

**Final Report - Spring 2014 Rare Plant Monitoring at Lake Atalanta Park,
Rogers, Arkansas**



Taper-tip Wild Ginger (*Asarum canadense* var. *acuminatum*) growing near Frisco Spring in Lake Atalanta Park. Primarily a northern and Appalachian variety, it is known in Arkansas only from a few sites in mesic forests in Benton and Stone counties. Photo by Theo Witsell/ANHC.

By Theo Witsell

Arkansas Natural Heritage Commission

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By Theo Witsell, Arkansas Natural Heritage Commission

Executive Summary

In January, April, and May of 2014, staff of the Arkansas Natural Heritage Commission (ANHC) and the City of Rogers conducted rare plant species monitoring in Lake Atalanta Park. Locations of all rare plants previously documented from the park were marked on the ground. Additional populations of two rare species previously known from the park and populations of two rare species not previously known from the park were found. Maps and detailed information are provided for all known occurrences of these spring-blooming rare plants in the park. An updated annotated list of plant species documented from the park is also provided.

Background and Results

Lake Atalanta Park is owned by the City of Rogers and includes properties surrounding Lake Atalanta. In December of 2013 the City of Rogers contracted with the ANHC to conduct rare plant monitoring on city-owned lands surrounding Lake Atalanta during the winter and spring of 2014. This monitoring work included marking the locations (on the ground) of all known rare plant species and conducting surveys of certain areas for additional rare plant species that are identifiable in the winter and spring. The following site visits were made to Lake Atalanta Park in 2014:

30 January 2014 – Theo Witsell (ANHC Botanist), David Hook (City of Rogers), and Ellen Turner (Northwest Arkansas Community College)

31 January 2014 – Theo Witsell (ANHC Botanist) and David Hook (City of Rogers)

16 April 2014 – Theo Witsell (ANHC Botanist) and David Hook (City of Rogers)

17 April 2014 – Theo Witsell (ANHC Botanist) and David Hook (City of Rogers)

18 April 2014 – Theo Witsell (ANHC Botanist)

25 April 2014 – Theo Witsell (ANHC Botanist) and David Hook (City of Rogers)

30 May 2014 – Theo Witsell (ANHC Botanist)

Activities performed on these trips included marking the locations of known rare plant populations, conducting surveys for rare plant species best located and identified in spring, and conducting additional

inventory of specific habitats or areas of conservation interest within the park. Additional populations of Ozark Trillium and Taper-tip Wild Ginger, two rare plant species known from the park, were discovered, and populations of Prairie White Trout Lily and Cluster Sedge, two rare plant species not previously known from the park, were also found.

Appendix B of this report provides updated information on occurrences of the spring-blooming rare plants in Lake Atlanta Park: Taper-tip Wild Ginger (*Asarum canadense* var. *acuminatum*), Cluster Sedge (*Carex aggregata*), Prairie White Trout Lily (*Erythronium mesochoreum*), and Ozark Trillium (*Trillium ozarkanum*). This report does not include information on the summer- and fall-blooming rare plants: Church's Wild Rye (*Elymus churchii*), Pale Gentian (*Gentiana alba*), White Rattlesnake-root (*Prenanthes alba*), Smooth Rosinweed (*Silphium integrifolium* var. *laeve*), and Slender Nettle (*Urtica gracilis*). Information on occurrences of these species is provided in the 2013 ANHC report. Both reports will need to be consulted for a full accounting of the known rare plants in the park.

An updated master list of plant species occurring in Lake Atalanta Park is provided in Appendix D. Sixty-nine species were added to the existing (2013) list based on inventory work conducted in spring of 2014. This brings the total number of plant species documented from the park to 608.

Acknowledgments

David Hook (City of Rogers) accompanied me during most of the site visits in Lake Atalanta Park, and Ellen Turner accompanied us both on one trip.

APPENDIX A: AERIAL PHOTO AND TOPOGRAPHIC MAPS OF LAKE ATALANTA PARK

Location of Lake Atalanta Park

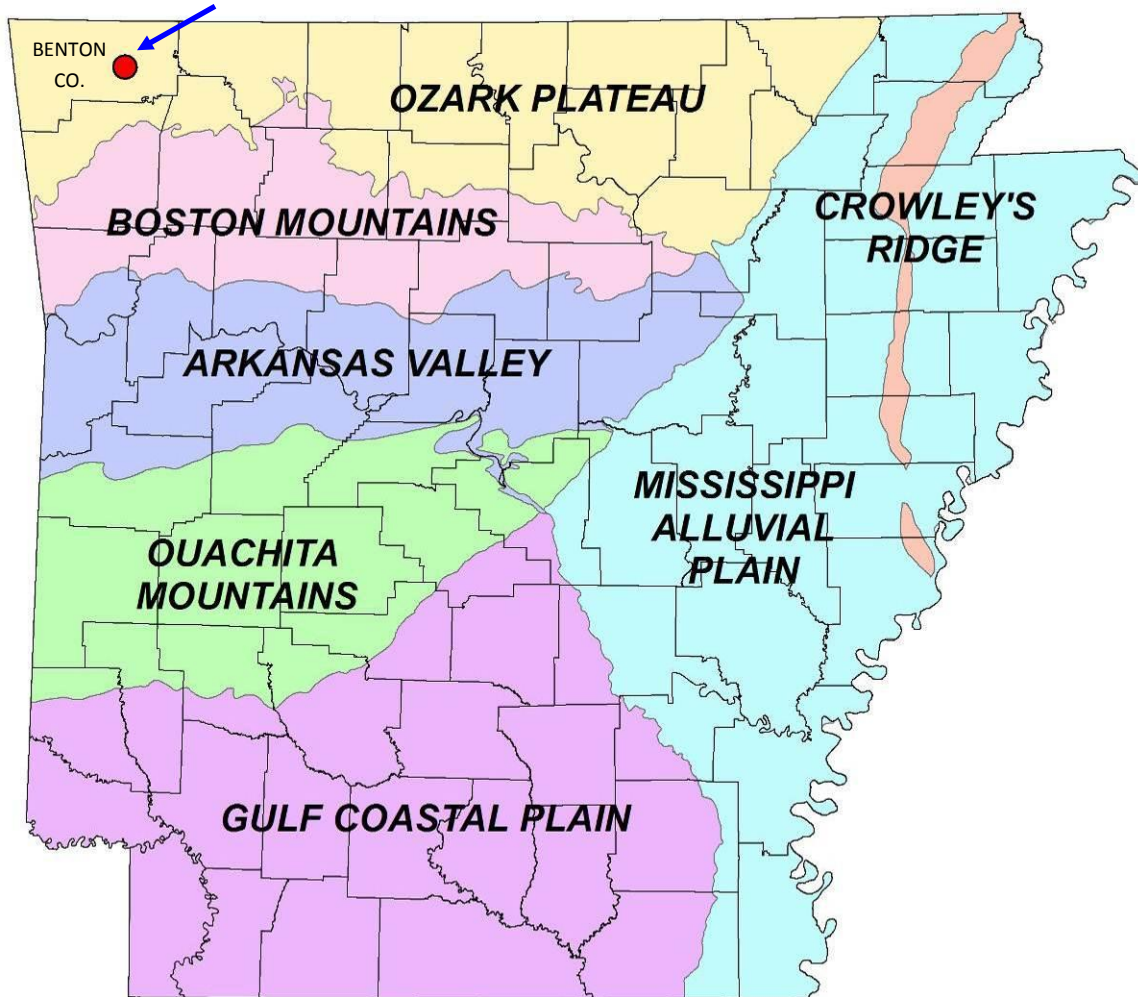


FIGURE 1. Location of Lake Atalanta Park, Benton County, Arkansas.

Lake Atalanta Park – Aerial Photo

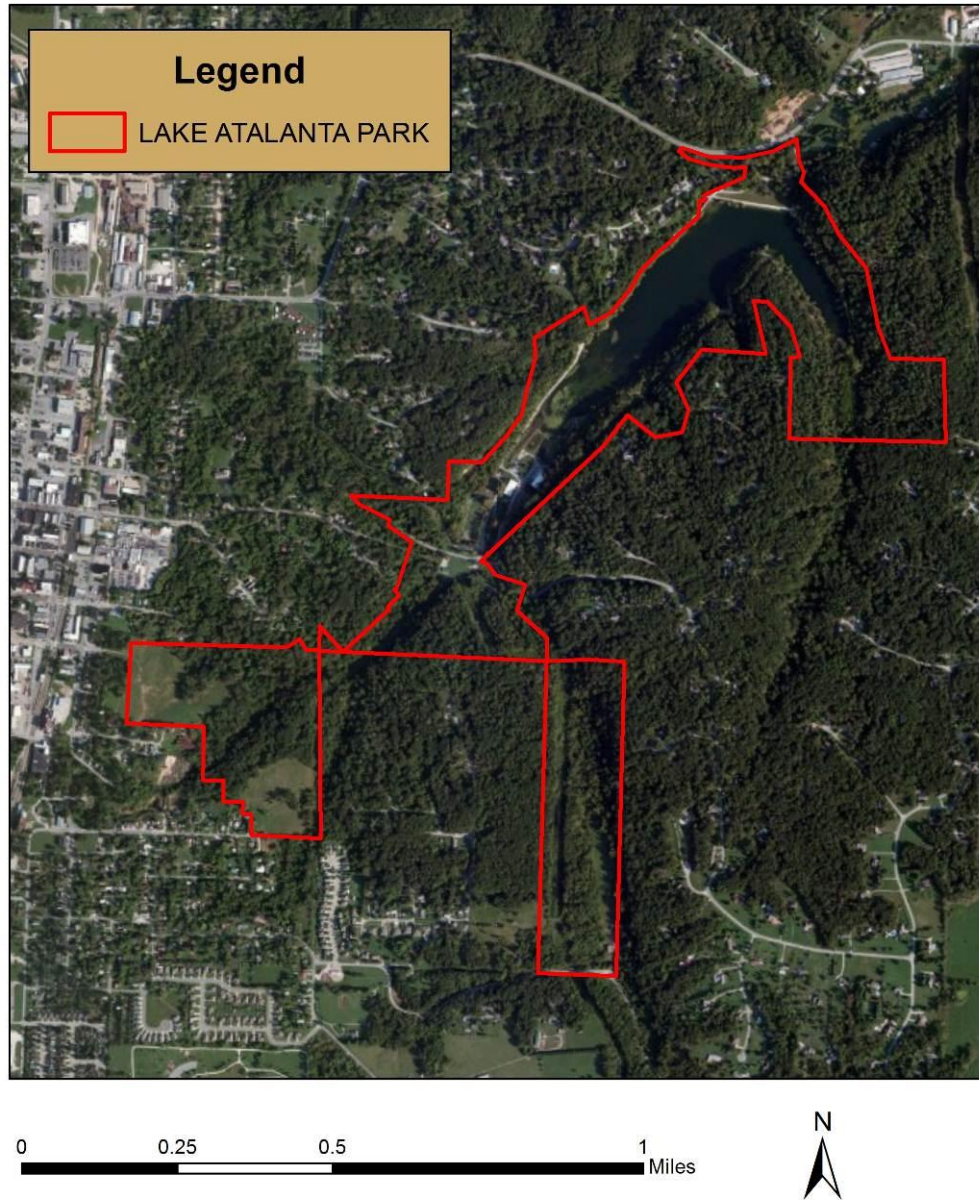


FIGURE 2. Map of Lake Atalanta Park on 2012 aerial photo. Map by Theo Witsell, Arkansas Natural Heritage Commission, 2013.

Lake Atalanta Park – Topo Map

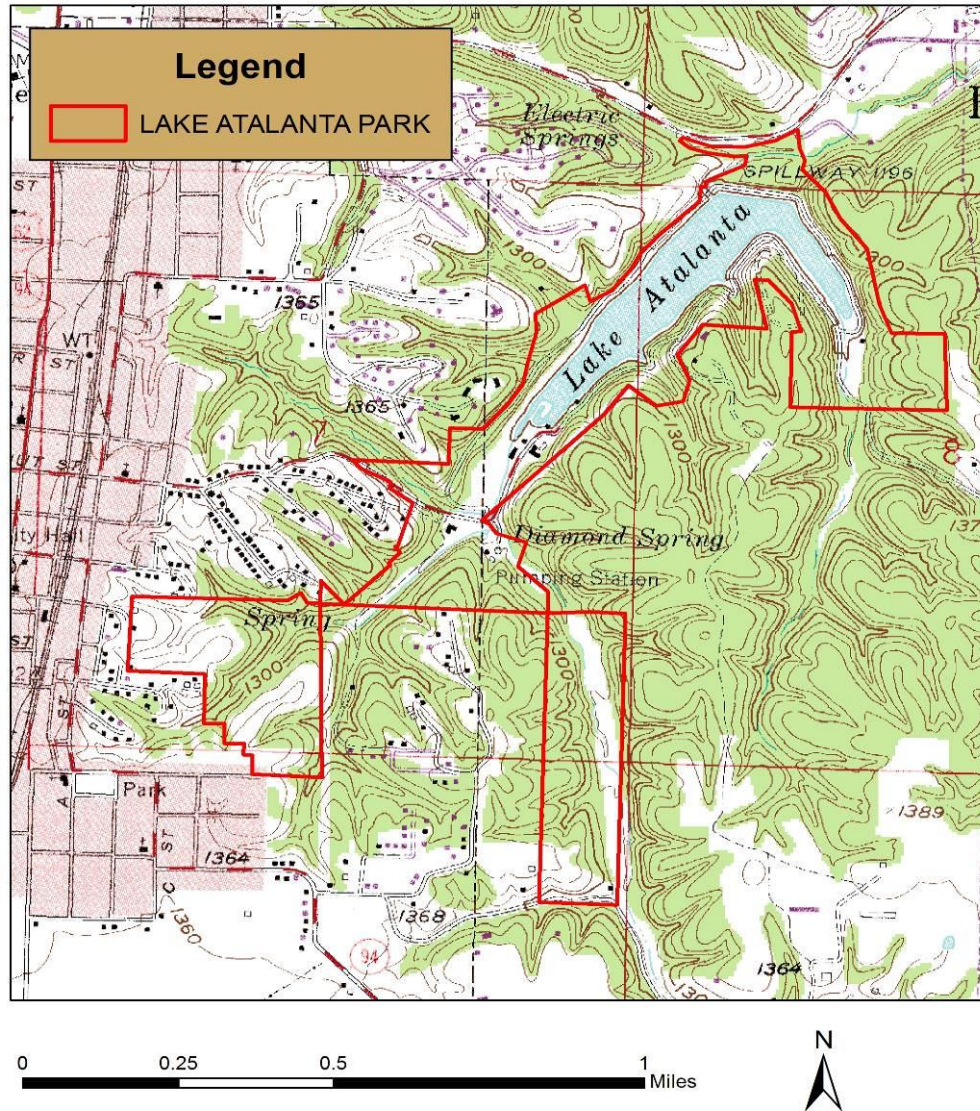


FIGURE 3. Map of Lake Atalanta Park on USGS topo map from Rogers 7.5' quadrangle. Map by Theo Witsell, Arkansas Natural Heritage Commission, 2013.

APPENDIX B:

SPRING-BLOOMING SPECIES OF CONSERVATION CONCERN FOUND AT LAKE ATALANTA PARK

The following species occurring at Lake Atalanta Park have been identified by the Arkansas Natural Heritage Commission as being of conservation concern in Arkansas. Those preceded by an asterisk (*) are best identified in spring and are included in this report. Each of these spring species is presented with general information on its range and habitat followed by specific information on populations found at Lake Atalanta Park. Each species is also given along with its global (G) and state (S) conservation status ranks. A legend explaining these rank codes is provided in appendix C.

- 1) * Taper-tip Wild Ginger (*Asarum canadense* var. *acuminatum*) – G5TNRS1
- 2) * Cluster Sedge (*Carex aggregata*) – G5S1
- 3) Pale Gentian (*Gentiana alba*) – G4S1
- 4) Church's Wild Rye (*Elymus churchii*) – G2G3S2?
- 5) * Prairie White Trout Lily (*Erythronium mesochoreum*) – G4G5S1S2
- 6) White Rattlesnake-root (*Prenanthes alba*) – G5S1S2
- 7) Smooth Rosinweed (*Silphium integrifolium* var. *laeve*) – G5T4?S1
- 8) * Ozark Trillium (*Trillium ozarkanum*) – G3S3
- 9) Slender Nettle (*Urtica gracilis*) – G5S1

Taper-tip Wild Ginger (*Asarum canadense* var. *acuminatum*) – G5TNR51

This variety of wild ginger is characterized by its large size, acuminate leaf tips, and flowers with long, tapering tips that are not reflexed. Its distribution is primarily northern and Appalachian. It is rare in Arkansas, where it is known only from mesic calcareous forests in Benton and Stone counties. It was first documented in Arkansas from Lake Atalanta Park on 15 May 2011 from at two sites (sites 1 and 2 below), both associated with mesic hardwood forests along small streams. Two additional sites (sites 3 and 4 below) were found in April 2014.

It should be noted that another variety of wild ginger, *Asarum canadense* var. *reflexum*, also occurs at Lake Atalanta Park. This variety is common in Arkansas and can be identified by its smaller size, bluntly rounded leaf tips, and flowers with short, abruptly reflexed tips. At sites where the two varieties occur together, var. *acuminatum* is generally restricted to moist, high pH sites, while var. *reflexum* can occur in habitats with a broader range of conditions. While most patches of wild ginger seen at Lake Atalanta Park in 2014 were clearly var. *reflexum*, a few patches were observed in mesic habitat that lacked mature flowering plants and could not be confidently determined to variety.

SITE 1: Centrum = 36.33608, -94.10279

50+ plants were observed on 25 April 2014 scattered in a mesic ravine on the west side of Lake Atalanta.

SITE 2: Centrum = 36.32919, -94.10961

75+ plants were observed on 25 April 2014 in a mesic ravine upstream of Lake Atalanta near the junction of two streams near a trail crossing. This population was marked with flagging tape to avoid damage during nearby trail construction.

SITE 3: Centrum = 36.33054, -94.10675

Three plants were observed on 16 April 2014 on the west side-slope of “Frisco Spring Hollow” upstream from Walnut Street. This site is in the vicinity of an obvious but unofficial trail leading from the official trail on the valley floor to a small bluffline upslope. One plant was observed immediately south of this trail (at 36.33047, -94.10679), and two plants were observed about 35 feet north of this trail (at 36.33054, -94.10675), associated with a small wet-weather seepage area. Habitat is degraded mesic hardwood forest with limestone derived soils. Associate species include early wild rye (*Elymus macgregorii*), spreading chervil (*Chaerophyllum procumbens*), burning-bush (*Euonymus alatus*), winter-creeper (*Euonymus fortunei*), spicebush (*Lindera benzoin*), purple dead-nettle (*Lamium purpureum*), cleavers (*Galium aparine*), woodland blue grass (*Poa sylvestris*), Japanese honeysuckle (*Lonicera japonica*), rock buttercup (*Ranunculus micranthus*), American elm (*Ulmus americana*), and box elder (*Acer negundo*). These plants were marked with pinflags to avoid damage during nearby trail construction.

SITE 4: Centrum = 36.32817, -94.10137

Several plants were observed on the uphill side of a recently installed trail. Habitat was a degraded mesic forest on a lower east-facing slope with limestone-derived soils. Canopy species include white oak (*Quercus alba*), black walnut (*Juglans nigra*), and sugar maple (*Acer saccharum*). Associate species include Japanese honeysuckle (*Lonicera japonica*), rue-anemone (*Thalictrum thalictroides*), Canadian black-snakeroot (*Sanicula canadensis*), multiflora rose (*Rosa multiflora*), nodding fescue (*Festuca subverticillata*), and Chinese privet (*Ligustrum sinense*).

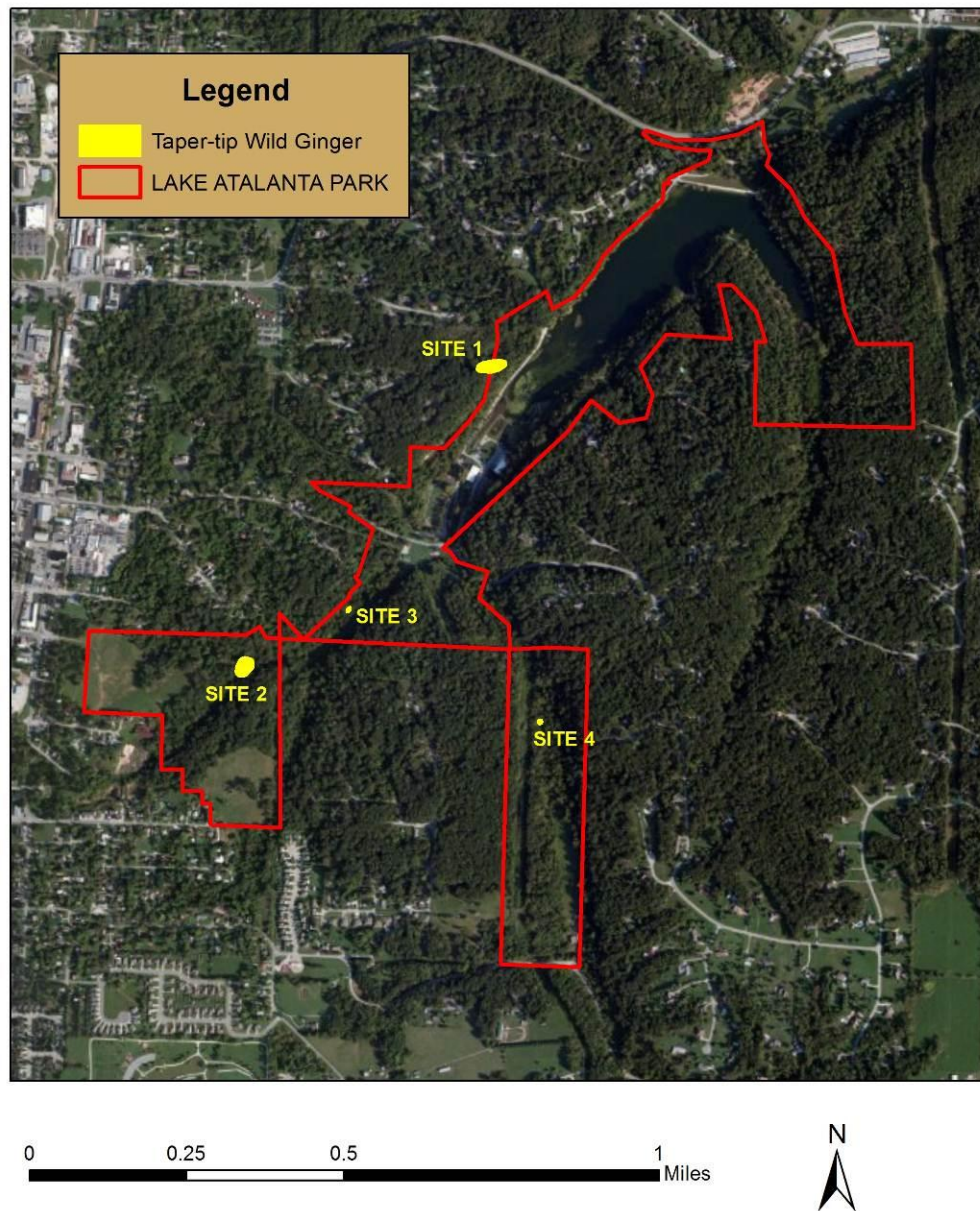


FIGURE 4. Map showing location of Taper-tip Wild Ginger at Lake Atalanta Park. Map by Theo Witsell, ANHC, 2014.

Cluster Sedge (*Carex aggregata*) – G5S1

This northern species is at the southern edge of its range in the Ozarks. It is known in Arkansas only from a few sites in Benton, Washington, Fulton, and Sharp counties. It was found in two areas of Lake Atalanta Park on 30 May 2014.

SITE 1: Centrum = 36.33387, -94.10383

A single clump was observed in a wet open area along a small spring run on the southwest side of Lake Atalanta. Associate species include eastern narrowleaf sedge (*Carex amphibola*), yellowfruit sedge (*Carex annectens*), Frank's sedge (*Carex frankii*), limestone meadow sedge (*Carex granularis*), fox sedge (*Carex vulpinoidea*), and early wild rye (*Elymus macgregorii*).

SITE 2: Centrum = 36.33248, -94.10543

Several clumps were observed at the south edge of an open mowed area, just above a steep ravine that drops down to a stream that runs parallel to Walnut Street. Associate species include nodding fescue (*Festuca subverticillata*), early wild rye (*Elymus macgregorii*), ground-ivy (*Glechoma hederacea*), cinnamon-vine (*Dioscorea polystachya*), Japanese stilt grass (*Microstegium vimineum*), eastern narrowleaf sedge (*Carex amphibola*), and eastern woodland sedge (*Carex blanda*).

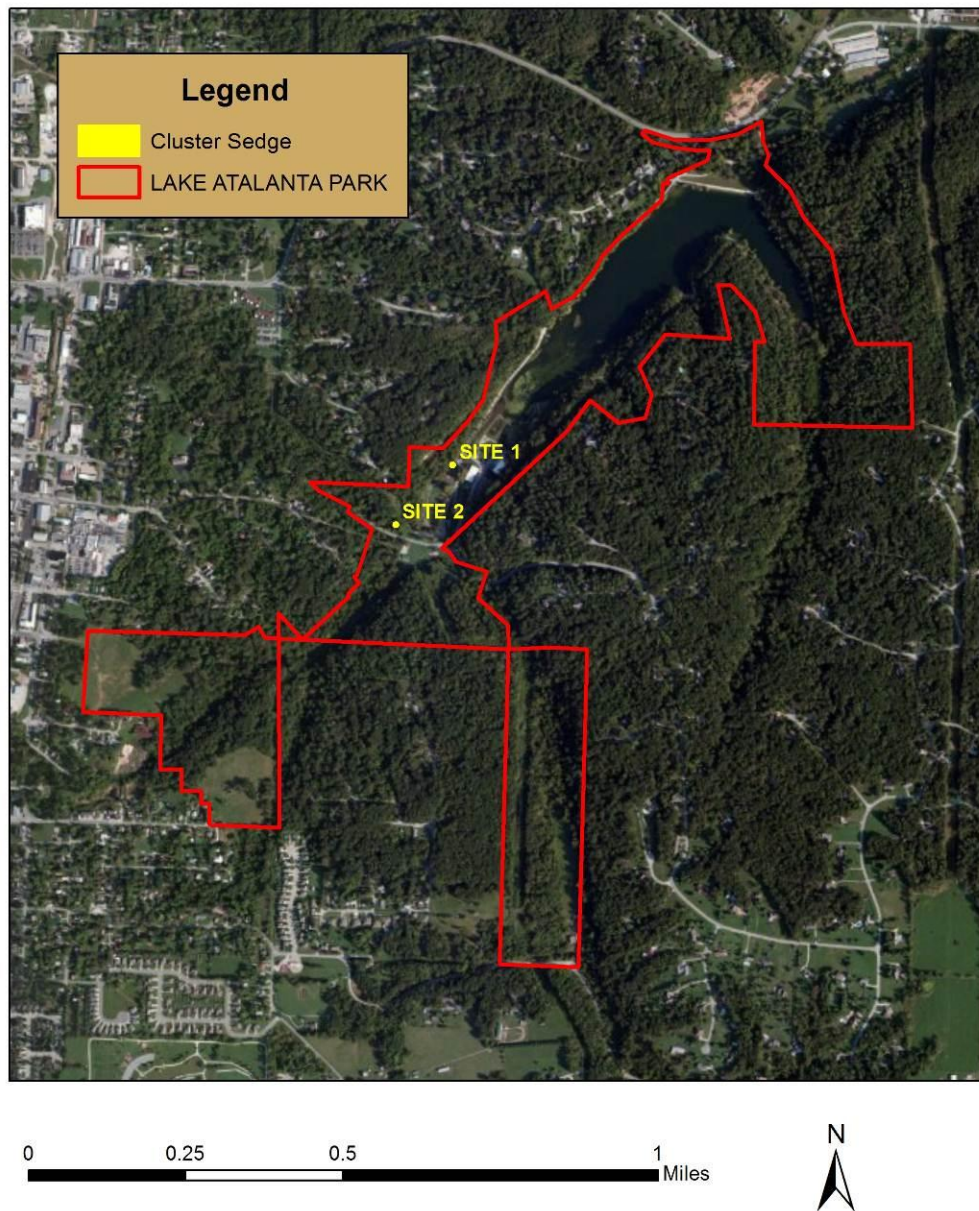


FIGURE 5. Map showing location of Cluster Sedge at Lake Atalanta Park. Map by Theo Witsell, ANHC, 2014.

Prairie White Trout Lily (*Erythronium mesochoreum*) – G4G5S1S2

This Midwestern prairie species is a rare species of glades, barrens, and upland prairies in Arkansas. It is distinguished from the common white trout lily (*Erythronium albidum*) by its folded leaves, its tendency to occur singly (rather than form dense colonies), its fruit that lay on the ground, and its preference for dry open habitat.

Site #1: Centrum = 36.34030, -94.09478

This species was observed on 17 April 2014 scattered in a limestone glade and adjacent rocky woodland at the downhill edge of a powerline right-of-way east of the Lake Atalanta dam. Associate species include wiry witch grass (*Panicum flexile*), side-oats grama (*Bouteloua curtipendula*), little bluestem (*Schizachyrium scoparium*), widow's-cross (*Sedum pulchellum*), purple-stem cliff-brake (*Pellaea atropurpurea*), three-flower melic grass (*Melica nitens*), and eastern red-cedar (*Juniperus virginiana*), growing under chinquapin oak (*Quercus muehlenbergii*), white ash (*Fraxinus americana*), winged elm (*Ulmus alata*), dwarf hackberry (*Celtis tenuifolia*), and eastern redbud (*Cercis canadensis*).

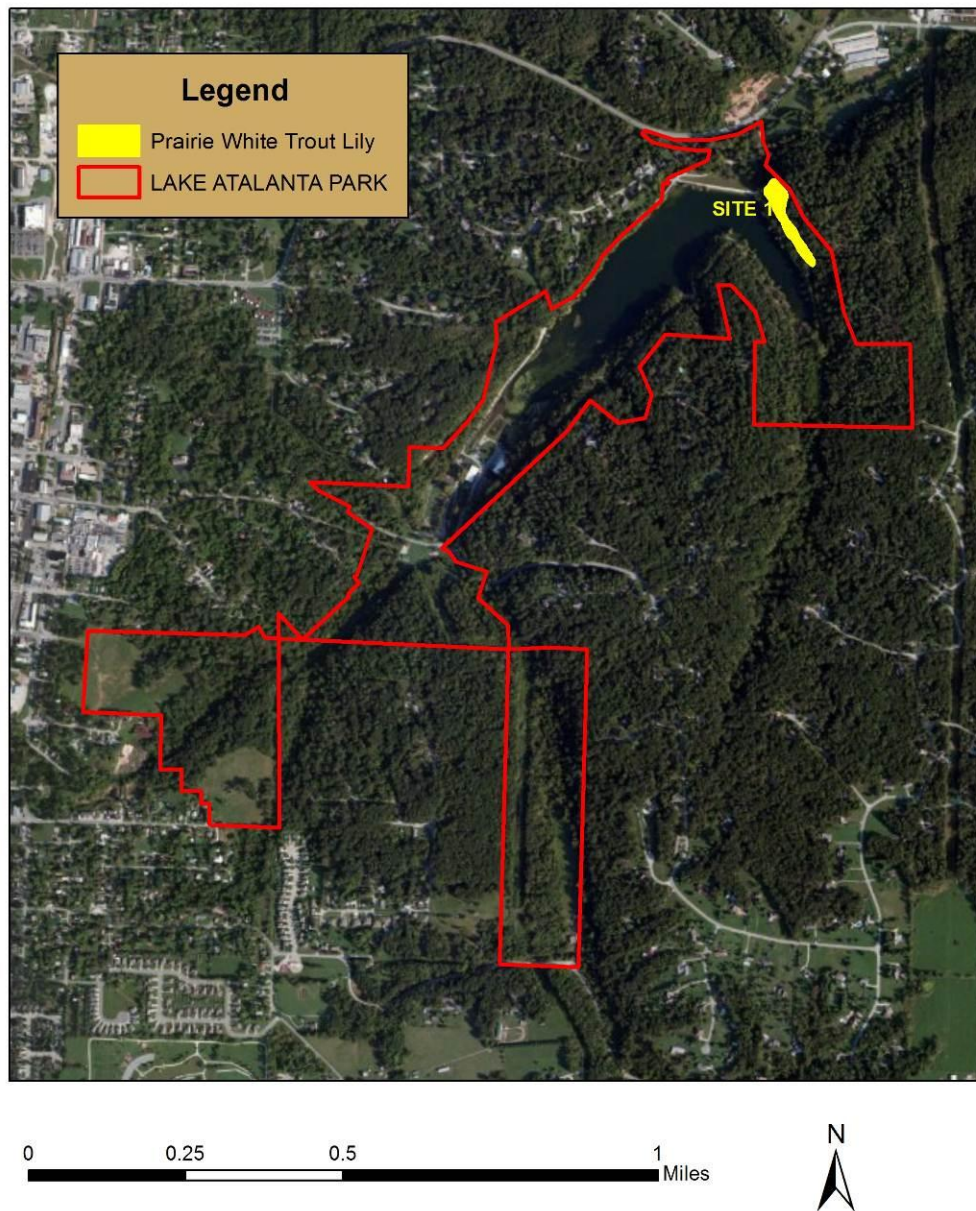


FIGURE 6. Map showing location of Prairie White Trout Lily at Lake Atalanta Park. Map by Theo Witsell, ANHC, 2014.

Ozark Trillium (*Trillium ozarkanum*) – G3S3

Ozark trillium is found only in the Ozark Plateau and Ouachita Mountains of Arkansas, Missouri, and Oklahoma and is a species of conservation concern in all of these states. It is typically found in acidic woodlands on chert substrates and is one of the first woodland wildflowers to bloom in spring, beginning to flower in early March in some years. In addition to the population reported in the 2013 ANHC report (Site 1 below), two additional populations were discovered in the park in 2014.

SITE 1: Centrum = 36.32871, -94.10900

More than 1,000 plants were observed on 16 April 2014 with more than 200 in flower. Habitat is an open, northwest-facing dry-mesic forest on chert substrate, dominated by white oak (*Quercus alba*) and black oak (*Quercus velutina*). Associate species include Oriental bittersweet (*Celastrus orbiculatus*), mayapple (*Podophyllum peltatum*), spicebush (*Lindera benzoin*), Virginia-creeper (*Parthenocissus quinquefolia*), and sassafras (*Sassafras albidum*). This population was previously known to exist, but the size and extent were not previously documented. The extent of this population was mapped with a GPS unit and is provided below.

SITE 2: Centrum = 36.32678, -94.10115

30 - 40 sterile (non-flowering) plants were observed on 18 April 2014 on the uphill side of a recently installed trail. This area had been recently burned, and plants were only identifiable in a small area above the trail that did not burn. It is likely that there are more Ozark Trillium plants in this area. Habitat is an east-facing dry-mesic forest on chert substrate, dominated by white oak (*Quercus alba*) and black oak (*Quercus velutina*). Associate species include burning-bush (*Euonymus alatus*), box elder (*Acer negundo*), woolly blue violet (*Viola sororia*), carrion-flower (*Smilax pulverulenta*), May-apple (*Podophyllum peltatum*), multiflora rose (*Rosa multiflora*), rock buttercup (*Ranunculus micranthus*), bloodroot (*Sanguinaria canadensis*), and rue-anemone (*Thalictrum thalictroides*).

SITE 3: Centrum = 36.32476, -94.10116

75+ sterile (non-flowering) plants and a single flowering plant were observed on 18 April 2014 on both sides of a recently installed trail in an area of switchbacks. Habitat is an east-facing dry-mesic forest on chert substrate, dominated by white oak (*Quercus alba*) and black oak (*Quercus velutina*). Associate species include Japanese honeysuckle (*Lonicera japonica*), spicebush (*Lindera benzoin*), coral-berry (*Symphoricarpos orbiculatus*), rusty blackhaw (*Viburnum rufidulum*), burning-bush (*Euonymus alatus*), flowering dogwood (*Cornus florida*), and multiflora rose (*Rosa multiflora*).

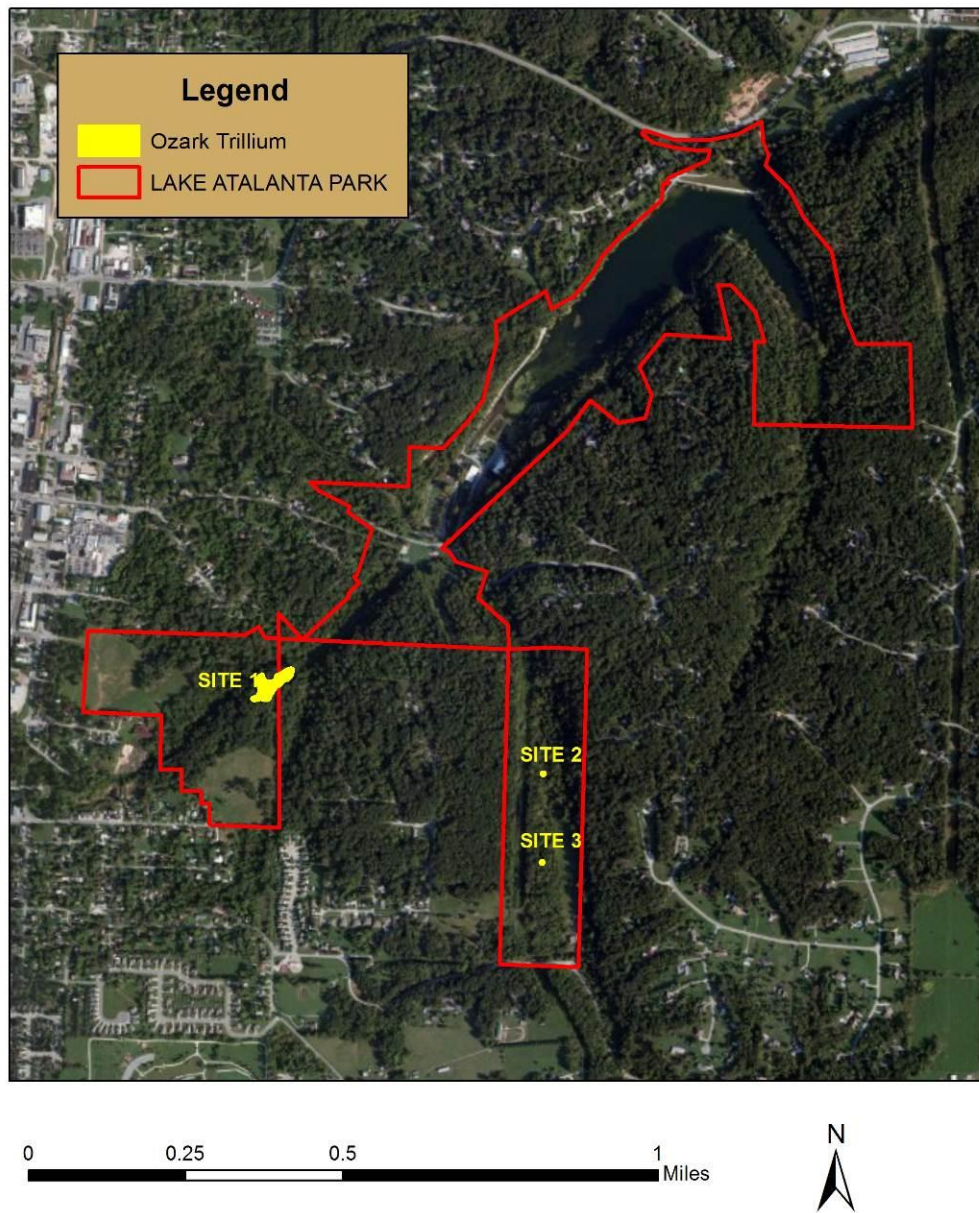


FIGURE 7. Map showing location of Ozark Trillium at Lake Atalanta Park. Map by Theo Witsell, ANHC, 2014.

APPENDIX C: CONSERVATION STATUS CODE/RANK LEGEND

DEFINITION OF RANKS

GLOBAL RANKS

G1	=	Critically Imperiled Globally. At a very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
G2	=	Imperiled Globally. At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
G3	=	Vulnerable Globally. At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
G4	=	Apparently Secure Globally. Uncommon but not rare; some cause for long-term concern due to declines or other factors.
G5	=	Secure Globally. Common, widespread and abundant.
GH	=	Of Historical Occurrence, Possibly Extinct Globally. Missing; known from only historical occurrences, but still some hope of rediscovery.
GU	=	Unrankable. Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.
GX	=	Presumed Extinct Globally. Not located despite intensive searches and virtually no likelihood of rediscovery.
GNR	=	Unranked. The global rank not yet assessed.
GNA	=	Not Applicable. A conservation status rank is not applicable.
T-Ranks	=	T subranks are given to global ranks when a subspecies, variety, or race is considered at the state level. The subrank consists of a "T" plus a number or letter (1, 2, 3, 4, 5, H, U, X) with the same ranking rules as a full species.

STATE RANKS

S1	=	Critically Imperiled in the State. At a very high risk of extirpation due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.
S2	=	Imperiled in the State. At high risk of extirpation due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors.
S3	=	Vulnerable in the State. At moderate risk of extirpation due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors.
S4	=	Apparently Secure in the State. Uncommon but not rare; some cause for long-term concern due to declines or other factors.
S5	=	Secure in the State. Common, widespread and abundant.
SH	=	Of Historical Occurrence, with Some Possibility of Rediscovery. Its presence may not have been verified in the past 20 - 40 years. A species may be assigned this rank without the 20 - 40 year delay if the only known occurrences were destroyed or if it had been extensively and unsuccessfully sought.
SU	=	Unrankable. Currently unrankable due to lack of information or due to substantially conflicting information about status or trends.

SX = **Presumed Extirpated from the State.** Not located despite intensive searches and virtually no likelihood of rediscovery.

SNR = **Unranked.** The state rank not yet assessed.

SNA = **Not Applicable.** A conservation status rank is not applicable.

GENERAL RANKING NOTES

Q = A “Q” in the global rank indicates the element’s taxonomic classification as a species is a matter of conjecture among scientists.

Ranges = Ranges are used to indicate a range of uncertainty about the status of the element.

? = A question mark is used to denote an inexact numeric rank.

**APPENDIX D: UPDATED LIST OF PLANT SPECIES FOUND AT
LAKE ATALANTA PARK**

Annotated Checklist of Vascular Plant Taxa Documented at Lake Atalanta Park

Nomenclature according to Gentry et al., eds. 2013. *Atlas of the Vascular Plants of Arkansas*.

Scientific Name*	Common Name	Growth Form	Habitat(s)	Source	Voucher	Herbarium
<i>Acalypha monococca</i>	one-seed mercury	Forb	A,B	1		
<i>Acalypha ostryifolia</i>	hop-hornbeam copperleaf	Forb	G,H	1		
<i>Acalypha rhomboidea</i>	rhombic copperleaf	Forb	D,H,F	1		
<i>Acalypha virginica</i>	Virginia copperleaf	Forb	A,B,F,G,H	1		
<i>Acer ginnala</i>	Amur maple	Tree	H	5		
<i>Acer negundo</i>	box elder	Tree	D,G,H	1		
<i>Acer rubrum</i>	red maple	Tree	C,D,F	1		
<i>Acer saccharum</i>	sugar maple	Tree	C	6		
<i>Actaea racemosa</i>	black cohosh	Forb	C	2		
<i>Adiantum pedatum</i>	northern maidenhair fern	Fern or Fern Ally	C,D	1		
<i>Aesculus pavia</i>	red buckeye	Shrub	C,D	6		
<i>Agalinis gattereri</i>	Gatterer's false foxglove	Forb	B	1		
<i>Agastache nepetoides</i>	yellow giant-hyssop	Forb	C,D	5		
<i>Ageratina altissima</i>	white snakeroot	Forb	C,D,H	1		
<i>Agrimonia cf. pubescens</i>	agrimony	Forb	C,D	1		
<i>Agrimonia parviflora</i>	agrimony	Forb	G	1		
<i>Agrostis gigantea</i>	redtop	Graminoid	G,H	1		
<i>Agrostis perennans</i>	autumn bent grass	Graminoid	B,C,D,H	1		
<i>Ailanthus altissima</i>	tree-of-heaven	Tree	A,B,C,D,G,H	1		
<i>Albizia julibrissin</i>	mimosa	Tree	G,F,G,H	1		
<i>Allium canadense</i> var. <i>canadense</i>	wild onion	Forb	D,G,H	6		
<i>Allium vineale</i>	field garlic	Forb	D,F,G,H	1		
<i>Ambrosia artemisiifolia</i>	common ragweed	Forb	A,D,F,G,H	1		
<i>Ambrosia trifida</i>	giant ragweed	Forb	D,F,G,H	1		
<i>Amelanchier arborea</i>	downy service-berry	Tree	B,D	1		
<i>Ampelopsis cordata</i>	false grape	Woody Vine	D,E,F,G	1		
<i>Amphicarpaea bracteata</i>	hog-peanut	Forb	B,C,D,H	1		
<i>Amsonia tabernaemontana</i>	eastern bluestar	Forb	C,D	5		
<i>Andropogon gerardii</i>	big bluestem	Graminoid	A,B,F	1		
<i>Andropogon virginicus</i>	broomsedge	Graminoid	A,B,F,G,H	1		
<i>Anemone virginiana</i>	thimbleweed	Forb	A,C,F	1		
<i>Angelica venenosa</i>	hairy angelica	Forb	B,C	1		
<i>Antennaria parlinii</i>	pussytoes	Forb	B	1		
<i>Apios americana</i>	groundnut		D,E,F	1		
<i>Apocynum cannabinum</i>	dogbane	Forb	F,G,H	1		
<i>Arctium minus</i>	common burdock	Forb	D,G,H	1		
<i>Arenaria serpyllifolia</i>	sandwort	Forb	G,H	6		
<i>Arisaema triphyllum</i>	Jack-in-the-pulpit	Forb	C,D	4		
<i>Aristida purpurascens</i>	arrow-feather three-awn	Graminoid	A,B	2		
<i>Aristolochia serpentaria</i>	Virginia snakeroot	Forb	B,C	1		
<i>Arnoglossum plantagineum</i>	Indian-plantain	Forb	A	5		

Scientific Name*	Common Name	Growth Form	Habitat(s)	Source	Voucher	Herbarium
<i>Artemisia annua</i>	sweet wormwood	Forb	G,H	1		
<i>Arthraxon hispidus</i>	small carp grass	Graminoid	E,F,G,H	1		
<i>Aruncus dioicus</i>	goat's-beard	Forb	C,D	1		
<i>Asarum canadense</i> var. <i>acuminatum</i>	taper-tip wild ginger	Forb	C,D	5		
<i>Asarum canadense</i> var. <i>reflexum</i>	wild ginger	Forb	C	5		
<i>Asclepias purpurascens</i>	purple milkweed	Forb	A,C	1		
<i>Asclepias quadrifolia</i>	four-leaf milkweed	Forb	B,C	3		
<i>Asclepias tuberosa</i> subsp. <i>interior</i>	butterfly milkweed	Forb	A,B	1		
<i>Asclepias verticillata</i>	whorled milkweed	Forb	A	1		
<i>Asclepias viridiflora</i>	green-flower milkweed	Forb	A	1		
<i>Asimina triloba</i>	pawpaw		C,D	1		
<i>Asplenium platyneuron</i>	ebony spleenwort	Fern or Fern Ally	B,C,D	1		
<i>Aureolaria grandiflora</i>	yellow false foxglove	Forb	A,B	1		
<i>Baptisia bracteata</i>	cream wild indigo	Forb	B	5		
<i>Barbarea vulgaris</i>	yellow-rocket	Forb	G,H	4		
<i>Berberis bealei</i>	mahonia	Shrub	A,C,H	1		
<i>Berberis thunbergii</i>	Japanese barberry	Shrub	C,G	5		
<i>Bidens bipinnata</i>	Spanish-needles	Forb	H	1		
<i>Bidens frondosa</i>	beggar-ticks	Forb	E,F	1		
<i>Blephilia ciliata</i>	downy wood mint	Forb	C	6		
<i>Boechera canadensis</i>	Canadian rockcress	Forb	A	5		
<i>Boechera laevigata</i>	smooth rockcress	Forb	C	6		
<i>Boehmeria cylindrica</i>	false nettle	Forb	D,E,F	1		
<i>Botrychium dissectum</i>	cut-leaf grape fern	Fern or Fern Ally	C,D	1		
<i>Botrychium virginianum</i>	rattlesnake fern	Fern or Fern Ally	C,D	1		
<i>Bouteloua curtipendula</i>	side-oats grama	Graminoid	A	1		
<i>Brachyelytrum erectum</i>	bearded shorthusk	Graminoid	C,D	1		
<i>Brickellia eupatorioides</i>	false boneset	Forb	A,B	1		
<i>Bromus catharticus</i>	rescue grass	Graminoid	G,H	1		
<i>Bromus japonicus</i>	Japanese brome	Graminoid	H	6		
<i>Bromus pubescens</i>	hairy woodland brome	Graminoid	C,D	1		
<i>Bromus racemosus</i>	bald brome	Graminoid	H	6		
<i>Bromus sterilis</i>	poverty brome	Graminoid	G,H	6		
<i>Bromus tectorum</i>	cheat grass	Graminoid	G,H	6		
<i>Callirhoe digitata</i>	winecup	Forb	A	1		
<i>Calystegia sepium</i>	hedge bindweed	Herbaceous Vine	D,E,F,H	2		
<i>Camassia scilloides</i>	wild hyacinth	Forb	A	6		
<i>Campanula americana</i>	tall bellflower	Forb	C,D	1		
<i>Campsis radicans</i>	trumpet-creeper	Woody Vine	B,D,F,G,H	1		
<i>Capsella bursa-pastoris</i>	shepherd's-purse	Forb	G,H	4		
<i>Cardamine hirsuta</i>	hairy bittercress	Forb	A,C,D,G,H	6		
<i>Cardamine parviflora</i> var. <i>arenicola</i>	small-flower bittercress	Forb	D	6		
<i>Carduus nutans</i>	musk thistle	Forb	G,H	6		
<i>Carex aggregata</i>	cluster sedge	Graminoid	D,E,G	6		
<i>Carex albicans</i> var. <i>albicans</i>	sedge	Graminoid	A	1		

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<i>Carex amphibola</i>	sedge	Graminoid	D,E,G	6		
<i>Carex annectens</i>	sedge	Graminoid	G	2		
<i>Carex aureolensis</i>	sedge	Graminoid	D,E,F	1		
<i>Carex blanda</i>	sedge	Graminoid	A,B,C,D,E,F,G	6		
<i>Carex flaccosperma</i>	blue sedge	Graminoid	D,E,G	1		
<i>Carex frankii</i>	Frank's sedge	Graminoid	F	2		
<i>Carex granularis</i>	sedge	Graminoid	E	6		
<i>Carex grisea</i>	sedge	Graminoid	D,E	6		
<i>Carex jamesii</i>	James' sedge	Graminoid	C	6		
<i>Carex leavenworthii</i>	Leavenworth's sedge	Graminoid	D,G,H	6		
<i>Carex lurida</i>	sedge	Graminoid	E,F	2		
<i>Carex muehlenbergii</i> var. <i>enervis</i>	Muhlenberg's sedge	Graminoid	B	1		
<i>Carex nigromarginata</i>	sedge	Graminoid	B	1		
<i>Carex retroflexa</i>	sedge	Graminoid	B,D,G	6		
<i>Carex texensis</i>	Texas sedge	Graminoid	E,G	6		
<i>Carex vulpinoidea</i>	fox sedge	Graminoid	E,F	2		
<i>Carpinus caroliniana</i>	musclewood	Tree	C,D	6		
<i>Carya alba</i>	mockernut hickory	Tree	A,B,C	1		
<i>Carya cordiformis</i>	bitternut hickory	Tree	C,D	1		
<i>Carya ovata</i>	shagbark hickory	Tree	A,C,D	1		
<i>Carya texana</i>	black hickory	Tree	B	1		
<i>Castanea pumila</i> var. <i>ozarkensis</i>	Ozark chinquapin	Tree	B	2		
<i>Catalpa</i>	catalpa	Tree	G,H	1		
<i>Ceanothus americanus</i>	New Jersey-tea	Shrub	A,B	1		
<i>Celastrus orbiculatus</i>	Oriental bittersweet		A,B,C,D,E,F,G,H	1		
<i>Celastrus scandens</i>	American bittersweet		A,B	3		
<i>Celtis occidentalis</i>	hackberry	Tree	C,D,H	1		
<i>Celtis tenuifolia</i>	dwarf hackberry	Tree	A	1		
<i>Centaurea stoebe</i> subsp. <i>micranthos</i>	spotted knapweed	Forb	G,H	1		
<i>Cerastium glomeratum</i>	sticky mouse-ear chickweed	Forb	G,H	6		
<i>Cercis canadensis</i> var. <i>canadensis</i>	eastern redbud	Tree	A,C,D,F,H	1		
<i>Chaerophyllum procumbens</i>	spreading chervil	Forb	C,D	4		
<i>Chaerophyllum tainturieri</i>	wild chervil	Forb	D,G	6		
<i>Chamaecrista fasciculata</i> var. <i>fasciculata</i>	showy partridge-pea	Forb	G,H	1		
<i>Chamaecrista nictitans</i> var. <i>nictitans</i>	sensitive partridge-pea	Forb	F,H	2		
<i>Chasmanthium latifolium</i>	river-oats	Graminoid	C,D	1		
<i>Chenopodium missouriense</i>	Missouri lamb's-quarters	Forb	H	1		
<i>Cinna arundinacea</i>	stout wood-reed	Graminoid	D	1		
<i>Circaea canadensis</i> subsp. <i>canadensis</i>	enchanter's-nightshade	Forb	C,D	1		
<i>Cirsium altissimum</i>	tall thistle	Forb	A,B,F,H	1		
<i>Claytonia virginica</i>	spring-beauty	Forb	A,B,C,D,H	6		
<i>Clematis catesbyana</i>	Catesby's virgin's-bower		B,D,F	2		
<i>Clematis terniflora</i>	sweet autumn virgin's-bower		A,C,D,H	1		
<i>Clematis versicolor</i>	pale leather-flower		A	1		
<i>Cocculus carolinus</i>	Carolina snailseed	Woody Vine	C,D,F,G,H	1		

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<i>Comandra umbellata</i>	bastard-toadflax	Forb	B	1		
<i>Commelina communis</i>	Asiatic dayflower	Forb	D,E,F,G,H	1		
<i>Commelina diffusa</i>	spreading dayflower	Forb	F	1		
<i>Conium maculatum</i>	poison-hemlock	Forb	D,E,F,G,H	1		
<i>Conyza canadensis</i>	horseweed	Forb	A,F,G,H	1		
<i>Conyza ramosissima</i>	dwarf fleabane	Forb	H	1		
<i>Coreopsis palmata</i>	tickseed	Forb	A,B	1		
<i>Coreopsis pubescens</i>	star tickseed	Forb	B	1		
<i>Coreopsis tripteris</i>	tall tickseed	Forb	A	1		
<i>Cornus cf. racemosa</i>	gray dogwood		A	1		
<i>Cornus drummondii</i>	rough-leaf dogwood		A,D,G	1		
<i>Cornus florida</i>	flowering dogwood	Tree	B,C,D	1		
<i>Corydalis flavula</i>	pale corydalis	Forb	C	6		
<i>Corylus americana</i>	hazelnut	Shrub	B,C,D	1		
<i>Crataegus crus-galli</i>	cockspur hawthorn		B	1		
<i>Croton capitatus</i>	woolly croton	Forb	H	6		
<i>Croton monanthogynus</i>	prairie-tea	Forb	A	1		
<i>Cruciata pedemontana</i>	Piedmont bedstraw	Forb	G,H	6		
<i>Cryptotaenia canadensis</i>	honestwort	Forb	C,D	1		
<i>Cunila origanoides</i>	dittany	Forb	B	1		
<i>Cuphea viscosissima</i>	blue waxweed	Forb	A	1		
<i>Cuscuta cuspidata</i>	cuspid dodder	Herbaceous Vine	E,F	1		
<i>Cynanchum laeve</i>	sandvine	Herbaceous Vine	F,H	1		
<i>Cynodon dactylon</i>	Bermuda grass	Graminoid	G,H	1		
<i>Cynoglossum virginianum</i>	wild comfrey	Forb	C	6		
<i>Cyperus bipartitus</i>	flatsedge	Graminoid	F	1		
<i>Cyperus echinatus</i>	globe flatsedge	Graminoid	B,G,H	1		
<i>Cyperus esculentus</i>	yellow nutsedge	Graminoid	F	1		
<i>Cyperus flavescens</i>	yellow flatsedge	Graminoid	F	1		
<i>Cyperus odoratus</i>	rusty flatsedge	Graminoid	F	2		
<i>Cyperus strigosus</i>	false nutsedge	Graminoid	F,G	1		
<i>Cypripedium parviflorum</i>	yellow lady's-slipper	Forb	C	6		
<i>Cystopteris protrusa</i>	southern bladder fern	Fern or Fern Ally	C	1		
<i>Dactylis glomerata</i>	orchard grass	Graminoid	G,H	1		
<i>Dalea candida</i>	white prairie-clover	Forb	A	1		
<i>Dalea purpurea</i>	purple prairie-clover	Forb	A	1		
<i>Danthonia spicata</i>	poverty oat grass	Graminoid	B	1		
<i>Dasistoma macrophylla</i>	mullein-foxtail	Forb	A,D	5		
<i>Daucus carota</i>	Queen Anne's-lace	Forb	G,H	1		
<i>Desmodium cuspidatum</i>	tick-trefoil	Forb	B,C	1		
<i>Desmodium glutinosum</i>	tick-trefoil	Forb	B,C,D	1		
<i>Desmodium marilandicum</i>	tick-trefoil	Forb	B	1		
<i>Desmodium nudiflorum</i>	naked-flower tick-trefoil	Forb	B	1		
<i>Desmodium nuttallii</i>	Nuttall's tick-trefoil	Forb	B	1		
<i>Desmodium obtusum</i>	tick-trefoil	Forb	F,G,H	1		

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<i>Desmodium paniculatum</i>	panicked tick-trefoil	Forb	B,F	1		
<i>Desmodium pauciflorum</i>	few-flower tick-trefoil	Forb	C,D	1		
<i>Desmodium perplexum</i>	tick-trefoil	Forb	B	1		
<i>Dicentra cucullaria</i>	Dutchman's-breeches	Forb	C	6		
<i>Dichanthelium aciculare</i>	narrow-leaf rosette grass	Graminoid	A	1		
<i>Dichanthelium acuminatum</i>	hairy rosette grass	Graminoid	A	1		
<i>Dichanthelium boscii</i>	Bosc's rosette grass	Graminoid	B	1		
<i>Dichanthelium clandestinum</i>	deer-tongue rosette grass	Graminoid	D,E,F	1		
<i>Dichanthelium commutatum</i>	variable rosette grass	Graminoid	B	1		
<i>Dichanthelium dichotomum</i>	forked rosette grass	Graminoid	B	1		
<i>Dichanthelium laxiflorum</i>	open-flower rosette grass	Graminoid	B	1		
<i>Dichanthelium linearifolium</i>	slim-leaf rosette grass	Graminoid	A,B	6		
<i>Dichanthelium malacophyllum</i>	soft-leaf rosette grass	Graminoid	A,B	1		
<i>Dichanthelium oligosanthes subsp. scribnerianum</i>	Scribner's rosette grass	Graminoid	A	1		
<i>Dicliptera brachiata</i>	dicliptera	Forb	C,D	1		
<i>Digitaria</i>	digitaria	Graminoid	F,G,H	1		
<i>Diodia teres</i>	poor-Joe	Forb	A,B,F,G,H	1		
<i>Diodia virginiana</i>	Virginia buttonweed	Forb	E,F,H	1		
<i>Dioscorea polystachya</i>	cinnamon vine		C,D,E,F,G,H	1		
<i>Dioscorea villosa</i>	wild yam	Herbaceous Vine	A,B,C	1		
<i>Diospyros virginiana</i>	persimmon	Tree	A,B,C,D,E,F,G,H	1		
<i>Duchesnea indica</i>	Indian-strawberry	Forb	F,H	2		
<i>Echinacea pallida</i>	pale purple coneflower	Forb	A	1		
<i>Echinochloa crusgalli</i>	barnyard grass	Graminoid	E,F	1		
<i>Eclipta prostrata</i>	false daisy	Forb	E,F	1		
<i>Elaeagnus umbellata</i>	autumn-olive	Shrub	B,G,H	1		
<i>Eleocharis</i>	spike-rush	Graminoid	F	1		
<i>Elephantopus carolinianus</i>	Carolina elephant's-foot	Forb	A,C,D,G	1		
<i>Eleusine indica</i>	goose grass	Graminoid	F,G,H	1		
<i>Elymus churchii</i>	Church's wild rye	Graminoid	A	1		
<i>Elymus glabriflorus</i>	southeastern wild rye	Graminoid	B,G,H	1		
<i>Elymus hystrix</i>	bottle-brush grass	Graminoid	C,D	1		
<i>Elymus macgregorii</i>	early wild rye	Graminoid	C,D,E,F,G	6		
<i>Elymus villosus</i>	hairy wild rye	Graminoid	D	1		
<i>Elymus virginicus</i>	Virginia wild rye	Graminoid	C,D,G	1		
<i>Equisetum hyemale</i>	common scouring-rush	Fern or Fern Ally	D,E,F	1		
<i>Eragrostis hirsuta</i>	big-top love grass	Graminoid	A	1		
<i>Eragrostis intermedia</i>	plains love grass	Graminoid	A,H	1		
<i>Eragrostis pilosa</i>	Indian love grass	Graminoid	H	1		
<i>Erechtites hieraciifolius</i>	fireweed	Forb	H	1		
<i>Erigeron annuus</i>	daisy fleabane	Forb	G,H	1		
<i>Erigeron philadelphicus</i>	Philadelphia fleabane	Forb	D,G,H	1		
<i>Erigeron pulchellus</i>	Robin's-plantain	Forb	A,C	1		
<i>Erigeron strigosus</i>	daisy fleabane	Forb	A,G	6		
<i>Eryngium yuccifolium</i>	rattlesnake-master	Forb	B	1		

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<i>Erythronium mesochoreum</i>	prairie trout-lily	Forb	A	6		
<i>Euonymus alatus</i>	burning-bush	Shrub	B,C,D,H	1		
<i>Euonymus atropurpureus</i>	wahoo		A,F	1		
<i>Euonymus fortunei</i>	winter-creeper	Woody Vine	C,D	1		
<i>Eupatorium altissimum</i>	tall thoroughwort	Forb	A,B	1		
<i>Eupatorium serotinum</i>	late boneset	Forb	D,E,F,G,H	1		
<i>Euphorbia corollata</i>	flowering spurge	Forb	A,B	1		
<i>Euphorbia dentata</i>	toothed spurge	Forb	A,H	1		
<i>Euphorbia maculata</i>	spotted spurge	Forb	F,G,H	1		
<i>Euphorbia nutans</i>	nodding spurge	Forb	A,F,H	1		
<i>Eutrochium purpureum</i>	Joe-pye-weed	Forb	C	6		
<i>Fallopia scandens</i>	climbing false buckwheat		D,E,F	1		
<i>Festuca subverticillata</i>	nodding fescue	Graminoid	C,D	6		
<i>Fleischmannia incarnata</i>	pink thoroughwort	Forb	C,D,E,F,G	2		
<i>Forsythia suspensa</i>	weeping forsythia	Shrub	C,H	2		
<i>Fragaria virginiana</i>	wild strawberry	Forb	A	1		
<i>Frangula caroliniana</i>	Carolina buckthorn		A,B,C	1		
<i>Fraxinus americana</i>	white ash	Tree	A,B,C	1		
<i>Galactia volubilis</i>	downy milk-pea	Herbaceous Vine	A,B	1		
<i>Galium aparine</i>	cleavers	Forb	C,D,E,G	1		
<i>Galium arkansanum</i> var. <i>arkansanum</i>	Arkansas bedstraw	Forb	B	1		
<i>Galium circaeazans</i>	wild licorice	Forb	B,D	1		
<i>Galium concinnum</i>	shining bedstraw	Forb	B,C	1		
<i>Galium triflorum</i>	sweet-scent bedstraw	Forb	C,D	1		
<i>Gamochaeta</i>	cudweed	Forb	G,H	6		
<i>Gaura longiflora</i>	biennial gaura		A,H	1		
<i>Gentiana alba</i>	pale gentian	Forb	A,C,F	1		
<i>Geranium carolinianum</i>	Carolina crane's-bill	Forb	D,G	6		
<i>Geranium maculatum</i>	wild geranium	Forb	C,D	4		
<i>Geranium molle</i>	dove's-foot crane's-bill	Forb	F,H	4		
<i>Geum canadense</i>	white avens	Forb	D	1		
<i>Geum vernum</i>	spring avens	Forb	D,E	1		
<i>Glechoma hederacea</i>	ground-ivy		D,G,H	1		
<i>Gleditsia triacanthos</i>	honey locust	Tree	G	6		
<i>Glyceria striata</i>	fowl manna grass	Graminoid	E	1		
<i>Hackelia virginiana</i>	beggar's-lice	Forb	C,D	1		
<i>Hedera helix</i>	English ivy	Woody Vine	D	6		
<i>Helenium flexuosum</i>	purple-head sneezeweed	Forb	E,F	6		
<i>Helianthus divaricatus</i>	woodland sunflower	Forb	B	1		
<i>Helianthus hirsutus</i>	hairy woodland sunflower	Forb	A,B	1		
<i>Helianthus tuberosus</i>	Jerusalem artichoke	Forb	D,F,H	1		
<i>Heliopsis helianthoides</i>	ox-eye	Forb	A	1		
<i>Hemerocallis fulva</i>	orange day-lily	Forb	B,G,H	1		
<i>Heuchera americana</i>	American alumroot	Forb	C	6		
<i>Hibiscus syriacus</i>	rose-of-Sharon		G,H	2		

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<i>Hieracium gronovii</i>	hawkweed	Forb	B	1		
<i>Houstonia nigricans</i>	diamond-flower	Forb	A	1		
<i>Houstonia purpurea</i> var. <i>purpurea</i>	mountain houstonia	Forb	C,D	1		
<i>Houstonia pusilla</i>	star-violet	Forb	G	6		
<i>Houttuynia cordata</i>	chameleon	Forb	E	1		
<i>Hybanthus concolor</i>	green-violet	Forb	C	6		
<i>Hydrangea arborescens</i>	wild hydrangea	Shrub	C,F	1		
<i>Hydrophyllum virginianum</i>	Virginia waterleaf	Forb	C,D	1		
<i>Hypericum hypericoides</i> subsp. <i>multicaule</i>	St. Andrew's-cross	Shrub	B	1		
<i>Hypericum pseudomaculatum</i>	false spotted St. John's-wort	Forb	A	1		
<i>Hypericum sphaerocarpum</i>	round-fruit St. John's-wort		A	1		
<i>Hypoxis hirsuta</i>	yellow star-grass	Forb	A	6		
<i>Ilex aquifolium</i>	English holly		B,C	1		
<i>Ilex decidua</i>	deciduous holly		A,C,D	1		
<i>Ilex opaca</i>	American holly		B,C	1		
<i>Impatiens capensis</i>	spotted jewelweed	Forb	D,E,F	1		
<i>Impatiens pallida</i>	yellow jewelweed	Forb	D,E	1		
<i>Ipomoea coccinea</i>	red morning-glory	Herbaceous Vine	H	1		
<i>Ipomoea lacunosa</i>	small white morning-glory	Herbaceous Vine	F,G,H	1		
<i>Ipomoea pandurata</i>	wild potato vine	Herbaceous Vine	F	1		
<i>Juglans nigra</i>	black walnut	Tree	A,B,C,D,G	1		
<i>Juncus effusus</i>	soft rush	Graminoid	F	6		
<i>Juncus secundus</i>	rush	Graminoid	A,F	1		
<i>Juncus tenuis</i>	path rush	Graminoid	F,G,H	1		
<i>Juniperus virginiana</i>	eastern red-cedar	Tree	A,C,D,F,G	1		
<i>Kickxia elatine</i>	cancerwort	Forb	F,G	1		
<i>Koeleruteria paniculata</i>	golden-rain-tree	Tree	C,D	1		
<i>Krigia biflora</i>	two-flower dwarf-dandelion	Forb	B,C	1		
<i>Kummerowia striata</i>	Japanese bush-clover	Forb	G,H	1		
<i>Kyllinga pumila</i>	spikesedge	Graminoid	F	1		
<i>Lactuca canadensis</i>	wild lettuce	Forb	B,G	6		
<i>Lactuca floridana</i>	Florida wild lettuce	Forb	D,F	1		
<i>Lactuca serriola</i>	prickly wild lettuce	Forb	H	6		
<i>Lamium purpureum</i>	purple dead-nettle	Forb	C,D,G,H	1		
<i>Laportea canadensis</i>	wood-nettle	Forb	C,D	1		
<i>Lathyrus latifolius</i>	everlasting-pea		G,H	1		
<i>Leersia oryzoides</i>	rice cut grass	Graminoid	E,F	1		
<i>Leersia virginica</i>	white grass	Graminoid	C,D,E,F	1		
<i>Lemna</i>	duckweed	Forb	F	1		
<i>Lepidium virginicum</i>	Virginia pepper-grass	Forb	G,H	6		
<i>Lespedeza cuneata</i>	sericea lespedeza	Forb	B,F,G,H	1		
<i>Lespedeza frutescens</i>	violet bush-clover	Forb	A,B	1		
<i>Lespedeza hirta</i>	hairy bush-clover	Forb	B	1		
<i>Lespedeza procumbens</i>	trailing bush-clover	Forb	B	1		
<i>Lespedeza violacea</i>	bush-clover	Forb	A,B	1		

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<i>Lespedeza virginica</i>	slender bush-clover	Forb	A,B	1		
<i>Leucanthemum vulgare</i>	ox-eye daisy	Forb	G,H	1		
<i>Leucospora multifida</i>	narrow-leaf paleseed	Forb	A,F	1		
<i>Liatris aspera</i>	rough blazing-star	Forb	B	1		
<i>Ligustrum sinense</i>	Chinese privet	Shrub	C,D,E,F,G,H	1		
<i>Lindera benzoin</i>	spicebush	Shrub	B,C,D,E	1		
<i>Lindernia dubia</i>	false pimpernel	Forb	F	1		
<i>Liriodendron tulipifera</i>	tulip-tree	Tree	A,B,C,G,H	1		
<i>Liriope spicata</i>	creeping lily-turf	Forb	B	1		
<i>Lithospermum canescens</i>	hoary puccoon	Forb	A	1		
<i>Lobelia siphilitica</i>	great blue lobelia	Forb	E,F	1		
<i>Lolium perenne</i>	rye grass	Graminoid	G,H	1		
<i>Lonicera japonica</i>	Japanese honeysuckle	Woody Vine	\\B,C,D,E,F,G,H	1		
<i>Lonicera maackii</i>	Amur honeysuckle	Shrub	A,C,D,G,H	1		
<i>Lonicera sempervirens</i>	trumpet honeysuckle	Woody Vine	A	1		
<i>Lycopus americanus</i>	American bugleweed	Forb	F	1		
<i>Lysimachia lanceolata</i>	yellow-loosestrife	Forb	A	1		
<i>Maclura pomifera</i>	Osage-orange	Tree	D,G	1		
<i>Maianthemum racemosum</i>	false Solomon's-seal	Forb	C	6		
<i>Matelea</i>	matelea		A,B,F	1		
<i>Medicago lupulina</i>	black medick	Forb	H	6		
<i>Melica nitens</i>	three-flower melic	Graminoid	A	1		
<i>Melilotus albus</i>	white sweet-clover	Forb	H	1		
<i>Melilotus officinalis</i>	yellow sweet-clover	Forb	G,H	6		
<i>Melothria pendula</i>	creeping-cucumber	Herbaceous Vine	C,D,F,H	1		
<i>Menispermum canadense</i>	moonseed		C,D	1		
<i>Mentha xpiiperita</i>	peppermint	Forb	E,F	1		
<i>Mentha spicata</i>	spearmint	Forb	E,G	1		
<i>Microstegium vimineum</i>	Japanese stilt grass	Graminoid	\\B,C,D,E,F,G,H	1		
<i>Mimosa quadrivalvis</i> var. <i>nuttallii</i>	sensitive-brier		A,B	1		
<i>Mimulus alatus</i>	monkey-flower	Forb	D,E,F	1		
<i>Mirabilis albida</i>	white four-o'clock	Forb	A	3		
<i>Mirabilis nyctaginea</i>	wild four-o'clock	Forb	H	3		
<i>Miscanthus sinensis</i>	Chinese silver grass	Graminoid	B,F	2		
<i>Monarda bradburiana</i>	Bradbury's beebalm	Forb	B	3		
<i>Monarda fistulosa</i>	beebalm	Forb	A,B	1		
<i>Monarda russeliana</i>	Russell's beebalm	Forb	A	3		
<i>Monotropa uniflora</i>	Indian-pipe	Forb	C	3		
<i>Morus alba</i>	white mulberry	Tree	F,G,H	2		
<i>Morus rubra</i>	red mulberry	Tree	C,D,F,G	1		
<i>Muhlenbergia capillaris</i>	hair-awn muhly	Graminoid	A	1		
<i>Muhlenbergia frondosa</i>	wire-stem muhly	Graminoid	E,F	1		
<i>Muhlenbergia schreberi</i>	nimblewill	Graminoid	B,D,F,G,H	1		
<i>Muhlenbergia sobolifera</i>	rock muhly	Graminoid	A,B,C	1		
<i>Muhlenbergia sylvatica</i>	woodland muhly	Graminoid	B,D,F	1		

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<i>Nandina domestica</i>	nandina	Shrub	B	2		
<i>Nasturtium officinale</i>	watercress	Forb	E	1		
<i>Nothoscordum bivalve</i>	crow-poison	Forb	A,B	1		
<i>Nyssa sylvatica</i>	black-gum	Tree	B,C	1		
<i>Oenanthe javanica</i>	Java water-dropwort	Forb	E	1		
<i>Oenothera biennis</i>	evening-primrose	Forb	E,F,G,H	1		
<i>Onosmodium bejariense</i> var. <i>subsetosum</i>	marbleseed	Forb	A	1		
<i>Ornithogalum umbellatum</i>	star-of-Bethlehem	Forb	G,H	6		
<i>Osmorhiza longistylis</i>	aniseroot	Forb	C,D	6		
<i>Ostrya virginiana</i>	hop-hornbeam	Tree	B,C,D,E	1		
<i>Oxalis dillenii</i>	yellow wood-sorrel	Forb	A,B,D,F,G,H	1		
<i>Oxalis stricta</i>	yellow wood-sorrel	Forb	C,D	1		
<i>Oxalis violacea</i>	violet wood-sorrel	Forb	A,B	1		
<i>Packera aurea</i>	golden ragwort	Forb	E	2		
<i>Panax quinquefolius</i>	ginseng	Forb	C	6		
<i>Panicum anceps</i>	beaked panic grass	Graminoid	A,F,G	1		
<i>Panicum capillare</i>	witch grass	Graminoid	H	1		
<i>Panicum flexile</i>	wiry witch grass	Graminoid	A	1		
<i>Panicum philadelphicum</i>	witch grass	Graminoid	A	1		
<i>Panicum virgatum</i>	switch grass	Graminoid	A	1		
<i>Parietaria pensylvanica</i>	pellitory	Forb	C,D,H	6		
<i>Parthenium integrifolium</i>	wild quinine	Forb	B	1		
<i>Parthenocissus quinquefolia</i>	Virginia-creeper	Woody Vine	B,C,D	1		
<i>Paspalum dilatatum</i>	Dallis grass	Graminoid	F,G,H	1		
<i>Paspalum floridanum</i>	Florida paspalum	Graminoid	E,F	1		
<i>Paspalum laeve</i>	field paspalum	Graminoid	E,F	1		
<i>Paspalum pubiflorum</i>	hairy-seed paspalum	Graminoid	F	1		
<i>Passiflora incarnata</i>	purple passion-flower	Herbaceous Vine	E,F,G,H	2		
<i>Passiflora lutea</i>	yellow passion-flower	Herbaceous Vine	A	1		
<i>Pellaea atropurpurea</i>	purple-stem cliff-brake	Fern or Fern Ally	A	1		
<i>Penstemon digitalis</i>	foxglove beardtongue	Forb	A,B	3		
<i>Penstemon tubiflorus</i>	beardtongue	Forb	A	1		
<i>Perilla frutescens</i>	beefsteak-plant	Forb	B,C,D,E,F,G,H	1		
<i>Persicaria hydropiper</i>	water-pepper	Forb	E,F	1		
<i>Persicaria hydropiperoides</i>	swamp smartweed	Forb	E,F	1		
<i>Persicaria longiseta</i>	bristly lady's-thumb	Forb	C,D,E,F,G,H	1		
<i>Persicaria pensylvanica</i>	pink smartweed	Forb	D,E,F,H	1		
<i>Persicaria punctata</i>	dotted smartweed	Forb	D,E,F,H	1		
<i>Persicaria virginiana</i>	jumpseed	Forb	C,D	1		
<i>Phalaris arundinacea</i>	reed canary grass	Graminoid	E	1		
<i>Phaseolus polystachios</i>	wild bean	Herbaceous Vine	A,C,F	1		
<i>Phegopteris hexagonoptera</i>	broad beech fern	Fern or Fern Ally	C,D	1		
<i>Phlox divaricata</i> subsp. <i>laphamii</i>	wild blue phlox	Forb	C,D	1		
<i>Phlox paniculata</i>	perennial phlox	Forb	D	1		
<i>Phlox pilosa</i> subsp. <i>ozarkana</i>	Ozark downy phlox	Forb	A,B	6		

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<i>Phryma leptostachya</i>	lopseed	Forb	C,D	1		
<i>Physalis cordata</i>	heart-leaf ground-cherry	Forb	F	1		
<i>Physalis heterophylla</i>	clammy ground-cherry	Forb	A,B	1		
<i>Physocarpus opulifolius</i>	ninebark	Shrub	C,D	1		
<i>Physostegia angustifolia</i>	narrow-leaf false dragonhead	Forb	A,F	3		
<i>Phytolacca americana</i>	poke	Forb	E,F,G,H	1		
<i>Pilea pumila</i>	clearweed	Forb	C,D	2		
<i>Pinus strobus</i>	eastern white pine	Tree	C	1		
<i>Pinus taeda</i>	loblolly pine	Tree	C	1		
<i>Plantago lanceolata</i>	English plantain	Forb	F,G,H	1		
<i>Plantago major</i>	great plantain	Forb	F	1		
<i>Plantago rugelii</i>	black-seed plantain	Forb	F,G	1		
<i>Platanus occidentalis</i>	sycamore	Tree	D,F,G,H	1		
<i>Poa annua</i>	annual blue grass	Graminoid	F,H	2		
<i>Poa sylvestris</i>	woodland blue grass	Graminoid	C,D	6		
<i>Poa trivialis</i>	rough blue grass	Graminoid	D,E,G	6		
<i>Podophyllum peltatum</i>	May-apple	Forb	B,C,D	3		
<i>Polemonium reptans</i>	Jacob's-ladder	Forb	C,D	1		
<i>Polygala senega</i>	Seneca snakeroot	Forb	A,C	1		
<i>Polygonatum biflorum</i>	Solomon's-seal	Forb	C	6		
<i>Polygonum aviculare</i>	knotweed	Forb	H	1		
<i>Polygonum erectum</i>	erect knotweed	Forb	G,H	1		
<i>Polymnia canadensis</i>	white leafcup	Forb	C	1		
<i>Polystichum acrostichoides</i>	Christmas fern	Fern or Fern Ally	C,D	1		
<i>Potamogeton crispus</i>	curly pondweed	Forb	F	5		
<i>Prenanthes alba</i>	white rattlesnake-root	Forb	A,C	1		
<i>Prenanthes altissima</i>	tall rattlesnake-root	Forb	B,C	1		
<i>Primula meadia</i>	shooting-star	Forb	A	3		
<i>Prunella vulgaris</i>	heal-all	Forb	D,F	1		
<i>Prunus mahaleb</i>	perfumed cherry	Tree	C,H	1		
<i>Prunus serotina</i>	black cherry	Tree	C,D,F	1		
<i>Pseudognaphalium obtusifolium</i>	rabbit-tobacco	Forb	A,B	1		
<i>Pteridium aquilinum</i>	bracken fern	Fern or Fern Ally	B	1		
<i>Pueraria montana</i>	kudzu		A,B,H	1		
<i>Pycnanthemum albescens</i>	white-leaf mountain-mint	Forb	B	1		
<i>Pycnanthemum cf. virginianum</i>	Virginia mountain-mint	Forb	B	1		
<i>Pycnanthemum tenuifolium</i>	slender mountain-mint	Forb	A,B	1		
<i>Pyracantha coccinea</i>	scarlet firethorn	Woody Vine	H	1		
<i>Pyrus calleryana</i>	Callery pear	Tree	B,F,G,H	2		
<i>Quercus alba</i>	white oak	Tree	B,C,D	1		
<i>Quercus falcata</i>	southern red oak	Tree	B	6		
<i>Quercus marilandica</i>	blackjack oak	Tree	B	1		
<i>Quercus muehlenbergii</i>	chinquapin oak	Tree	A,D	1		
<i>Quercus rubra</i>	northern red oak	Tree	C	1		
<i>Quercus shumardii</i>	Shumard's oak	Tree	A,C	1		

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<i>Quercus stellata</i>	post oak	Tree	A,B	1		
<i>Quercus velutina</i>	black oak	Tree	B	1		
<i>Ranunculus abortivus</i>	small-flower crowfoot	Forb	D,G,H	1		
<i>Ranunculus micranthus</i>	rock buttercup	Forb	B,C,D	6		
<i>Ranunculus parviflorus</i>	small-flower buttercup	Forb	G,H	6		
<i>Ranunculus recurvatus</i>	hooked buttercup	Forb	C,D,E	1		
<i>Ranunculus sardous</i>	hairy buttercup	Forb	E,F,G,H	4		
<i>Ratibida pinnata</i>	gray-head coneflower	Forb	A	2		
<i>Rhus aromatica</i>	fragrant sumac	Shrub	A,B	1		
<i>Rhus copallinum</i>	winged sumac	Shrub	A,B,F,G,H	1		
<i>Rhus glabra</i>	smooth sumac	Shrub	B,F,G,H	1		
<i>Rhynchosia latifolia</i>	snout-bean	Herbaceous Vine	A,B	1		
<i>Ribes missouriense</i>	Missouri gooseberry	Shrub	C	1		
<i>Robinia pseudoacacia</i>	black locust	Tree	B,F,G,H	1		
<i>Rosa carolina</i>	Carolina rose		A,B	1		
<i>Rosa multiflora</i>	multiflora rose		B,C,D,E,F,G,H	1		
<i>Rosa setigera</i>	climbing rose		A,B,E	1		
<i>Rotala ramosior</i>	toothcup	Forb	E	1		
<i>Rubus</i>	rubus		B,C	1		
<i>Rubus occidentalis</i>	black raspberry		C,D	1		
<i>Rubus phoenicolasius</i>	wineberry		C,D,E,F,G,H	1		
<i>Rudbeckia hirta</i>	black-eyed Susan	Forb	A,F,G,H	1		
<i>Rudbeckia laciniata</i>	wild goldenglow	Forb	D,E,F	2		
<i>Rudbeckia missouriensis</i>	Missouri coneflower	Forb	A	1		
<i>Rudbeckia triloba</i>	brown-eyed Susan	Forb	A,C,F	1		
<i>Ruellia humilis</i>	hairy wild petunia	Forb	A	1		
<i>Ruellia strepens</i>	smooth wild petunia	Forb	A,C,D	1		
<i>Rumex</i>	rumex	Forb	E	1		
<i>Rumex crispus</i>	curly dock	Forb	F,G,H	1		
<i>Sabatia angularis</i>	rose-gentian	Forb	A,H	1		
<i>Sagittaria latifolia</i>	arrowhead	Forb	F	1		
<i>Salix nigra</i>	black willow	Tree	F	1		
<i>Salvia lyrata</i>	lyre-leaf sage	Forb	D,G	6		
<i>Sambucus canadensis</i>	elderberry	Shrub	D,F,G	1		
<i>Sanguinaria canadensis</i>	bloodroot	Forb	C,D	1		
<i>Sanicula canadensis</i>	Canadian black-snakeroot	Forb	A,B,C,D	1		
<i>Sanicula odorata</i>	clustered black-snakeroot	Forb	C,D	1		
<i>Saponaria officinalis</i>	bouncing-bet	Forb	H	1		
<i>Sassafras albidum</i>	sassafras	Tree	B,G	1		
<i>Schedonorus arundinaceus</i>	tall fescue	Graminoid	D,E,F,G,H	1		
<i>Schizachyrium scoparium</i>	little bluestem	Graminoid	A,B	1		
<i>Scirpus atrovirens</i>	bulrush	Graminoid	E	1		
<i>Scirpus pendulus</i>	bulrush	Graminoid	A	1		
<i>Scrophularia marilandica</i>	carpenter's-square	Forb	C,D	1		
<i>Scutellaria elliptica</i>	hairy skullcap	Forb	C,D,F	1		

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<i>Scutellaria lateriflora</i>	mad-dog skullcap	Forb	F	1		
<i>Scutellaria ovata</i>	heart-leaf skullcap	Forb	A,B	1		
<i>Scutellaria parvula</i>	skullcap	Forb	A	6		
<i>Securigera varia</i>	crown-vetch		D,F,G,H	1		
<i>Sedum pulchellum</i>	widow's-cross	Forb	A	6		
<i>Sedum ternatum</i>	woodland stonecrop	Forb	C,E	2		
<i>Senna marilandica</i>	wild senna	Forb	A,C,H	1		
<i>Setaria faberi</i>	Chinese foxtail	Graminoid	G,H	2		
<i>Setaria parviflora</i>	knot-root bristle grass	Graminoid	B,F,G,H	1		
<i>Setaria pumila</i>	yellow bristle grass	Graminoid	G,H	1		
<i>Sherardia arvensis</i>	field-madder	Forb	H	4		
<i>Sicyos angulatus</i>	bur-cucumber	Herbaceous Vine	D,E	1		
<i>Sideroxylon lanuginosum</i>	gum bumelia		A,B	1		
<i>Silene virginica</i>	fire-pink	Forb	B	6		
<i>Silene vulgaris</i>	bladder-campion	Forb	H	5		
<i>Silphium asteriscus</i>	starry rosinweed	Forb	A	1		
<i>Silphium integrifolium var. laeve</i>	rosinweed	Forb	A	1		
<i>Silphium perfoliatum</i>	cup-plant	Forb	D,F	1		
<i>Silphium terebinthinaceum</i>	prairie-dock	Forb	A	1		
<i>Sisyrinchium angustifolium</i>	blue-eyed-grass	Forb	A,D	1		
<i>Sisyrinchium campestre</i>	blue-eyed-grass	Forb	A,B	1		
<i>Smallanthus uvedalius</i>	bear's-foot	Forb	D	1		
<i>Smilax bona-nox</i>	saw greenbrier	Woody Vine	D	6		
<i>Smilax hispida</i>	bristly greenbrier	Woody Vine	C,D	1		
<i>Smilax pulverulenta</i>	carrion-flower	Herbaceous Vine	C	5		
<i>Solanum carolinense</i>	Carolina horse-nettle	Forb	G,H	1		
<i>Solanum ptychanthum</i>	black nightshade	Forb	C,D,H	1		
<i>Solidago altissima</i>	tall goldenrod	Forb	F,G,H	1		
<i>Solidago arguta</i>	goldenrod	Forb	A,C,D	1		
<i>Solidago caesia</i>	wreath goldenrod	Forb	C,D	1		
<i>Solidago hispida</i>	hairy goldenrod	Forb	B	1		
<i>Solidago nemoralis</i>	oldfield goldenrod	Forb	A,B	1		
<i>Solidago petiolaris</i>	goldenrod	Forb	A,B	1		
<i>Solidago radula</i>	rough goldenrod	Forb	A,B	1		
<i>Solidago ulmifolia</i>	elm-leaf goldenrod	Forb	A,B	1		
<i>Sorghastrum nutans</i>	Indian grass	Graminoid	A,B	1		
<i>Sorghum bicolor</i>	sorghum	Graminoid	H	1		
<i>Sorghum halepense</i>	Johnson grass	Graminoid	F,G,H	1		
<i>Sporobolus clandestinus</i>	hidden dropseed	Graminoid	A	1		
<i>Sporobolus compositus</i>	tall dropseed	Graminoid	A	1		
<i>Sporobolus vaginiflorus var. ozarkanus</i>	Ozark dropseed	Graminoid	A	1		
<i>Staphylea trifolia</i>	bladdernut	Shrub	C,D	1		
<i>Stellaria media</i>	common chickweed	Forb	C,D,G,H	6		
<i>Strophostyles helvola</i>	wild bean	Herbaceous Vine	F	1		
<i>Stylosanthes biflora</i>	pencil-flower	Forb	A,B	1		

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<i>Symphoricarpos orbiculatus</i>	coral-berry	Shrub	A,B,C,D	1		
<i>Symphytotrichum anomalum</i>	aster	Forb	B	1		
<i>Symphytotrichum drummondii</i>	blue wood aster	Forb	A,C,D	2		
<i>Symphytotrichum laeve</i>	smooth aster	Forb	A	1		
<i>Symphytotrichum lanceolatum</i>	tall white aster	Forb	D,E	1		
<i>Symphytotrichum lateriflorum</i>	white woodland aster	Forb	B,D,F	1		
<i>Symphytotrichum oblongifolium</i>	aromatic aster	Forb	A	1		
<i>Symphytotrichum patens</i>	late purple aster	Forb	A,B	1		
<i>Symphytotrichum pilosum</i>	white heath aster	Forb	F,G,H	1		
<i>Symphytotrichum turbinellum</i>	prairie aster	Forb	B	1		
<i>Symphytotrichum urophyllum</i>	white arrow-leaf aster	Forb	A	1		
<i>Taraxacum officinale</i>	common dandelion	Forb	G,H	2		
<i>Tephrosia virginiana</i>	goat's-rue	Forb	A,B	1		
<i>Teucrium canadense</i>	American germander	Forb	D,F,G	1		
<i>Thalictrum revolutum</i>	wax-leaf meadow-rue	Forb	A,D,F	1		
<i>Thalictrum thalictroides</i>	rue-anemone	Forb	A,B,C,D	6		
<i>Thaspium chapmanii</i>	meadow-parsnip	Forb	A,B,F	5		
<i>Thaspium trifoliatum</i>	meadow-parsnip	Forb	F	3		
<i>Tilia americana</i>	basswood	Tree	C,D	1		
<i>Torilis arvensis</i>	field hedge-parsley	Forb	G,H	1		
<i>Toxicodendron radicans</i>	poison-ivy	Woody Vine	A,B,C,D,F	1		
<i>Tradescantia ohiensis</i>	Ohio spiderwort	Forb	A	2		
<i>Tragia</i>	noseburn		A	1		
<i>Tragia cordata</i>	heart-leaf noseburn		A,B,D	1		
<i>Tridens flavus</i> var. <i>flavus</i>	purple-top tridens	Graminoid	A,B,F,G,H	1		
<i>Trifolium campestre</i>	hop clover	Forb	G	6		
<i>Trifolium dubium</i>	small hop clover	Forb	G,H	6		
<i>Trifolium pratense</i>	red clover	Forb	F,G,H	1		
<i>Trifolium repens</i>	white clover	Forb	G,H	1		
<i>Trillium ozarkanum</i>	Ozark trillium	Forb	B	5		
<i>Trillium sessile</i>	wakerobin	Forb	C,D	6		
<i>Trillium viridescens</i>	green trillium	Forb	C,D	5		
<i>Triodanis perfoliata</i> subsp. <i>perfoliata</i>	clasping-leaf Venus'-looking-glas	Forb	G	6		
<i>Triosteum</i>	horse-gentian		A	1		
<i>Ulmus alata</i>	winged elm	Tree	A,B	1		
<i>Ulmus americana</i>	American elm	Tree	D	1		
<i>Ulmus rubra</i>	slippery elm	Tree	C,D,F	1		
<i>Urtica gracilis</i>	slender nettle	Forb	E	1		
<i>Uvularia grandiflora</i>	large-flower bellwort	Forb	C	1		
<i>Vaccinium arboreum</i>	farkleberry	Shrub	B	1		
<i>Vaccinium pallidum</i>	low-bush blueberry	Shrub	B	1		
<i>Vaccinium stamineum</i>	deerberry	Shrub	B	1		
<i>Valerianella radiata</i>	cornsalad	Forb	H	6		
<i>Verbascum blattaria</i>	moth mullein	Forb	G,H	1		
<i>Verbascum thapsus</i>	woolly mullein	Forb	G,H	1		

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<i>Verbena urticifolia</i>	white vervain	Forb	B,F	1		
<i>Verbesina alternifolia</i>	yellow ironweed	Forb	C,D,E,F,G	1		
<i>Verbesina helianthoides</i>	crownbeard	Forb	A,B	1		
<i>Verbesina virginica</i>	frostweed	Forb	C,D,E,F,G	1		
<i>Vernonia arkansana</i>	Arkansas ironweed	Forb	B,E,F	1		
<i>Vernonia baldwinii</i>	Baldwin's ironweed	Forb	B	1		
<i>Vernonia missurica</i>	Missouri ironweed	Forb	B,F	2		
<i>Veronica anagallis-aquatica</i>	water speedwell	Forb	E,F	2		
<i>Veronica arvensis</i>	corn speedwell	Forb	G,H	6		
<i>Veronica peregrina</i>	neckweed	Forb	E,F,G	6		
<i>Veronica persica</i>	Persian speedwell	Forb	F,H	1		
<i>Viburnum prunifolium</i>	blackhaw		A,D	2		
<i>Viburnum rufidulum</i>	rusty blackhaw		B	1		
<i>Vicia caroliniana</i>	wood vetch	Herbaceous Vine	A,B	1		
<i>Vinca major</i>	big-leaf periwinkle		C,H	1		
<i>Viola bicolor</i>	Johnny-jump-up	Forb	H	6		
<i>Viola pedata</i>	bird's-foot violet	Forb	A,B	2		
<i>Viola pubescens</i>	downy yellow violet	Forb	C,D	4		
<i>Viola sororia</i>	blue violet	Forb	C,D	2		
<i>Viola striata</i>	cream violet	Forb	C,D	1		
<i>Vitis aestivalis</i>	summer grape	Woody Vine	B,C,D	1		
<i>Vitis cinerea</i>	winter grape	Woody Vine	D,E	1		
<i>Vitis vulpina</i>	frost grape	Woody Vine	D	3		
<i>Woodsia obtusa</i>	blunt-lobe cliff fern	Fern or Fern Ally	A	1		
<i>Yucca cf. arkansana</i>	Arkansas yucca		A	1		
<i>Zizia aptera</i>	heart-leaf golden Alexanders	Forb	A,B	1		
<i>Zizia aurea</i>	golden Alexanders	Forb	C,F	1		

Scientific Name*	Common Name	Growth Form	Habitat(s)	Source	Voucher	Herbarium
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Total Taxa: 608

Growth Form:	Growth Form Description:
Forb	herbaceous flowering annual or perennial, non-graminoid plant
Graminoid	herbaceous annual or perennial grass or grass-like plant (here defined including only true grasses, sedges, and rushes)
Fern or Fern Ally	vascular, non-flowering plant that reproduces by spores
Herbaceous Vine	herbaceous annual or perennial twining/climbing plant with relatively long stems
Woody Vine	perennial, woody or semi-woody twining/climbing plant with relatively long stems [may not appear especially 'woody' but does not die back to ground in winter...e.g., some members of greenbrier family]
Shrub	perennial, often multi-stemmed woody or semi-woody plant usually less than 5 meters (16 feet) in height at maturity [including bamboo members of the grass family]
Tree	perennial, often single-stemmed woody plant typically greater than 5 meters (16 feet) in height at maturity [seedlings, saplings, and stunted individuals of such taxa are also included in this category]

Habitats:
A = limestone glade and woodland
B = chert woodland
C = mesic hardwood forest
D = riparian forest
E = spring run
F = lakeshore
G = field
H = disturbed area

Sources:
1 = Theo Witsell, 9-11 September 2013 site inventory
2 = Theo Witsell, 16-18 & 20 October 2013 site inventory
3 = Joan Reynolds, plant list
4 = Deb Bartholomew, April 2009 photographs
5 = Theo Witsell, 15 May 2011 site inventory/Arkansas Native Plant Society field trip
6 = Theo Witsell, Spring 2014 (16, 17, 18 April 2014; 25 April 2014; & 30 May 2014) site visits.