</i> var. <i>subaspera</i>	Broad-leaved spiderwort	N	3	0	X	X	X	X	X	X					
<i>Tradescantia virginiana</i>	Virginia spiderwort	N	L2	0	X		X			X					
<i>Trichostema dichotomum</i>	Blue curls, false pennyroyal	N	L3	0	X		X				X				
<i>Tridens flavus</i> (<i>Triodia flava</i>)	Purple-top	N	L3	0	X		X					X			
<i>Trifolium campestre</i>	Low hop clover	E	2	0	X	X						X			
<i>Trifolium hybridum</i>	Alsike clover	E	1	0	X	X	X							X	
<i>Trifolium pratense</i> var. <i>pratense</i>	Red clover	E	2	0	X	X	X					X			
<i>Trifolium repens</i>	White clover	E	2	0	X	X	X	X				X			
<i>Trillium flexipes</i> (<i>Trillium gleasonii</i>)	White trillium	N	1	0	X		X		X						
<i>Trillium recurvatum</i>	Purple trillium, wake robin	N	2	0	X		X		X	X	X				
<i>Triodanis perfoliata</i> (<i>Specularia perfoliata</i>)	Venus' looking glass	N	3	0	X	X	X	X			X	X			
<i>Triodia flava</i> See: <i>Tridens flavus</i>															
<i>Uniola latifolia</i> See: <i>Chasmanthium latifolium</i>															
<i>Ulmus alata</i>	Winged elm	N	3	0	X	X	X			X	X				
<i>Ulmus americana</i>	American elm	N	3	0	X		X	X	X	X	X				
<i>Ulmus rubra</i>	Slippery elm, red elm	N	3	0	X	X	X	X	X	X					
<i>Uvularia grandiflora</i>	Large-flowered bellwort, big merrybells	N	2	0	X		X		X						
<i>Vaccinium arboreum</i> var. <i>arboreum</i>	Farkleberry	N	L3	0	X	X	X				X				
<i>Valeriana pauciflora</i>	Pink valerian, large-flowered valerian	N	1	0	X		X	X							
<i>Valerianella radiata</i> var. <i>radiata</i>	Corn salad	N	2	0	X		X					X			
<i>Verbascum thapsus</i>	Great mullein, woolly mullein	E	1	0	X	X	X				X				
<i>Verbena urticifolia</i> var. <i>urticifolia</i>	White vervain	N	2	0	X	X	X	X	X	X	X				
<i>Verbesina alternifolia</i>	Yellow ironweed	N	3	0	X	X	X	X	X			X			
<i>Verbesina helianthoides</i>	Yellow crownbeard, yellow wingstem	N	3	0	X	X		X	X	X	X	X			
<i>Verbesina virginica</i>	Frostweed, white crownbeard	N	3	0	X	X	X	X	X	X	X				
<i>Vernonia gigantea</i> var. <i>gigantea</i> (<i>Vernonia altissima</i> var. <i>altissima</i>)	Smooth tall ironweed	N	L2	0	X		X					X			
<i>Vernonia missurica</i>	Missouri ironweed	N	L4	0	X	X	X	X				X			
<i>Veronicastrum virginicum</i>	Culver's root, candelabra plant	N	-	0		X	X		X						

Scientific name	Common name	N	A	V	J	M	B	M	M	D	D	S	C	C	Notes
		t	n	C	W	B	H	F	U	M	F	F	O	r	
<i>Viburnum prunifolium</i>	Black haw	N	2	0	X		X		X	X	X				
<i>Viola missouriensis</i>	Missouri violet	N	2	0	X		X	X							
<i>Viola palmata</i> var. <i>dilatata</i>	Cleft violet	N	2	0	X		X			X	X				
<i>Viola rafinesquii</i>	Johnny-jump-up	E	L3	0	X		X				X	X			
<i>Viola sagittata</i>	Arrow-leaved violet	N	1	0	X						X				
<i>Viola sororia</i> (<i>Viola papilionacea</i> , <i>Viola pratensis</i>)	Woolly blue violet	N	L3	0	X	X	X	X	X	X					
<i>Viola striata</i>	Cream violet	N	2	0	X		X	X							
<i>Vitis aestivalis</i> var. <i>aestivalis</i>	Summer grape	N	2	0	X	X	X			X		X			
<i>Vitis cinerea</i>	Winter grape	N	L2	0	X		X			X					
<i>Vitis riparia</i>	Riverbank grape	N	L2	0	X			X							
<i>Vitis vulpina</i>	Fox grape, frost grape	N	3	0	X	X	X	X	X	X	X	X			
<i>Vulpia octoflora</i> var. <i>octoflora</i> (<i>Festuca octoflora</i> var. <i>octoflora</i>)	Six-weeks fescue	N	L4	0	X	X					X	X			
<i>Woodsia obtusa</i>	Common woodsia	N	3	0	X	X	X			X	X				
<i>Woodwardia areolata</i>	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 overhang; evidently runoff from a recent torrential rain tore all of it from the cliff.
<i>Xanthium strumarium</i> var. <i>glabratum</i> (<i>Xanthium chinense</i>)	Common cocklebur	N		0	X	X	X								
<i>Yucca smalliana</i> (<i>Yucca filamentosa</i> , <i>Yucca flaccida</i>)	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.
<i>Zizia aurea</i>	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

* 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. †

* 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) *Pycnanthemum 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 2002a:95, 333), *Lactuca muralis* (Mohlenbrock 2002b:127–128), *Panicum consanguineum* (Mohlenbrock 2001, 2002b), *Rubus ostryifolius* (Mohlenbrock 2002b: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*).

count two hybrids: *Dryopteris* × *neo-wherryi* and *Lespedeza simulata* (which is now classified as *Lespedeza* × *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 (<i>Carex oxylepis</i>)	Threatened	X
Willdenow’s sedge (<i>Carex willdenowii</i>)	Threatened	X
Appalachian bugbane (<i>Cimicifuga rubifolia</i>)	Threatened	X
Yadkin panic grass (<i>Dichanthelium yadkinense</i>)	Endangered	X
French’s shooting star (<i>Dodecatheon frenchii</i>)	Threatened	X
Climbing milkweed (<i>Matelea obliqua</i>)	Threatened	
Goldie’s fern (<i>Dryopteris goldiana</i>)		X
Superb lily (<i>Lilium superbum</i>)		X
Ginseng (<i>Panax quinquefolius</i>)		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 (<i>Lespedeza cuneata</i>)	Low
Johnson grass (<i>Sorghum halepense</i>)	Moderate
Autumn olive (<i>Elaeagnus umbellata</i>)	High
Japanese honeysuckle (<i>Lonicera japonica</i>)	High
Chinese yam (<i>Dioscorea oppositifolia</i>)	High
Stilt grass (<i>Microstegium vimineum</i>)	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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My work was completed under a contract with the Illinois Audubon Society. Tom Clay and Terri Treacy of Illinois Audubon administered the contract. Terri also provided background information about the site, furnished accommodations at War Bluff Valley Sanctuary, and arranged for my access to the property.

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)

<i>Justicia americana</i>	Water willow
<i>Ruellia humilis</i>	Wild petunia

Agave family (Agavaceae)

<i>Manfreda virginica</i>	American aloe
<i>Yucca smalliana</i>	Yucca

Amaryllis family (Amaryllidaceae)

<i>Hypoxis hirsuta</i>	Yellow star grass
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Arum family (Araceae)

<i>Arisaema dracontium</i>	Green dragon
<i>Arisaema triphyllum</i> ssp. <i>triphyllum</i>	Jack-in-the-pulpit

Aster or composite family (Asteraceae)

<i>Achillea millefolium</i> var. <i>millefolium</i>	Yarrow
<i>Ageratina altissima</i>	White snakeroot
<i>Ambrosia artemisiifolia</i>	Common ragweed
<i>Ambrosia bidentata</i>	Lance-leaved ragweed
<i>Ambrosia trifida</i> var. <i>trifida</i>	Giant ragweed
<i>Antennaria plantaginifolia</i>	Pusseytoes
<i>Anthemis cotula</i>	Dog fennel
<i>Arnoglossum atriplicifolium</i>	Pale Indian plantain
<i>Aster lanceolatus</i> var. <i>simplex</i>	Panicked aster
<i>Aster lateriflorus</i>	Side-flowered aster
<i>Aster patens</i>	Spreading aster
<i>Aster pilosus</i>	Frost aster
<i>Aster praealtus</i> var. <i>praealtus</i>	Willow aster
<i>Aster sagittifolius</i>	Arrow-leaved aster
<i>Aster shortii</i>	Short's aster
<i>Aster turbinellus</i>	Top-shaped aster
<i>Bidens aristosa</i> var. <i>aristosa</i>	Swamp marigold
<i>Bidens aristosa</i> var. <i>fritcheyi</i>	Swamp marigold
<i>Bidens bipinnata</i>	Spanish needles
<i>Bidens frondosa</i>	Common beggar's ticks
<i>Bidens polylepis</i>	Bur marigold
<i>Cirsium altissimum</i>	Tall thistle
<i>Cirsium discolor</i>	Field thistle
<i>Conoclinium coelestinum</i>	Mist flower
<i>Conyza canadensis</i>	Horseweed
<i>Coreopsis pubescens</i>	Tickseed
<i>Coreopsis tripteris</i> var. <i>tripteris</i>	Tall coreopsis
<i>Eclipta prostrata</i>	Yerba de tajo
<i>Elephantopus carolinianus</i>	Elephant's foot
<i>Erechtites hieracifolia</i> var. <i>hieracifolia</i>	White fireweed
<i>Erigeron annuus</i>	Annual fleabane
<i>Erigeron philadelphicus</i>	Marsh fleabane
<i>Erigeron strigosus</i>	Daisy fleabane
<i>Eupatoriadelphus fistulosus</i>	Hollow Joe Pye weed
<i>Eupatorium perfoliatum</i>	Common boneset
<i>Eupatorium serotinum</i>	Late boneset
<i>Euthamia graminifolia</i> var. <i>nuttallii</i>	Grass-leaved goldenrod
<i>Gamochaeta purpurea</i>	Early cudweed
<i>Helenium flexuosum</i>	Purple sneezeweed
<i>Helianthus divaricatus</i>	Woodland sunflower
<i>Helianthus hirsutus</i>	Hispid sunflower
<i>Helianthus microcephalus</i>	Small-headed sunflower
<i>Helianthus tuberosus</i> var. <i>tuberosus</i>	Jerusalem artichoke

<i>Heliopsis helianthoides</i> var. <i>helianthoides</i>	False sunflower
<i>Hieracium gronovii</i>	Hairy hawkweed
<i>Hieracium longipilum</i>	Long-bearded hawkweed
<i>Iva annua</i>	Marsh elder
<i>Krigia biflora</i>	Dwarf dandelion
<i>Lactuca canadensis</i> var. <i>canadensis</i>	Yellow wild lettuce
<i>Lactuca canadensis</i> var. <i>latifolia</i>	Yellow wild lettuce
<i>Lactuca floridana</i> var. <i>floridana</i>	Blue wild lettuce
<i>Lactuca floridana</i> var. <i>villosa</i>	Blue wild lettuce
<i>Lactuca hirsuta</i> var. <i>sanguinea</i>	Hairy lettuce
<i>Leucanthemum vulgare</i>	Ox-eye daisy
<i>Prenanthes altissima</i>	Tall white lettuce
<i>Prenanthes aspera</i>	Rough white lettuce
<i>Prenanthes crepidinea</i>	Great white lettuce
<i>Pseudognaphalium obtusifolium</i>	Sweet everlasting
<i>Rudbeckia hirta</i> var. <i>hirta</i>	Black-eyed Susan
<i>Rudbeckia laciniata</i>	Goldenglow
<i>Rudbeckia triloba</i>	Brown-eyed Susan
<i>Senecio aureus</i> var. <i>gracilis</i>	Golden ragwort
<i>Senecio glabellus</i>	Butterweed
<i>Silphium perfoliatum</i>	Cup plant
<i>Solidago altissima</i>	Tall goldenrod
<i>Solidago buckleyi</i>	Buckley's goldenrod
<i>Solidago caesia</i>	Blue goldenrod
<i>Solidago flexicaulis</i>	Broadleaf goldenrod
<i>Solidago gigantea</i> var. <i>leiophylla</i>	Smooth late goldenrod
<i>Solidago juncea</i>	Early goldenrod
<i>Solidago missouriensis</i> var. <i>fasciculata</i>	Missouri goldenrod
<i>Solidago nemoralis</i>	Gray goldenrod
<i>Solidago rugosa</i> var. <i>rugosa</i>	Rough-leaved goldenrod
<i>Solidago ulmifolia</i>	Elm-leaved goldenrod
<i>Verbesina alternifolia</i>	Yellow ironweed
<i>Verbesina helianthoides</i>	Yellow crownbeard
<i>Verbesina virginica</i>	Frostweed
<i>Vernonia gigantea</i> var. <i>gigantea</i>	Smooth tall ironweed
<i>Vernonia missurica</i>	Missouri ironweed
<i>Xanthium strumarium</i> var. <i>glabratum</i>	Common cocklebur

Barberry family (Berberidaceae)

<i>Caulophyllum thalictroides</i>	Blue cohosh
<i>Podophyllum peltatum</i>	Mayapple

Basswood family (Tiliaceae)

<i>Tilia americana</i>	American basswood
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Beech family (Fagaceae)

<i>Fagus grandifolia</i> var. <i>caroliniana</i>	American beech
<i>Quercus alba</i>	White oak
<i>Quercus coccinea</i>	Scarlet oak
<i>Quercus imbricaria</i>	Shingle oak
<i>Quercus marilandica</i>	Blackjack oak
<i>Quercus muhlenbergii</i>	Chinquapin oak
<i>Quercus rubra</i>	Red oak
<i>Quercus stellata</i>	Post oak
<i>Quercus velutina</i>	Black oak

Bellflower family (Campanulaceae)

<i>Campanulastrum americanum</i>	
var. <i>americanum</i>	American bellflower
<i>Lobelia cardinalis</i>	Cardinal flower
<i>Lobelia inflata</i>	Indian tobacco

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

Sanicula odorata Clustered black snakeroot
Zizia aurea Golden Alexanders

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

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
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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
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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 eliottiana	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

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

Greenbrier family (Smilacaceae)

<i>Smilax bona-nox</i> var. <i>bona-nox</i>	Saw greenbrier
<i>Smilax bona-nox</i> var. <i>hederaefolia</i>	Saw greenbrier
<i>Smilax glauca</i> var. <i>leuophylla</i>	Glaucous greenbrier
<i>Smilax pulverulenta</i>	Powdery carrion flower
<i>Smilax rotundifolia</i>	Round-leaved greenbrier
<i>Smilax tamnoides</i> var. <i>hispida</i>	Bristly greenbrier

Hazel family (Corylaceae)

<i>Carpinus caroliniana</i> var. <i>caroliniana</i>	Musclewood
<i>Corylus americana</i>	American hazel
<i>Ostrya virginiana</i> var. <i>lasia</i>	Hop hornbeam
<i>Ostrya virginiana</i> var. <i>virginiana</i>	Hop hornbeam

Heath family (Ericaceae)

<i>Vaccinium arboreum</i> var. <i>arboreum</i>	Farkleberry
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Holly family (Aquifoliaceae)

<i>Ilex decidua</i>	Deciduous holly
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Honeysuckle family (Caprifoliaceae)

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

Horse chestnut family (Hippocastanaceae)

<i>Aesculus glabra</i> var. <i>glabra</i>	Ohio buckeye
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Hydrangea family (Hydrangeaceae)

<i>Hydrangea arborescens</i>	Wild hydrangea
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Iris family (Iridaceae)

<i>Sisyrinchium albidum</i>	Common blue-eyed grass
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Jewelweed family (Balsaminaceae)

<i>Impatiens capensis</i>	Orange touch-me-not
<i>Impatiens pallida</i>	Pale touch-me-not

Laurel family (Lauraceae)

<i>Lindera benzoin</i> var. <i>benzoin</i>	Spicebush
<i>Lindera benzoin</i> var. <i>pubescens</i>	Spicebush

<i>Sassafras albidum</i> var. <i>albidum</i>	Sassafras
<i>Sassafras albidum</i> var. <i>molle</i>	Red sassafras

Legumes (Caesalpinaceae and Fabaceae)

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

Lily family (Liliaceae)

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

Logania family (Loganiaceae)

<i>Spigelia marilandica</i>	Indian pink
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Loosestrife family (Lythraceae)

<i>Rotala ramosior</i>	Tooth-cup
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Lopseed family (Phrymaceae)

<i>Phryma leptostachya</i>	Lopseed
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Madder family (Rubiaceae)

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

Magnolia family (Magnoliaceae)

<i>Liriodendron tulipifera</i>	Tuliptree
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Mallow family (Malvaceae)

<i>Abutilon theophrastii</i>	Velvet-leaf
<i>Sida spinosa</i>	Prickly sida

Maple family (Aceraceae)

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

Milkweed family (Asclepiadaceae)

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

Milkwort family (Polygalaceae)

<i>Polygala sanguinea</i>	Field milkwort
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Mint family (Lamiaceae)

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

Moonseed family (Menispermaceae)

<i>Menispermum canadense</i>	Moonseed
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Morning glory family (Convolvulaceae)

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

Mulberry family (Moraceae)

<i>Maclura pomifera</i>	Hedge-apple
<i>Morus alba</i>	White mulberry
<i>Morus rubra</i>	Red mulberry

Mustard family (Brassicaceae)

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

Nettle family (Urticaceae)

<i>Boehmeria cylindrica</i> var. <i>cylindrica</i>	False nettle
<i>Laportea canadensis</i>	Wood nettle
<i>Parietaria pensylvanica</i>	Pellitory
<i>Pilea pumila</i>	Clearweed

Nightshade family (Solanaceae)

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

Oleaster family (Elaeagnaceae)

<i>Elaeagnus umbellata</i>	Autumn olive
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Olive family (Oleaceae)

<i>Fraxinus americana</i> var. <i>americana</i>	White ash
<i>Fraxinus pennsylvanica</i>	Red ash

Orchid family (Orchidaceae)

<i>Aplectrum hyemale</i>	Puity-root orchid
<i>Platanthera lacera</i>	Green fringed orchid

Phlox family (Polemoniaceae)

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

Pine family (Pinaceae)

<i>Pinus echinata</i>	Shortleaf pine
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Pink family (Caryophyllaceae)

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

<i>Silene stellata</i>	Starry campion
<i>Stellaria media</i>	Common chickweed

Plane tree family (Platanaceae)

<i>Platanus occidentalis</i>	Sycamore
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Plantain family (Plantaginaceae)

<i>Plantago lanceolata</i>	Buckhorn
<i>Plantago rugelii</i>	Rugel's plantain
<i>Plantago virginica</i>	Virginia plantain

Pokeweed family (Phytolaccaceae)

<i>Phytolacca americana</i>	Pokeweed
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Poppy family (Papaveraceae)

<i>Sanguinaria canadensis</i>	Bloodroot
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Primrose family (Primulaceae)

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

Purslane family (Portulacaceae)

<i>Claytonia virginica</i>	Spring beauty
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Rock rose family (Cistaceae)

<i>Lechea tenuifolia</i>	Narrow-leaved pinweed
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Rose family (Rosaceae)

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

Rush family (Juncaceae)

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

Saxifrage family (Saxifragaceae)

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

Sedge family (Cyperaceae)

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

Smartweed family (Polygonaceae)

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

Spikenard family (Araliaceae)

<i>Panax quinquefolius</i>	Ginseng
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Spurge family (Euphorbiaceae)

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

St. John's wort family (Hypericaceae)

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

Stonecrop family (Crassulaceae)

<i>Sedum pulchellum</i>	Widow's cross
<i>Sedum ternatum</i>	Three-leaved stonecrop

Tupelo family (Nyssaceae)

<i>Nyssa sylvatica</i> var. <i>caroliniana</i>	Black gum
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Valerian family (Valerianaceae)

<i>Valeriana pauciflora</i>	Pink valerian
<i>Valerianella radiata</i> var. <i>radiata</i>	Corn salad

Vervain family (Verbenaceae)

<i>Verbena urticifolia</i> var. <i>urticifolia</i>	White vervain
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Violet family (Violaceae)

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

Walnut family (Juglandaceae)

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

Water lily family (Nymphaeaceae)

<i>Nuphar advena</i>	Yellow pond lily
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Water plantain family (Alismataceae)

<i>Alisma subcordatum</i>	Small-flowered water plantain
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Water starwort family (Callitrichaceae)

<i>Callitriche terrestris</i>	Terrestrial starwort
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Waterleaf family (Hydrophyllaceae)

<i>Hydrophyllum canadense</i>	Broad-leaved waterleaf
<i>Hydrophyllum virginianum</i>	Virginia waterleaf
<i>Phacelia purshii</i>	Miami mist

Willow family (Salicaceae)

<i>Populus deltoides</i>	Eastern cottonwood
<i>Salix nigra</i>	Black willow

Witch hazel family (Hamamelidaceae)

<i>Liquidambar styraciflua</i>	Sweetgum
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Wood sorrel family (Oxalidaceae)

<i>Oxalis fontana</i>	Yellow wood sorrel
<i>Oxalis stricta</i>	Yellow wood sorrel
<i>Oxalis violacea</i>	Violet wood sorrel

Yam family (Dioscoreaceae)

<i>Dioscorea oppositifolia</i>	Chinese yam
<i>Dioscorea quaternata</i> var. <i>quaternata</i>	Wild yam
<i>Dioscorea villosa</i>	Wild yam

Appendix 2. Plants listed by common name.

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

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

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

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

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

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 eliottiana*, *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 eliottii*), *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 albur-sina*, *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 glaucoidea, *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 tricornis*, *Dentaria laciniata*, *Deparia acrostichoides* (*Athyrium thelypteroides*), *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 tennesseeense*), *Dichanthelium boscii* var. *boscii*, *Dichanthelium clandestinum* (*Panicum clandestinum*), *Dichanthelium commutatum* var. *commutatum* (*Panicum commutatum* var. *commutatum*), *Dichanthelium depauperatum* (*Panicum depauperatum*), *Dichanthelium dichotomum* (*Panicum barbula-tum*, *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 superbium*, *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 pratensis), 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.











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: ^N37°32.3077' Longitude: W88°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: Ostrea virginiana, Smilax bona-nox, Fraxinus americana.

Township/Range/Section Data: _____ Ground layer: Carex oxylepis, Antennaria plantaginifolia, Chasmanthium latifolium, Danthonia spicata

PLANT POPULATION DATA

NE 1/4 NW 1/4 section 27, T11S, R6E, 3rd PM
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

Corex 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, Corex 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; 219-344-5041; John.Jack.White@gmail.com
Jody Shemp, Illinois Department of Natural Resources, 11731 State Highway 39, Benton, Illinois 62812; 618-435-8138 ext. 127; Jody.Shemp@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 rubra 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 Carex. Ground layer: sedges and grasses.
Township/Range/Section Data: NE 1/4 NW 1/4 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 Wetlands 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 Shing 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 Shing, Illinois Department of Natural Resources, 11731 State Highway 37, Benton, Illinois 62812; 618-435-8138 ext. 127; Jody.Shing@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 rubrifolia

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 subra

Understory: Lindera benzoin, Aegopogon alaba, Asimina triloba. Herbaceous

Township/Range/Section Data: associates Carex caseyana, Aristida pedatum, Polystichum acrostichoides, Uvularia grandiflora

PLANT POPULATION DATA

→ SE 1/4 NW 1/4 section 27, T11S, R6E, 3rd PM
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 rubrifolia

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 Schweigman, 3626 Riverspoint 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 wadkinense

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: NW^{1/4} 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): Klincks Audubon Society's Lusk Creek site for Dichanthelium wadkinense

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): _____

Dicranthelium 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 Smith 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 E 1/2 NW 1/4 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 # seedlings/juveniles: Many
(observed later in the season)

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) The GPS location (above) is a point at the center of the population
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): 23

Dodecatheon frenchii, Illinois Audubon's Lark 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 severe 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: E 1/2 NE 1/4 SE 1/4 NW 1/4 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 Link 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: W 1/2 NE 1/4 NW 1/4 section 27, T11S, R6E, 3rd PM

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