

A photograph of a wetland or marsh area. The foreground is filled with tall, green reeds. The middle ground shows a body of water with several lily pads floating on the surface. In the background, there are more trees and a clear sky. The text "APPENDIX E: FLORA SPECIES LIST" is overlaid in white, sans-serif font across the upper portion of the image.

# APPENDIX E: FLORA SPECIES LIST

Nomenclature Key:

- **Ubiquitous** - Found throughout the uplands and lowlands with no apparent preference. In disturbed sites, such as shaded mudflats, ubiquitous species are sometimes the only vegetation present.
- **Occasional** – Scattered individual species or small populations, usually associated with environmental gradients such as uplands with some sunlight, or these species randomly populate areas.
- **Sometimes Invasive** – Native and non-native species that sometimes show a tendency to dominate particular niche spaces. Some native species show invasive tendencies in areas shade, increased soil nitrogen, high humidity, and lack of fire and grazing. These species include silver maple, red elm, green ash, gooseberry, and prickly ash.
- **Seeps and calcareous wetlands** imply low nutrient environments
- **(nn) – Non-native**

Total Species List for City-owned lands in the River Valley

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	Requires sun for regen, evidence of recent afforestation
Sugar maple	<i>Acer saccharum</i>	Located only in a few locations, near streams and Native American encampments
Silver maple	<i>Acer saccharinum</i>	Lowlands and floodplain, a few large open growth specimens, becoming over abundant
Hackberry	<i>Celtis occidentalis</i>	Uplands and lowlands, few large specimens (39A) (38F), becoming over abundant
Black ash	<i>Fraxinus nigra</i>	Seeps, marsh, and lowlands, a few large trees, becoming over abundant without beaver
Green ash	<i>Fraxinus pennsylvanica</i>	Uplands and lowlands, few large specimens, becoming over abundant, some trees showing symptoms of EAB
Butternut	<i>Juglans cinerea</i>	Uplands and lowlands, most deceased to butternut canker
Red cedar	<i>Juniperus virginiana</i>	Uplands, shade intolerant, no regen
Cottonwood	<i>Populus deltoides</i>	Lowlands and floodplain, a few open growth original tress, possible one bearing tree, 46J, shade intolerant, no regen
Big-tooth aspen	<i>Populus grandidentata</i>	Once common, almost extirpated, 6 trees in 38F
Quacking aspen	<i>Populus tremuloides</i>	Once common, almost extirpated, one tree in 46D,
White oak	<i>Quercus alba</i>	Rare, only one found, Native American encampment, shade intolerant, no regen
Northern pin oak	<i>Quercus ellipsoidalis</i>	Once more common, now rare, e.g. 46B

Bur oak	<i>Quercus macrocarpa</i>	Uplands and lowlands, former keystone species, shade intolerant, no regen
Red oak	<i>Quercus rubra</i>	Uplands and lowlands, once considered invasive, dead trees common – oak wilt, shade intolerant, no regen
Black locust	<i>Robinia pseudoacacia</i>	Open disturbed sites, invasive (nn)
Red mulberry	<i>Morus rubra</i>	Common in floodplain, and near encampment streams
Black willow	<i>Salix nigra</i>	Seeps, shade intolerant, no regen
Basswood	<i>Tilia americana</i>	Ubiquitous uplands and lowlands
American elm	<i>Ulmus americana</i>	Lowlands, rare, large dead trees
Siberian elm	<i>Ulmus pumila</i>	Uplands, invasive in openings (nn)
Red elm	<i>Ulmus rubra</i>	Uplands and lowlands, becoming over abundant
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	Uplands, over abundant in places
American plum	<i>Prunus americana</i>	Once common, now rare, old overgrown specimens found near encampments
Prairie crab apple	<i>malus ioensis</i>	Once common, now rare, old overgrown specimens found near encampments
<b>Shrub layer</b>		
Leadplant	<i>Amorpha canescens</i>	Once common, now rare, sunny knolls
False Indigo	<i>Amorpha fruticosa</i>	Occasional, wet prairie, Savage Bridge, Colman Lake, Marshlands East Units
Silky Dogwood	<i>Cornus amomum</i>	Occasional, wet prairie, Savage Bridge, Colman Lake, Marshlands East Units
Red-osier Dogwood	<i>Cornus sericea</i>	Occasional, wet prairie, Savage Bridge, Colman Lake, Marshlands East Units
American Hazelnut	<i>Corylus americana</i>	Once common, now extirpated
Hawthorn	<i>Crataegus spp.</i>	Once common, now extirpated
Glossy buckthorn	<i>Frangula alnus</i>	Invasive, wetlands lowlands, and uplands (nn)
Tartarian honeysuckle	<i>Lonicera tatarica</i>	First invasive wave, requires sunlight, and is dwindling in dominance (nn)
Chokecherry	<i>Prunus virginiana</i>	Native, sometimes invasive

Common buckthorn	<i>Rhamnus cathartica</i>	Invasive, ubiquitous shade, especially rich lowlands (nn)
Smooth sumac	<i>Rhus glabra</i>	Once common, now rare, limited to sunny knolls
Prickly gooseberry	<i>Ribes cynosboti</i>	Ubiquitous
Prairie rose	<i>Rosa arkansana</i>	Once common, sunny knolls, now rare, limited to Nine Mile Bluff Prairie
Smooth Wild Rose	<i>Rosa blanda</i>	Openings, wet-mesic prairie, 30D
Pussy willow	<i>Salix discolor</i>	Wetlands, over abundant w/o beaver
Bebb's willow	<i>Salix bebbiana</i>	Wetlands, over abundant w/o beaver
Sandbar willow	<i>Salix interior</i>	Wetlands, rhizomatous, highly aggressive without beaver, can become invasive
Highbush Cranberry	<i>Viburnum opulus</i>	Lowlands, occasional
Prickly ash	<i>Zanthoxylum americanum</i>	Occasional, sometimes invasive
<b>Ground layer</b>		
Yarrow	<i>Achillea millefolium</i>	Once common, now rare, limited to sunny knolls, 46B
Sweet flag	<i>Acorus calamus</i>	Calcareous seeps
Maidenhair fern	<i>Adiantum pedatum</i>	Rare, east aspects along spring stream
Common agrimony	<i>Agrimonia gryposepala</i>	Openings, disturbed areas
Garlic mustard	<i>Alliaria petiolata</i>	Ubiquitous, blufflands, shade, eutrophic soils, Nine Mile Bluff
Wild leek	<i>Allium tricoccum</i>	Ephemeral, associated spring fed streams
Ragweed	<i>Ambrosia coronopifolia</i>	Once common, now rare, limited to sunny knolls, Nine Mile Bluff
Giant Ragweed	<i>Ambrosia trifida</i>	Lowlands, sun, eutrophic soils
Hog peanut	<i>Amphicarpaea bracteata</i>	Ubiquitous, shade obligate
Big bluestem	<i>Andropogon gerardii</i>	Once common, now rare, limited to sunny knolls, Nine Mile Bluff
Wood anemone	<i>Anemone quinquefolia</i>	Uplands, streams & encampments, >30 sun
Angelica	<i>Angelica atropurpurea</i>	Seeps with 50% sun
Pasque flower	<i>Anemone patens</i>	Once common, now rare, sunny knolls, Nine Mile Bluff
Wood anemone	<i>Anemone quinquefolia</i>	Uplands, streams & encampments, >30 sun
Pussytoes	<i>Antennaria plantaginifolia</i>	Once common, now apparently extirpated

Columbine	<i>Aquilegia canadensis</i>	Uplands, > 50% sun
Burdock	<i>Arctium lappa</i>	Ubiquitous, eutrophic soils, disturbed areas, (nn)
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, shade, disturbed areas
White sage	<i>Artemisia ludoviciana</i>	Once common, sunny knolls, now rare, Nine Mile Bluff Prairie
Marsh milkweed	<i>Asclepias incarnata</i>	Wet mesic, and wet prairie
Common milkweed	<i>Asclepias syriaca</i>	Sunny disturbed areas, nitrophile
Whorled milkweed	<i>Asclepias verticillata</i>	Once common, now rare, limited to sunny knolls, Nine Mile Bluff
Green milkweed	<i>Asclepias viridiflora</i>	Never common, sunny knolls, now very rare, Nine Mile Bluff Prairie
Ground plum	<i>Astragalus crassicaarpus</i>	Sunny gravel knolls, 1 plant, 46B
Heath aster	<i>Aster ericoides</i>	Once common, now rare, limited to sunny knolls, Nine Mile Bluff
Aromatic aster	<i>Aster oblongifolius</i>	Once common, now rare, limited to sunny knolls, Nine Mile Bluff
Skyblue aster	<i>Aster oolentangiensis</i>	Once common, sunny knolls, now rare, Nine Mile Bluff Prairie
Silky aster	<i>Aster sericeus</i>	Once common, now rare, limited to sunny knolls, Nine Mile Bluff
Beggars ticks	<i>Bidens sp.</i>	Wetlands & seeps, yellow aster, > 50% sun
Side-oats grama	<i>Bouteloua curtipendula</i>	Once common, now rare, limited to sunny knolls, Nine Mile Bluff
Hairy grama	<i>Bouteloua hirsuta</i>	Once common, now rare, limited to sunny knolls, Nine Mile Bluff
Smooth brome	<i>Bromus inermis</i>	Occasional, sunny knolls, invasive (nn)
Ear-leaved brome	<i>Bromus latiglumis</i>	Occasional, floodplain terrace soils, partial sun, 45J
Blue joint grass	<i>Calamagrostis canadensis</i>	Wetlands & seeps, > 50% sun
Marsh marigold	<i>Caltha palustris</i>	Calcareous wetlands, ephemeral, shade tolerant
Toothed primrose	<i>Calylophus serrulatus</i>	Once common, now rare, limited to sunny knolls 46B, Nine Mile Bluff
Tall bellflower	<i>Campanula americana</i>	Openings, along trail edges, dry-mesic to mesic
Marsh Bellflower	<i>Campanula aparinoides</i>	38K mowed RW

Harebell	<i>Campanula rotundifolia</i>	Once common, sunny knolls, now rare, good population Nine Mile Bluff Prairie
Spring cress	<i>Cardamine bulbosa</i>	Seeps, ephemeral, shade tolerant
Common Wood sedge	<i>Carex blanda</i>	Associated with woody encroachment into remnant openings, 46A, 46B, 46O
Short sedge	<i>Carex brevior</i>	Once common, sunny knolls, now rare, restricted to Nine Mile Bluff Prairie
Porcupine sedge	<i>Carex hystericina</i>	Seeps, >50% sun
Lake sedge	<i>Carex laucustris</i>	Wetlands, common, shade tolerant
Pennsylvania sedge	<i>Carex pennsylvanica</i>	Uplands, oligotrophic soils, > 30% sun
Prairie sedge	<i>Carex prairea</i>	Seeps, >50% sun
Starry sedge	<i>Carex rosea</i>	Uplands, oligotrophic soils, shade tolerant
Fen star sedge	<i>Carex sterilis</i>	Seeps, calcareous wetlands, >50% sun
Tussock sedge	<i>Carex stricta</i>	Seeps, calcareous wetlands, >50% sun
Fox sedge	<i>Carex vulpinoidea</i>	Wetlands, common to occasional
Hairy golden aster	<i>Chrysopsis villosa</i>	Once common, sunny knolls, now rare, restricted to Nine Mile Bluff Prairie
Water hemlock	<i>Cicuta bulbifera</i>	Occasional, wetlands, 38K
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous, eutrophic soils, shade tolerant
Wood Reed Grass	<i>Cinna arundinacea</i>	Occasional, floodplain, shade tolerant
Swamp thistle	<i>Cirsium muticum</i>	Occasional, floodplain, native thistle, monarch butterfly flower
Horseweed	<i>Conyza, canadensis</i>	Uplands, common, sunny disturbed knolls
Crown Vetch	<i>Coronilla varia</i>	Rare, disturbed areas, sunlight, becoming invasive (nn)
Canadian honewort	<i>Cryptotaenia canadensis</i>	Lowlands, compacted soils, >30% sun
Purple prairie clover	<i>Dalea purpurea</i>	Once common, now rare, limited to Nine Mile Bluff
White prairie clover	<i>Dalea candida</i>	Once common, sunny knolls, now rare, restricted to Nine Mile Bluff Prairie
Purple prairie clover	<i>Dalea purpurea</i>	Once common, sunny knolls, now rare, restricted to Nine Mile Bluff Prairie

Prairie larkspur	<i>Delphinium carolinianum</i>	Once common, sunny knolls, now rare, restricted to Nine Mile Bluff Prairie
Dutchman's breeches	<i>Dicentra cucullaria</i>	Uplands, ephemeral, shade obligate, along streams near encampments
Rough Barnyard Grass	<i>Echinochloa muricata</i>	Common, mud flats, disturbed wetlands
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, openings, along trail
Great spike rush	<i>Eleocharis palustris</i>	Occasional, calcareous wetlands
Nodding wild rye	<i>Elymus canadensis</i>	Once common, sunny knolls, now rare, restricted to Nine Mile Bluff Prairie
Slender wheatgrass	<i>Elymus trachycaulus</i>	Rare, sunny openings, Savage Bridge Unit
Silky wild rye	<i>Elymus villosus</i>	Uplands, oligotrophic soils, >50% sun, last surviving grass of afforestation
Virginia wild rye	<i>Elymus virginicus</i>	Floodplain terraces partial shade
Water Horsetail	<i>Equisetum fluniatale.</i>	Lowlands, wetlands, sun patches,
Joe-pye weed	<i>Eupatorium maculatum</i>	30E, 30F, 38K, 38L, 38N,
Boneset	<i>Eupatorium perfoliatum</i>	Wetlands, seeps
Leafy spurge	<i>Euphorbia esula</i>	Invasive, dry knolls, (nn)
Yellow trout lily	<i>Erythronium americanum</i>	Uplands, ephemeral, streams, encampments
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous, disturbed areas
Nodding fescue	<i>Festuca paradoxa</i>	Uplands, >30%, last surviving grass of afforestation
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous, highly disturbed areas
Fragrant bedstraw	<i>Galium triflorum</i>	Ubiquitous, disturbed areas
Wild geranium	<i>Geranium maculatum</i>	Occasional, uplands
White avens	<i>Geum canadense</i>	Ubiquitous, highly disturbed areas
Prairie smoke	<i>Geum triflorum</i>	Once common, sunny knolls, now rare, listed 2006-2007 inventory, but not in 2017
Virginia stickseed	<i>Hackelia virginiana</i>	Lowlands, ravines, disturbed areas
Pennyroyal	<i>Hedeoma hispida</i>	Once common, now rare, limited to Nine Mile Bluff
Woodland Sunflower	<i>Helianthus strumosus</i>	Once common in the groves, now rare, noted along the fringe of Nine Mile Bluff Prairie
Early sunflower	<i>Heliopsis helianthoides</i>	Once common, now rare, noted in sunny knoll 46O

Hepatica	<i>Hepatica acutiloba</i>	Uplands, evergreen, streams, encampments
Golden aster	<i>Heterotheca villosa</i>	Once common, now rare, limited to Nine Mile Bluff, 46B
Dames rocket	<i>Hesperis matronalis</i>	Uplands, lowlands, eutrophic soils, (nn)
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Blufflands, lowlands, disturbed areas
Touch-me-not	<i>Impatiens capensis</i>	Seeps, wetlands, becoming invasive
Blue flag iris	<i>Iris versicolor</i>	Seeps, low nutrient wetlands
June grass	<i>Koeleria pyramidata</i>	Once common, now rare, limited to Nine Mile Bluff, 46B
False boneset	<i>Kuhnia eupatorioides</i>	Once common, sunny knolls, extirpated
Wood nettle	<i>Laportea canadensis</i>	Lowlands, floodplain, nitrophilic, invasive
Rice cutgrass	<i>Leersia oryzoides</i>	Seeps, low nutrient wetlands, wet prairie
White grass	<i>Leersia virginica</i>	Disturbed areas, compacted moist soils
Motherwort	<i>Leonurus cardiaca</i>	Disturbed areas, eutrophic soils, (nn)
Round-bush clover	<i>Lespedeza capitata</i>	Once common, sunny knolls, now rare, noted 2006-2007 inventory, but not in 2017
Dotted blazing star	<i>Liatris punctata</i>	Once common, now rare, limited to Nine Mile Bluff, 46B
Michigan lily	<i>Lilium michiganense</i>	Seeps, low nutrient wetlands, wet prairie
Yellow flax	<i>Linum sp.</i>	Once common, now rare, limited to Nine Mile Bluff, 46B
Hoary puccoon	<i>Lithospermum canescens</i>	Once common, now rare, limited to Nine Mile Bluff, 46A, 46B
American horehound	<i>Lycopus americanus</i>	Wetlands, common
Virginia Bugleweed	<i>Lycopus virginicus</i>	Common, wetlands
Purple Loosestrife	<i>Lythrum salicaria</i>	Invasive, wetlands, occasional,
Canada moonseed	<i>Menispermum canadense</i>	Occasional throughout, partial shade obligate
Common mint	<i>Mentha arvensis</i>	Streams, seeps, low nutrient wetlands
Bluebells	<i>Mertensia paniculata</i>	Upland ravines, occasional
White sweet clover	<i>Melilotus alba</i>	Invasive, eutrophic grassland, Nine Mile Bluff Prairie (nn)
Monkey Flower	<i>Mimulus ringens</i>	Wetlands, occasional
Wild bergamot	<i>Monarda fistulosa</i>	Once common, now rare, sunny knolls, dry and mesic grassland – savanna

Plains muhly	<i>Muhlenbergia cuspidata</i>	Once common, now rare, limited to Nine Mile Bluff, 46B
Marsh muhly grass	<i>Muhlenbergia glomerata</i>	Seeps, low nutrient wetlands, wet prairie
Watercress	<i>Nasturtium officinale</i>	In springs, seeps, at the point of discharge
Sensitive fern	<i>Onoclea sensibilis</i>	Seeps, low nutrient wetlands, wet prairie
False gromwell	<i>Onosmodium molle</i>	Never common, now rare, sunny knolls, 46A, 46B
Sweet cicely	<i>Osmorhiza claytonii</i>	Ubiquitous, tolerant to high disturbance
Cowbane	<i>Oxypolis rigidior</i>	Seeps, low nutrient wetlands, wet prairie
Scribner's panic grass	<i>Panicum oligosanthos</i>	Once common, now rare, limited to Nine Mile Bluff, 46B
Woodbine	<i>Parthenocissus inserta</i>	Ubiquitous, blufflands, lowlands, floodplain
Reed canary grass	<i>Phalaris arundinacea</i>	Invasive, wetlands, eutrophic soils, non-native & native strains, all hybridized
Wild blue phlox	<i>Phlox divaricata</i>	Occasional, scattered, rare populations
Clammy ground cherry	<i>Physalis heterophylla</i>	Occasional, sunny knolls, disturbed areas
Clearweed	<i>Pilea sp.</i>	Ubiquitous, tolerant to high disturbance
Fowl bluegrass	<i>Poa palustris</i>	Streams, seeps, oligotrophic soils
Kentucky bluegrass	<i>Poa pratensis</i>	Sunny uplands, considered invasive, native and non-native strains, all hybridized
Smartweed	<i>Polygonum amphibium</i>	Seeps, low nutrient wetlands, wet prairie
Marsh Waterpepper	<i>Polygonum hydropiper</i>	Common, wetlands, marshlands
Tall cinquefoil	<i>Potentilla arguta</i>	Once common, now limited to Nine Mile Bluff Prairie, 46B
Mountain mint	<i>Pycnanthemum virginianum</i>	Seeps, low nutrient wetlands, wet prairie
Kidney leaf buttercup	<i>Ranunculus abortivus</i>	Wetlands, bare soils
Yellow coneflower	<i>Ratibida pinnata</i>	Rare, limited to sunny knolls
Dwarf raspberry	<i>Rubus pubescens</i>	Seeps, low nutrient wetlands, wet prairie
Wild golden glow	<i>Rudbeckia laciniata</i>	Seeps, low nutrient wetlands, partial shade
Curley dock	<i>Rumex crispus</i>	Moist, eutrophic soils, sun
Great water dock	<i>Rumex orbiculatus</i>	Seeps, low nutrient wetlands, wet prairie
Broad arrowhead	<i>Sagittaria latifolia</i>	Seeps, low nutrient wetlands & emergent marsh

Bloodroot	<i>Sanguinaria canadensis</i>	Uplands, oligotrophic soils, >25% sunlight
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, blufflands, lowlands, floodplain
Little bluestem	<i>Schizachyrium scoparium</i>	Once common, sunny knolls, now rare
Hardstem bulrush	<i>Scirpus acutus</i>	Occasional, marshlands, Long Meadow Lake
Dark green bulrush	<i>Scirpus atrovirens</i>	Occasional, shorelands, Long Meadow Lake
River Bulrush	<i>Scirpus fluviatilis</i>	Dominant marshland plant
Marsh skullcap	<i>Scutellaria galericulata</i>	Seeps, low nutrient wetlands, wet prairie
Mad dog skullcap	<i>Scutellaria lateriflora</i>	Seeps, low nutrient wetlands, wet prairie
Bur Cucumber	<i>Sicyos angulatus</i>	Common in floodplains, lowlands
Water parsnip	<i>Sium suave</i>	Seeps, low nutrient wetlands, wet prairie
False solomon's plume	<i>Smilacina stellata</i>	Ubiquitous, tolerant to high disturbance
Canada goldenrod	<i>Solidago canadensis</i>	Occasional, floodplain, sun
Zig zag goldenrod	<i>Solidago flexicaulis</i>	Uplands, oligotrophic soils, >25% sunlight
Giant goldenrod	<i>Solidago gigantea</i>	Occasional, floodplain, sun
Gray goldenrod	<i>Solidago nemoralis</i>	Once common, sunny knolls, now rare
Indian grass	<i>Sorghastrum nutans</i>	Once common, sunny knolls, now rare
Bur reed	<i>Sparganium eurycarpum</i>	30E, 30F, 38K, 38L 38N
Prairie dropseed	<i>Sporobolus heterolepis</i>	Once common, sunny knolls, now rare
Woundwort	<i>Stachys palustris</i>	Occasional, floodplain, full to partial sun
Porcupine grass	<i>Stipa spartea</i>	Once common, sunny knolls, now rare
Panicled aster	<i>Symphyotrichum lanceolatum</i>	Ubiquitous, dry mesic to moist mesic, >35 sunlight
Ontario Aster	<i>Symphyotrichum ontarionis</i>	Lowlands, wetland fringe, floodplain
Skunk cabbage	<i>Symplocarpus foetidus</i>	Common in seeps, ephemeral, shade tolerant
Meadow rue	<i>Thalictrum dasycarpum</i>	Sunny wet, wet mesic areas
Early meadow rue	<i>Thalictrum dioicum</i>	Uplands, oligotrophic soils, >25% sunlight
Rue anemone	<i>Thalictrum thalictroides</i>	Uplands, oligotrophic soils, >50% sunlight
Northern marsh fern	<i>Thelypteris palustris</i>	Seeps, low nutrient wetlands, wet prairie
Poison ivy	<i>Toxicodendron radicans</i>	30E, 30F, 38K, 38L 38N
Spiderwort	<i>Tradescantia occidentalis</i>	Once common, sunny knolls, now rare, 46A, 46B, Nine Mile Bluff

Yellow goat's beard	<i>Tragopogon dubius</i>	Open sunny knolls (nn)
Nodding trillium	<i>Trillium cernuum</i>	Uplands, oligotrophic soils, >20% sunlight
Snow trillium	<i>Trillium nivale</i>	Uplands, oligotrophic soils, >20% sunlight
Narrow leaf cattail	<i>Typha angustifolia</i>	Occasional, in patches, monitor spread
Hybrid Cattail	<i>Typha x glauca</i>	38L
Stinging Nettle	<i>Urtica dioica</i>	Lowlands, eutrophic soils, disturbed areas
Hoary vervain	<i>Verbena stricta</i>	Once common, sunny knolls, now rare
Bearded birdfoot	<i>Viola palmata</i> var. <i>pedatifida</i>	Once common, sunny knolls, now rare
Yellow violet	<i>Viola pubescens</i>	Uplands, oligotrophic soils, >30% sunlight
Common blue violet	<i>Viola sororia</i>	Uplands, oligotrophic soils, >30% sunlight
Riverbank grape	<i>Vitis riparia</i>	Floodplains, common throughout

**Mound Springs Park East Lowlands Species List**

<b>Common Name</b>	<b>Genus species</b>	<b>Field notes</b>
<b>Canopy</b>		
Box elder	<i>Acer negundo</i>	29I (requires sun for regeneration)
Silver maple	<i>Acer saccharinum</i>	29D
Black ash	<i>Fraxinus nigra</i>	Common
Green ash	<i>Fraxinus pennsylvanica</i>	Fringes, lowland
Black willow	<i>Salix nigra</i>	Several large standing, many dead & down
<b>Shrubs</b>		
Pussy willow	<i>Salix discolor</i>	Over grown
Bebb's willow	<i>Salix bebbiana</i>	Over grown
<b>Ground Layer</b>		
Hog peanut	<i>Amphicarpaea bracteata</i>	Uplands adjacent to seeps
Beggars ticks	<i>Bidens sp.</i>	Continuous cover in sun
Marsh marigold	<i>Caltha palustris</i>	Good populations, near seeps
Spring cress	<i>Cardamine bulbosa</i>	Good population in openings
Lake sedge	<i>Carex laucustris</i>	Towards Long Meadow Lake
Prairie sedge	<i>Carex prairea</i>	Continuous cover in sun

Virginia wild rye	<i>Elymus virginicus</i>	Well drained lowlands, > 50% sunlight
White avens	<i>Geum canadense</i>	Ubiquitous, highly disturbed soils
Jewelweed	<i>Impatiens capensis</i>	Ubiquitous
Wood nettle	<i>Laportea canadensis</i>	Most common better drained soils in deeper shade, 29E
Rice cutgrass	<i>Leersia oryzoides</i>	Continuous cover in sun
Michigan lily	<i>Lilium michiganense</i>	3 plants 29I
Watercress	<i>Nasturtium officinale</i>	At water discharge locations
Reed canary grass	<i>Phalaris arundinacea</i>	Small population, nutrient poor fen prevents dominance
Clearweed	<i>Pilea sp.</i>	Mud flats at perimeter
Fowl bluegrass	<i>Poa palustris</i>	Patchy population
Smartweed	<i>Polygonum amphibium</i>	Ubiquitous
Dwarf raspberry	<i>Rubus pubescens</i>	Small pop. in sunniest patches
Golden glow	<i>Rudbeckia laciniata</i>	Better drained soils, openings
Water parsnip	<i>Sium suave</i>	1 plant, in opening
Skunk cabbage	<i>Symplocarpus foetidus</i>	In seeps, same area as marsh marigold
Meadow rue	<i>Thalictrum dasycarpum</i>	Better drained soils, openings

**Mound Springs Park Central Lowlands Species List**

Common name	Genus species	Field notes
<b>Canopy</b>		
Sugar maple	<i>Acer saccharum</i>	Within 50 meters of stream (29F)
Hackberry	<i>Celtis occidentalis</i>	Ubiquitous, sometimes invasive
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous, sometimes invasive
Bur oak	<i>Quercus macrocarpa</i>	No regeneration
Red oak	<i>Quercus rubra</i>	No regeneration
Basswood	<i>Tilia americana</i>	Ubiquitous
Red elm	<i>Ulmus rubra</i>	Ubiquitous, sometimes invasive
<b>Sub canopy</b>		

Ironwood	<i>Ostrya virginiana</i>	Ubiquitous, over abundant
<b>Shrub layer</b>		
Glossy buckthorn	<i>Frangula alnus</i>	Found in stream delta (nn)
Tartarian honeysuckle	<i>Lonicera tatarica</i>	Occasional (nn)
Chokecherry	<i>Prunus virginiana</i>	Occasional, sometimes invasive
Common buckthorn	<i>Rhamnus cathartica</i>	Dense stands in 39C & 39B (nn)
<b>Ground Layer</b>		
Garlic mustard	<i>Alliaria petiolata</i>	Eutrophic soils 39C & 39B (nn)
Wild leek	<i>Allium tricoccum</i>	Ravines, ephemeral 29F
Burdock	<i>Arctium minus</i>	Invasive, nitrophile, 39B
Wood anemone	<i>Anemone quinquefolia</i>	East bank, west aspect 29F
Columbine	<i>Aquilegia canadensis</i>	Scattered, openings
Pennsylvania sedge	<i>Carex pensylvanica</i>	Occasional, >35% sun
Starry sedge	<i>Carex rosea</i>	Occasional, deep shade
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous
Canadian Honewort	<i>Cryptotaenia canadensis</i>	Ubiquitous
Dutchman's breeches	<i>Dicentra cucullaria</i>	Large colony, west bank east aspect 29F-H
Yellow Trout Lily	<i>Erythronium americanum</i>	Small pop, west bank east aspect 29F-H
Silky wild rye	<i>Elymus villosus</i>	Occasional, uplands openings
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous
Nodding fescue	<i>Festuca paradoxa</i>	Occasional
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous
Fragrant bedstraw	<i>Galium triflorum</i>	Ubiquitous, disturbed areas
Hepatica	<i>Hepatica acutiloba</i>	Small pop, west bank east aspect 29F-H
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Ubiquitous
Watercress	<i>Nasturtium officinale</i>	In springs, seeps, at the point of discharge

Sweet cicely	<i>Osmorhiza claytonii</i>	Ubiquitous
Bloodroot	<i>Sanguinaria canadensis</i>	Occasional, uplands
False Solomon's plume	<i>Smilacina stellata</i>	Occasional
Zig zag goldenrod	<i>Solidago flexicaulis</i>	Ubiquitous
Early meadow rue	<i>Thalictrum dioicum</i>	Occasional, uplands
Rue anemone	<i>Thalictrum thalictroides</i>	Large pop, east bank, west aspect 29F-H
Nodding trillium	<i>Trillium cernuum</i>	Occasional
Snow trillium	<i>Trillium nivale</i>	Small pop, west bank east aspect 29F-H
Yellow Violet	<i>Viola pubescens</i>	Occasional
Common blue violet	<i>Viola sororia</i>	Ubiquitous

Mound Springs Park Central Uplands Species List

Common name	Genus species	Field notes
<b>Canopy</b>		
Sugar maple	<i>Acer saccharum</i>	Within 50 meters of stream (29G)
Hackberry	<i>Celtis occidentalis</i>	Ubiquitous, sometimes invasive
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous, sometimes invasive
Butternut	<i>Juglans cinerea</i>	Dead or seriously diseased
Red cedar	<i>Juniperus virginiana</i>	Occasional
Bur oak	<i>Quercus macrocarpa</i>	No regeneration
Red oak	<i>Quercus rubra</i>	No regeneration
Basswood	<i>Tilia americana</i>	Ubiquitous
Red elm	<i>Ulmus rubra</i>	Ubiquitous, sometimes invasive
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	Ubiquitous, over abundant
<b>Shrub layer</b>		
Glossy buckthorn	<i>Frangula alnus</i>	Found near mound features (29H) (nn)
Tartarian honeysuckle	<i>Lonicera tatarica</i>	Occasional (nn)
Chokecherry	<i>Prunus virginiana</i>	Occasional, sometimes invasive

Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous, especially rich lowlands (nn)
Prickly gooseberry	<i>Ribes cynosboti</i>	Ubiquitous
<b>Ground Layer</b>		
Garlic mustard	<i>Alliaria petiolate</i>	Ubiquitous, invasive, nitrophile
Wild leek	<i>Allium tricoccum</i>	Ravines, ephemeral
Hog peanut	<i>Amphicarpaea bracteata</i>	Upland soils
Burdock	<i>Arctium minus</i>	Invasive, nitrophile, (nn)
Wood anemone	<i>Anemone quinquefolia</i>	East bank, west aspect 29G - 29F
Columbine	<i>Aquilegia canadensis</i>	Scattered, openings
Pennsylvania sedge	<i>Carex pensylvanica</i>	Occasional
Starry sedge	<i>Carex rosea</i>	Occasional
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous
Canadian honewort	<i>Cryptotaenia canadensis</i>	Ubiquitous
Dutchman's breeches	<i>Dicentra cucullaria</i>	Large colony, west bank east aspect 29G-H
Yellow trout lily	<i>Erythronium americanum</i>	Small pop, west bank east aspect 29G-29H
Silky wild rye	<i>Elymus villosus</i>	Occasional, uplands openings
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous
Nodding fescue	<i>Festuca paradoxa</i>	Occasional
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous
Fragrant bedstraw	<i>Galium triflorum</i>	Ubiquitous, disturbed areas
Wild geranium	<i>Geranium maculatum</i>	Occasional, uplands
Hepatica	<i>Hepatica acutiloba</i>	Small pop, west bank east aspect 29G-H
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Ubiquitous
Motherwort	<i>Leonurus cardiaca</i>	Disturbed areas, eutrophic soils, (nn)
Sweet cicely	<i>Osmorhiza claytonii</i>	Ubiquitous
Bloodroot	<i>Sanguinaria canadensis</i>	Occasional

Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, openings, along trail edges
False solomon's plume	<i>Smilacina stellata</i>	Occasional
Zig zag goldenrod	<i>Solidago flexicaulis</i>	Ubiquitous
Panicled aster	<i>Symphyotrichum lanceolatum</i>	Ubiquitous, mesic to moist mesic, >35 sun
Rue anemone	<i>Thalictrum thalictroides</i>	Large pop, east bank, west aspect 29G-H
Nodding trillium	<i>Trillium cernuum</i>	Occasional
Snow trillium	<i>Trillium nivale</i>	Small pop, west bank east aspect 29G-H
Yellow violet	<i>Viola pubescens</i>	Occasional
Common blue violet	<i>Viola sororia</i>	Ubiquitous

Mound Springs Park West Uplands and Lowlands Species List

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	Occasional 39 A and 39C, edges
Silver maple	<i>Acer saccharinum</i>	Common 39C, 39H
Hackberry	<i>Celtis occidentalis</i>	A few large specimens (39A), many smaller trees throughout.
Black ash	<i>Fraxinus nigra</i>	Seeps 29H
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous, weedy
Butternut	<i>Juglans cinerea</i>	1 dead, SW corner 39C
Red cedar	<i>Juniperus virginiana</i>	Several in 39A SW corner
Cottonwood	<i>Populus deltoides</i>	39C, 39H, few historic trees, many smaller age classes
Bur oak	<i>Quercus macrocarpa</i>	Central – West 39A & SW 39C along trail
Red oak	<i>Quercus rubra</i>	Invasive in the upper east 39A, large specimens central – SW 39A
Black willow	<i>Salix nigra</i>	Seep, SW 39H
Black willow	<i>Salix nigra</i>	Seeps, shade intolerant, no regen

Basswood	<i>Tilia americana</i>	Ubiquitous uplands and lowlands
Siberian elm	<i>Ulmus pumila</i>	East edge 39A
Red elm	<i>Ulmus rubra</i>	Ubiquitous, becoming invasive
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	39A uplands, over abundant in places
<b>Shrub layer</b>		
Glossy buckthorn	<i>Frangula alnus</i>	Becoming more common in 39C – 39H (nn)
Tartarian honeysuckle	<i>Lonicera tatarica</i>	West 39A, sun obligate, (nn)
Chokecherry	<i>Prunus virginiana</i>	Common uplands 39A, sometimes invasive
Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous, eutrophic soils (nn)
Prickly gooseberry	<i>Ribes cynosboti</i>	Ubiquitous, good pop 39A near foot bridge
Pussy willow	<i>Salix discolor</i>	Wetlands, seeps, invasive w/o beaver
Bebb's willow	<i>Salix bebbiana</i>	Wetlands, seeps, invasive w/o beaver
Prickly ash	<i>Zanthoxylum americanum</i>	Occasional, sometimes invasive
<b>Ground layer</b>		
Garlic mustard	<i>Alliaria petiolata</i>	Ubiquitous, eutrophic soils, (nn)
Burdock	<i>Arctium lappa</i>	Occasional, eutrophic sunny soils (nn)
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, tolerant to high disturbance
Beggars ticks	<i>Bidens sp.</i>	Wetlands & seeps, yellow aster, > 50% sun
Marsh marigold	<i>Caltha palustris</i>	Seeps SW 29H
Spring cress	<i>Cardamine bulbosa</i>	Seeps SW 29H
Lake sedge	<i>Carex laucustris</i>	Seeps SW 29H
Pennsylvania sedge	<i>Carex pensylvanica</i>	Uplands, oligotrophic soils, > 30% sun
Prairie sedge	<i>Carex prairea</i>	Seeps, >50% sun
Starry sedge	<i>Carex rosea</i>	Uplands, oligotrophic soils, > 20% sun
Fen star sedge	<i>Carex sterilis</i>	Seeps, >50% sun

Tussock sedge	<i>Carex stricta</i>	Seeps SW 29H
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous, eutrophic soils, shade tolerant
Swamp thistle	<i>Cirsium muticum</i>	Lowlands, wetlands, seeps, >50% sun
Canadian honewort	<i>Cryptotaenia canadensis</i>	Lowlands, compacted soils, >30% sun
Dodder	<i>Cuscuta sp.</i>	Parasitic plant, seeps
Dutchman's breeches	<i>Dicentra cucullaria</i>	Uplands, ephemeral, streams, campments
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, openings, along trail
Silky wild rye	<i>Elymus villosus</i>	Occasional, openings, along trail
Horsetail	<i>Equisetum sp.</i>	Seeps, SW 39H
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous, uplands, disturbed areas, 39A
Nodding fescue	<i>Festuca paradoxa</i>	Occasional, openings along trail, uplands
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous, disturbed areas
Fragrant bedstraw	<i>Galium triflorum</i>	Ubiquitous, disturbed areas
Wild geranium	<i>Geranium maculatum</i>	Occasional, uplands, SW 39A
White avens	<i>Geum canadense</i>	Ubiquitous, disturbed areas
Virginia stickseed	<i>Hackelia virginiana</i>	Ubiquitous, disturbed areas, 39C
Dames rocket	<i>Hesperis matronalis</i>	Occasional 39A, eutrophic soils, (nn)
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Ubiquitous, disturbed areas
Touch-me-not	<i>Impatiens capensis</i>	Seeps, wetlands, 39H, 39C
Wood nettle	<i>Laportea canadensis</i>	Common, lowland, floodplain, compacted shady eutrophic soils
Rice cutgrass	<i>Leersia oryzoides</i>	Seeps, low nutrient wetlands, 39H SW
Sweet cicely	<i>Osmorhiza claytonii</i>	Ubiquitous, disturbed areas
Clearweed	<i>Pilea sp.</i>	Ubiquitous, disturbed areas, 39H, 39C
Smartweed	<i>Polygonum amphibium</i>	Seeps, low nutrient wetlands, wet prairie
Kidney leaf buttercup	<i>Ranunculus abortivus</i>	Wetlands, bare soils
Dwarf raspberry	<i>Rubus pubescens</i>	Seeps, low nutrient wetlands, wet prairie

Wild golden glow	<i>Rudbeckia laciniata</i>	Seeps, low nutrient wetlands, partial shade
Bloodroot	<i>Sanguinaria canadensis</i>	SW 39A
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, openings, along trail edges
Zig zag goldenrod	<i>Solidago flexicaulis</i>	West 39A
Skunk cabbage	<i>Symplocarpus foetidus</i>	Seeps, ephemeral SW 39H
Meadow rue	<i>Thalictrum dasycarpum</i>	Sunny wet, wet mesic areas
Yellow violet	<i>Viola pubescens</i>	Occasional, along trails, compact moist soils
Common blue violet	<i>Viola sororia</i>	Occasional, along trails

### Parker's Picnic Lowlands Species List

Common Name	Genus species	Field notes
<b>Canopy</b>		
Silver maple	<i>Acer saccharinum</i>	39C and 39G bluffland seeps
Black ash	<i>Fraxinus nigra</i>	Common
Green ash	<i>Fraxinus pennsylvanica</i>	Fringes, lowland
Black willow	<i>Salix nigra</i>	Dead & down
<b>Shrubs</b>		
Pussy willow	<i>Salix discolor</i>	Over grown
Bebb's willow	<i>Salix bebbiana</i>	Over grown
<b>Ground Layer</b>		
Beggars ticks	<i>Bidens sp.</i>	Continuous cover in sun
Marsh marigold	<i>Caltha palustris</i>	Occasional populations, near seeps
Spring cress	<i>Cardamine bulbosa</i>	Occasional
Lake sedge	<i>Carex laucustris</i>	Occasional
Prairie sedge	<i>Carex prairea</i>	Occasional
White avens	<i>Geum canadense</i>	Ubiquitous, disturbed soils
Touch-me-not	<i>Impatiens capensis</i>	Ubiquitous
Wood nettle	<i>Laportea canadensis</i>	Dominant in 39C
Watercress	<i>Nasturtium officinale</i>	At water discharge locations

Reed canary grass	<i>Phalaris arundinacea</i>	Small population, nutrient poor fen prevents dominance
Clearweed	<i>Pilea sp.</i>	Mud flats at perimeter
Smartweed	<i>Polygonum amphibium</i>	Ubiquitous
Dwarf raspberry	<i>Rubus pubescens</i>	Small pop. in sunniest patches
Golden glow	<i>Rudbeckia laciniata</i>	Better drained soils, openings, along trail
Skunk cabbage	<i>Symplocarpus foetidus</i>	In seeps, same area as marsh marigold
Meadow rue	<i>Thalictrum dasycarpum</i>	Better drained soils, openings, along trails

**Parker’s Picnic Uplands Species List**

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Hackberry	<i>Celtis occidentalis</i>	Ubiquitous
Green ash	<i>Fraxinus pennsylvanica</i>	Very common, competitive
Butternut	<i>Juglans cinerea</i>	Deceased to butternut canker
Red cedar	<i>Juniperus virginiana</i>	39E
Bur oak	<i>Quercus macrocarpa</i>	Old open growth common, no regeneration
Red oak	<i>Quercus rubra</i>	Very common uplands, no regeneration
Basswood	<i>Tilia americana</i>	Common, many age classes
Red elm	<i>Ulmus rubra</i>	Very common, competitive
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	Very common, competitive
<b>Shrub layer</b>		
Glossy buckthorn	<i>Frangula alnus</i>	Occasional, along trails
Tartarian honeysuckle	<i>Lonicera tatarica</i>	First invasive wave, < dominance (nn)
Chokecherry	<i>Prunus virginiana</i>	Native, sometimes invasive
Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous (nn)
Prickly ash	<i>Zanthoxylum americanum</i>	Occasional, sometimes invasive

Ground layer		
Garlic mustard	<i>Alliaria petiolata</i>	Ubiquitous, eutrophic soils, non-native (nn)
Columbine	<i>Aquilegia canadensis</i>	Occasional, scattered individual in sun
Burdock	<i>Arctium lappa</i>	Eutrophic soils, between 38A – 39D (nn)
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, tolerant to high disturbance
Tall bellflower	<i>Campanula americana</i>	Openings, along trail edges, dry-mesic to mesic
Pennsylvania sedge	<i>Carex pensylvanica</i>	Occasional, oligotrophic soils, some sun
Starry sedge	<i>Carex rosea</i>	Occasional, uplands, oligotrophic soils
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous, eutrophic soils, shade tolerant
Dutchman's breeches	<i>Dicentra cucullaria</i>	Large colony east aspect 39E
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, openings, along trail
Silky wild rye	<i>Elymus villosus</i>	Uplands, oligotrophic soils, some sun
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous, highly disturbed areas
Nodding fescue	<i>Festuca paradoxa</i>	Uplands, most shade tolerant grass
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous, disturbed areas
Fragrant bedstraw	<i>Galium triflorum</i>	Ubiquitous, disturbed areas
Wild geranium	<i>Geranium maculatum</i>	Occasional, uplands
White avens	<i>Geum canadense</i>	Ubiquitous, highly areas
Virginia stickseed	<i>Hackelia virginiana</i>	Ubiquitous, disturbed areas
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Ubiquitous
Bloodroot	<i>Sanguinaria canadensis</i>	Scattered individuals, oligotrophic soils
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, along trail edges
Zig zag goldenrod	<i>Solidago flexicaulis</i>	Fairly common, scattered pops, uplands
Meadow rue	<i>Thalictrum dasycarpum</i>	Trail cut through Excel RW
Nodding trillium	<i>Trillium cernuum</i>	Occasional, NW aspect 39D
Yellow violet	<i>Viola pubescens</i>	Occasional, along trails, patchy sunlight

Common blue violet	<i>Viola sororia</i>	Occasional, along trails, patchy sunlight
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**Pond Dakota Mission East Lowlands Species List**

<b>Common name</b>	<b>Genus species</b>	<b>Field notes</b>
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	38D, invasive
Silver maple	<i>Acer saccharinum</i>	38D, invasive
Hackberry	<i>Celtis occidentalis</i>	38C, becoming invasive
Black ash	<i>Fraxinus nigra</i>	38C, 38D Seeps and lowlands
Green ash	<i>Fraxinus pennsylvanica</i>	38C, 38D, few large specimens, invasive
Cottonwood	<i>Populus deltoides</i>	38D, shade intolerant, no regen
Bur oak	<i>Quercus macrocarpa</i>	38C a few specimens
Red oak	<i>Quercus rubra</i>	38C a few specimens
Red mulberry	<i>Morus rubra</i>	38C one small tree in stream at trail xing
Black willow	<i>Salix nigra</i>	38D, occasional
Basswood	<i>Tilia americana</i>	38C a few specimens
American elm	<i>Ulmus americana</i>	38C many dead trunks up in head waters
Red elm	<i>Ulmus rubra</i>	Common 38C, 38D, becoming invasive
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	38C east bank, sometimes over abundant
<b>Shrub layer</b>		
Glossy buckthorn	<i>Frangula alnus</i>	38D, increasingly invasive, lowlands, (nn)
Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous shade, rich lowlands (nn)
Pussy willow	<i>Salix discolor</i>	38D, invasive w/o beaver
Bebb's willow	<i>Salix bebbiana</i>	38D, invasive w/o beaver
Prickly ash	<i>Zanthoxylum americanum</i>	38C, trail xing
<b>Ground layer</b>		

Garlic mustard	<i>Alliaria petiolata</i>	Ubiquitous, eutrophic soils, non-native (nn)
Burdock	<i>Arctium lappa</i>	Sun, eutrophic soils, non-native (nn)
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, tolerant to high disturbance
Beggars ticks	<i>Bidens sp.</i>	38D, along stream
Lake sedge	<i>Carex laucustris</i>	38D, along stream
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous, eutrophic soils, shade tolerant
Canadian honewort	<i>Cryptotaenia canadensis</i>	Lowlands, compacted soils, >30% sun
Virginia wild rye	<i>Elymus virginicus</i>	38D, cobblestone soils perfect for VWR
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous, disturbed areas
Virginia stickseed	<i>Hackelia virginiana</i>	Ubiquitous, disturbed areas, trail xing
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Ubiquitous
Touch-me-not	<i>Impatiens capensis</i>	Ubiquitous, becoming invasive
Wood nettle	<i>Laportea canadensis</i>	38D, nitrophilic, invasive
Rice cutgrass	<i>Leersia oryzoides</i>	38C, 38D low nutrient wetlands, wet prairie
White grass	<i>Leersia virginica</i>	Disturbed areas, compacted moist soils
Motherwort	<i>Leonurus cardiaca</i>	Disturbed areas, eutrophic soils, (nn)
Watercress	<i>Nasturtium officinale</i>	38C, I headwater springs, seeps
Reed canary grass	<i>Phalaris arundinacea</i>	38D, eutrophic soils, both (nn) and native
Clearweed	<i>Pilea sp.</i>	Ubiquitous, disturbed areas
Fowl bluegrass	<i>Poa palustris</i>	38C, trail xing, nice population!
Smartweed	<i>Polygonum amphibium</i>	38D, low nutrient wetlands, wet prairie
Kidney leaf buttercup	<i>Ranunculus abortivus</i>	38D, wetlands, bare soils
Wild golden glow	<i>Rudbeckia laciniata</i>	38D, lowlands, partial shade
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, openings, along trail edges
Zig zag goldenrod	<i>Solidago flexicaulis</i>	38C, east ravine bank
Meadow rue	<i>Thalictrum dasycarpum</i>	38D, sunny moist meadows

Common blue violet	<i>Viola sororia</i>	Ubiquitous
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### Pond Dakota Mission Central Uplands Species List

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	38F NE flats, first invasive, now no regen
Hackberry	<i>Celtis occidentalis</i>	Ubiquitous, becoming invasive
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous, becoming invasive
Butternut	<i>Juglans cinerea</i>	38F Hulls found west aspect along stream
Red cedar	<i>Juniperus virginiana</i>	38F, 38B, few, no regen at this stage
White oak	<i>Quercus alba</i>	38F One large tree
Bur oak	<i>Quercus macrocarpa</i>	Uplands and lowlands, no regen
Red oak	<i>Quercus rubra</i>	Uplands and lowlands, no regen
Siberian elm	<i>Ulmus pumila</i>	38B, escarpment, 38F NE flats (nn)
Red elm	<i>Ulmus rubra</i>	Ubiquitous becoming invasive
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	Uplands, over abundant in places
<b>Shrub layer</b>		
Glossy buckthorn	<i>Frangula alnus</i>	Along trail (nn)
Tartarian honeysuckle	<i>Lonicera tatarica</i>	Early invasive heliophile, dwindling (nn)
Chokecherry	<i>Prunus virginiana</i>	Native, sometimes invasive
Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous shade, eutrophic soils (nn)
Prickly gooseberry	<i>Ribes cynosboti</i>	Ubiquitous
Prickly ash	<i>Zanthoxylum americanum</i>	38F, west aspect along stream
<b>Ground layer</b>		
Maidenhair fern	<i>Adiantum pedatum</i>	38F east aspect spring stream
Garlic mustard	<i>Alliaria petiolata</i>	Ubiquitous, eutrophic soils, (nn)
Wild leek	<i>Allium tricoccum</i>	38F east aspect spring stream

Hog peanut	<i>Amphicarpaea bracteata</i>	38F east aspect, upland soils
Columbine	<i>Aquilegia canadensis</i>	38F east aspect, upland soils
Burdock	<i>Arctium lappa</i>	38B, eutrophic soils, (nn)
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, disturbed sites
Pennsylvania sedge	<i>Carex pensylvanica</i>	38F, east aspect uplands, good pop.
Starry sedge	<i>Carex rosea</i>	38F, east aspect uplands
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous, eutrophic soils, shade tolerant
Canadian honewort	<i>Cryptotaenia canadensis</i>	Along trails, compacted soils
Dutchman's breeches	<i>Dicentra cucullaria</i>	38F, east aspect
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Along trails, compacted soils
Silky wild rye	<i>Elymus villosus</i>	38F west aspect, survivor afforestation
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous, highly disturbed areas
Nodding fescue	<i>Festuca paradoxa</i>	Uplands, scattered, survivor afforestation
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous, disturbed areas
Fragrant bedstraw	<i>Galium triflorum</i>	Ubiquitous, disturbed areas
Wild geranium	<i>Geranium maculatum</i>	Occasional, good pop. 38F east aspect
White avens	<i>Geum canadense</i>	Ubiquitous, disturbed areas
Virginia stickseed	<i>Hackelia virginiana</i>	Ubiquitous, disturbed areas
Dames rocket	<i>Hesperis matronalis</i>	Ubiquitous, disturbed eutrophic soils, (nn)
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Ubiquitous, tolerant to disturbance
Touch-me-not	<i>Impatiens capensis</i>	38F along stream, sometimes invasive
Wood nettle	<i>Laportea canadensis</i>	38B, ravine, river of nitrogen
Motherwort	<i>Leonurus cardiaca</i>	38B, ravine, river of nitrogen (nn)
Watercress	<i>Nasturtium officinale</i>	38F, headwater springs
Sweet cicely	<i>Osmorhiza claytonii</i>	Ubiquitous, tolerant to disturbance
Cowbane	<i>Oxypolis rigidior</i>	Seeps, low nutrient wetlands, wet prairie
Reed canary grass	<i>Phalaris arundinacea</i>	Where stream enters 38N

Wild blue phlox	<i>Phlox divaricata</i>	38F, east aspect, few plants
Clearweed	<i>Pilea sp.</i>	Ubiquitous, tolerant to disturbance
Bloodroot	<i>Sanguinaria canadensis</i>	Uplands, occasional, good pop. 38F east as.
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, openings, along trail edges
Zig zag goldenrod	<i>Solidago flexicaulis</i>	38F east aspect, uplands
Skunk cabbage	<i>Symplocarpus foetidus</i>	38F east aspect, seeps along stream
Early meadow rue	<i>Thalictrum dioicum</i>	38F, east aspect
Nodding trillium	<i>Trillium cernuum</i>	38F, east aspect
Common blue violet	<i>Viola sororia</i>	Ubiquitous

**Pond Dakota Mission West Uplands Species List**

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	38F encampment
Hackberry	<i>Celtis occidentalis</i>	Uplands and lowlands, few large specimens (39A) (38F), becoming over abundant
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous, becoming over abundant
Butternut	<i>Juglans cinerea</i>	Dead 38F encampment
Red cedar	<i>Juniperus virginiana</i>	38E, 38F, over abundant
Bur oak	<i>Quercus macrocarpa</i>	38E, 38F, no regen
Red oak	<i>Quercus rubra</i>	38E, 38F, no regen
Red mulberry	<i>Morus rubra</i>	Two gnarly trees near encampment
Basswood	<i>Tilia americana</i>	Common 38E, 38F
American elm	<i>Ulmus americana</i>	38F dead trees, encampment
Siberian elm	<i>Ulmus pumila</i>	38F, encampment
Red elm	<i>Ulmus rubra</i>	Ubiquitous, becoming over abundant
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	Uplands, over abundant in places
<b>Shrub layer</b>		

Glossy buckthorn	<i>Frangula alnus</i>	38F, Invasive (nn)
Tartarian honeysuckle	<i>Lonicera tatarica</i>	38E west, 38F encampment, Invasive (nn)
Chokecherry	<i>Prunus virginiana</i>	Ubiquitous, sometimes invasive
Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous, 38E, 38F, 38G (nn)
Prickly ash	<i>Zanthoxylum americanum</i>	38F encampment
<b>Ground layer</b>		
Garlic mustard	<i>Alliaria petiolata</i>	Invasive, eutrophic soils, non-native (nn)
Wild leek	<i>Allium tricoccum</i>	38E east
Columbine	<i>Aquilegia canadensis</i>	Occasional, partial sun obligate
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, disturbed areas
Pennsylvania sedge	<i>Carex pensylvanica</i>	Occasional, 38E, 38F
Starry sedge	<i>Carex rosea</i>	Uplands, oligotrophic soils, > 20% sun
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous, eutrophic soils, shade tolerant
Canadian honewort	<i>Cryptotaenia canadensis</i>	Lowlands, compacted soils
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, openings, along trail
Silky wild rye	<i>Elymus villosus</i>	Occasional, 38E, 38F, partial sun obligate
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous, disturbed areas, invasive
Nodding fescue	<i>Festuca paradoxa</i>	Occasional, uplands
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous, disturbed areas
Fragrant bedstraw	<i>Galium triflorum</i>	Ubiquitous, disturbed areas
Wild geranium	<i>Geranium maculatum</i>	Occasional, uplands, 38E, 38F
White avens	<i>Geum canadense</i>	Ubiquitous, disturbed areas
Virginia stickseed	<i>Hackelia virginiana</i>	Ubiquitous, disturbed areas
Dames rocket	<i>Hesperis matronalis</i>	38E east, residential eutrophic soils, (nn)
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Ubiquitous, disturbed areas
Motherwort	<i>Leonurus cardiaca</i>	Disturbed areas, eutrophic soils, (nn)

Hoary puccoon	<i>Lithospermum canescens</i>	38F, encampment
Bluebells	<i>Mertensia paniculata</i>	38E east, large colony
Sweet cicely	<i>Osmorhiza claytonii</i>	Ubiquitous, tolerant to high disturbance
Bloodroot	<i>Sanguinaria canadensis</i>	Occasional, 38E, 38F
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, openings, along trail edges
Zig zag goldenrod	<i>Solidago flexicaulis</i>	Occasional, 38E, 38F
Early meadow rue	<i>Thalictrum dioicum</i>	Uplands, oligotrophic soils, >25% sunlight
Common blue violet	<i>Viola sororia</i>	Uplands, oligotrophic soils, >30% sunlight

### Marshlands Species List

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Silver maple	<i>Acer saccharinum</i>	Wet prairie, floodplain, becoming invasive
Black ash	<i>Fraxinus nigra</i>	Seeps, marsh, and lowlands
Green ash	<i>Fraxinus pennsylvanica</i>	Wet prairie, becoming invasive
Cottonwood	<i>Populus deltoides</i>	Lowlands and floodplain, shade intolerant, no regen
Black willow	<i>Salix nigra</i>	Seeps, shade intolerant, no regen
American elm	<i>Ulmus americana</i>	Lowlands, rare, large dead trees
Red elm	<i>Ulmus rubra</i>	Common small trees, wet prairie
<b>Sub canopy</b>		
<b>Shrub layer</b>		
Silky Dogwood	<i>Cornus amomum</i>	38K
Red-osier Dogwood	<i>Cornus sericea</i>	38K, 38L, 38N
Glossy buckthorn	<i>Frangula alnus</i>	Invasive, wetlands lowlands, and uplands (nn)
Common buckthorn	<i>Rhamnus cathartica</i>	Invasive, especially rich lowlands (nn)
Pussy willow	<i>Salix discolor</i>	38L, 38N, becoming over abundant
Bebb's willow	<i>Salix bebbiana</i>	38L, 38N, becoming over abundant

Highbush Cranberry	<i>Viburnum opulus</i>	Lowlands, occasional
<b>Ground layer</b>		
Sweet flag	<i>Acorus calamus</i>	38L, 38N near seeps
Hog peanut	<i>Amphicarpaea bracteata</i>	Upland soils
Angelica	<i>Angelica atropurpurea</i>	Seeps with 50% sun
Marsh milkweed	<i>Asclepias incarnata</i>	Lowlands & seeps, > 50% sun
Beggars ticks	<i>Bidens sp.</i>	Wetlands & seeps, yellow aster, > 50% sun
Blue joint grass	<i>Calamagrostis canadensis</i>	Wetlands & seeps, > 50% sun
Marsh marigold	<i>Caltha palustris</i>	Seeps, ephemeral, >30% sun
Marsh Bellflower	<i>Campanula aparinoides</i>	38K mowed RW
Spring cress	<i>Cardamine bulbosa</i>	Seeps, ephemeral, >30% sun
Porcupine sedge	<i>Carex hystericina</i>	Seeps, >50% sun
Lake sedge	<i>Carex laucustris</i>	Ubiquitous, most shade tolerant sedge
Prairie sedge	<i>Carex prairea</i>	Seeps, >50% sun
Fen star sedge	<i>Carex sterilis</i>	38K, mowed RW
Tussock sedge	<i>Carex stricta</i>	Rare, 38K and near seeps
Fox sedge	<i>Carex vulpinoidea</i>	Common 38K, occasional 38L, 38N
Water hemlock	<i>Cicuta bulbifera</i>	38K
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, disturbed areas
Water Horsetail	<i>Equisetum fluniatale.</i>	Lowlands, wetlands, sun patches,
Joe-pye weed	<i>Eupatorium maculatum</i>	30E, 30F, 38K, 38L, 38N,
Boneset	<i>Eupatorium perfoliatum</i>	38K
Touch-me-not	<i>Impatiens capensis</i>	Ubiquitous, moist soils, wetlands, disturbed
Blue flag iris	<i>Iris versicolor</i>	Sun obligate, low nutrient wet prairie
Rice cutgrass	<i>Leersia oryzoides</i>	Seeps, low nutrient wetlands, wet prairie
White grass	<i>Leersia virginica</i>	Disturbed areas, compacted moist soils
American horehound	<i>Lycopus americanus</i>	38N, 38K
Purple Loosestrife	<i>Lythrum salicaria</i>	38K, 38L, 38N, Invasive

Common mint	<i>Mentha arvensis</i>	Common, some shade tolerance
Reed canary grass	<i>Phalaris arundinacea</i>	Wet soils, invasive, becoming more common
Clearweed	<i>Pilea sp.</i>	Muddy shady areas
Smartweed	<i>Polygonum amphibium</i>	Muddy shady areas
Dwarf raspberry	<i>Rubus pubescens</i>	Seeps, low nutrient wetlands, wet prairie
Wild golden glow	<i>Rudbeckia laciniata</i>	Moist soils, wetlands, partial shade
Curley dock	<i>Rumex crispus</i>	Moist, eutrophic soils, sun
Great water dock	<i>Rumex orbiculatus</i>	Common, wet prairie, carr
Broad arrowhead	<i>Sagittaria latifolia</i>	Occasional, seeps, low nutrient wetlands
Hardstem bulrush	<i>Scirpus acutus</i>	30E, 30F
Dark green bulrush	<i>Scirpus atrovirens</i>	30E, 30L, 30N
Marsh skullcap	<i>Scutellaria galericulata</i>	Occasional
Mad dog skullcap	<i>Scutellaria lateriflora</i>	Occasional
Bur reed	<i>Sparganium eurycarpum</i>	38K
Woundwort	<i>Stachys palustris</i>	38K
Skunk cabbage	<i>Symplocarpus foetidus</i>	38L, 38N near seeps
Meadow rue	<i>Thalictrum dasycarpum</i>	38L, 38N near seeps
Northern marsh fern	<i>Thelypteris palustris</i>	38L, 38N, in shade
Narrow leaf cattail	<i>Typha angustifolia</i>	Occasional patches, forming colonies
Hybrid Cattail	<i>Typha x glauca</i>	Occasional patches, forming colonies
Riverbank grape	<i>Vitis riparia</i>	In shady areas

### Flood Plain Species List

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	Early invasive, no current regen in shade
Silver maple	<i>Acer saccharinum</i>	Dominant, showing regen in shade
Black ash	<i>Fraxinus nigra</i>	Occasional, along fringe of 38N and 30E

Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous
Cottonwood	<i>Populus deltoides</i>	Dominant, no current regen in shade
Black willow	<i>Salix nigra</i>	Occasional, along fringe of 38N and 30E
American elm	<i>Ulmus americana</i>	Occasional, mainly dead trunks
Red elm	<i>Ulmus rubra</i>	Ubiquitous
<b>Sub canopy</b>		
<b>Shrub layer</b>		
Glossy buckthorn	<i>Frangula alnus</i>	Invasive
Common buckthorn	<i>Rhamnus cathartica</i>	Invasive, 2012 flood killed most standing
Smooth Wild Rose	<i>Rosa blanda</i>	Common in Excel Energy mowed RW
Pussy willow	<i>Salix discolor</i>	Occasional, along fringe of 38N and 30E
<b>Ground layer</b>		
Common agrimony	<i>Agrimonia gryposepala</i>	Common in Excel Energy mowed RW
Marsh milkweed	<i>Asclepias incarnata</i>	Common in Excel Energy mowed RW
Beggars ticks	<i>Bidens sp.</i>	Wetlands & seeps, yellow aster, > 50% sun
Tall bellflower	<i>Campanula americana</i>	Openings, along trail edges, dry-mesic to mesic
Porcupine sedge	<i>Carex hystericina</i>	Common in Excel Energy mowed RW
Lake sedge	<i>Carex laucustris</i>	Common in Excel Energy mowed RW
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, openings, along trail
Virginia wild rye	<i>Elymus virginicus</i>	Well drained soils, partial shade tolerant
Water Horsetail	<i>Equisetum fluniatale.</i>	Common in sun patches within woods,
White snakeroot	<i>Eupatorium rugosum</i>	Dominant shady ground cover
Touch-me-not	<i>Impatiens capensis</i>	Occasional in Excel Energy mowed RW
Blue flag iris	<i>Iris versicolor</i>	Common in Excel Energy mowed RW
Wood nettle	<i>Laportea canadensis</i>	Dominant shady ground cover, nitrophile

White grass	<i>Leersia virginica</i>	Disturbed areas, compacted moist soils
Motherwort	<i>Leonurus cardiaca</i>	Disturbed areas, eutrophic soils, sun, (nn)
Common mint	<i>Mentha arvensis</i>	Common in Excel Energy mowed RW
Woodbine	<i>Parthenocissus inserta</i>	Dominant shady ground cover
Reed canary grass	<i>Phalaris arundinacea</i>	Invasive, along fringe of 38N, 30E
Clearweed	<i>Pilea sp.</i>	Ubiquitous, disturbed areas
Smartweed	<i>Polygonum amphibium</i>	Occasional, partial sun, wet, Excel ROW
Wild golden glow	<i>Rudbeckia laciniata</i>	50% sun, along trails, Excel ROW
Meadow rue	<i>Thalictrum dasycarpum</i>	Common in Excel Energy mowed ROW
Yellow violet	<i>Viola pubescens</i>	Uplands, oligotrophic soils, >30% sunlight
Riverbank grape	<i>Vitis riparia</i>	Dominant ground cover, sun, arboreal

**Hopkin's Farm Species List**

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	38F encampment
Hackberry	<i>Celtis occidentalis</i>	Ubiquitous, becoming invasive
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous, becoming invasive
Red cedar	<i>Juniperus virginiana</i>	A few scattered stressed individuals
Bur oak	<i>Quercus macrocarpa</i>	Scattered open growth trees, no regen
Red oak	<i>Quercus rubra</i>	Few large stressed, many smaller, no regen
Red elm	<i>Ulmus rubra</i>	Ubiquitous, becoming invasive
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	Uplands, sometimes over abundant
<b>Shrub layer</b>		
Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous, dense stands (nn)
Prickly ash	<i>Zanthoxylum americanum</i>	Few

Ground layer		
Garlic mustard	<i>Alliaria petiolata</i>	Ubiquitous, eutrophic soils, non-native (nn)
Burdock	<i>Arctium lappa</i>	Sun, eutrophic soils, non-native (nn)
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, disturbed areas
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous, eutrophic soils, shade tolerant
Canadian honewort	<i>Cryptotaenia canadensis</i>	Lowlands, compacted soils, along trails
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous, disturbed areas, invasive
Nodding fescue	<i>Festuca paradoxa</i>	Occasional, uplands
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous, disturbed areas
White avens	<i>Geum canadense</i>	Ubiquitous, disturbed areas
Virginia stickseed	<i>Hackelia virginiana</i>	Ubiquitous, disturbed areas
Dames rocket	<i>Hesperis matronalis</i>	Dense stands (nn)
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Ubiquitous, disturbed areas
Wood nettle	<i>Laportea canadensis</i>	Lowlands,
Motherwort	<i>Leonurus cardiaca</i>	Disturbed areas, eutrophic soils, (nn)
Sweet cicely	<i>Osmorhiza claytonii</i>	Ubiquitous, disturbed areas
Woodbine	<i>Parthenocissus inserta</i>	Occasional, throughout
Clearweed	<i>Pilea sp.</i>	Ubiquitous, lowlands
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, compacted soils along trail
Common blue violet	<i>Viola sororia</i>	Uplands, oligotrophic soils, >30% sunlight

Anderson Park Species Uplands and Lowlands Species List

Common name	Genus species	Field notes
Canopy trees		
Box elder	<i>Acer negundo</i>	Common, mantle in floodplain 46V, and along disturbed soils 35W construction
Silver maple	<i>Acer saccharinum</i>	Wetlands, floodplain, 46CC, 46V, some scattered old growth open canopy trees

Black ash	<i>Fraxinus nigra</i>	Seeps, marsh, and lowlands, common, some huge trees in 46V 46W
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous, invasive
Red cedar	<i>Juniperus virginiana</i>	Occasional, blufflands, most dead, no regen in shade
Hackberry	<i>Celtis occidentalis</i>	Blufflands, sometimes invasive
Cottonwood	<i>Populus deltoides</i>	Lowlands, floodplain, 35W construction, no regen in shade, some open growth form in convergence 46V, 46W, 46X
Quacking aspen	<i>Populus tremuloides</i>	Once common, now almost extirpated, one tree in 46D,
Bur oak	<i>Quercus macrocarpa</i>	Blufflands, old growth, no regen
Northern pin oak	<i>Quercus ellipsoidalis</i>	Once more common, now rare, found only 46B
Red oak	<i>Quercus rubra</i>	Blufflands, occasional in this Unit, no regen
Black willow	<i>Salix nigra</i>	Seeps, lakeshore, shade intolerant, no regen
Basswood	<i>Tilia americana</i>	Blufflands, ravines, often within oak groves
American elm	<i>Ulmus americana</i>	Lowlands, rare, large dead trees
Siberian elm	<i>Ulmus pumila</i>	Blufflands, invasive in openings
Red elm	<i>Ulmus rubra</i>	Ubiquitous, sometimes invasive
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	Blufflands, occasional in this unit
<b>Shrub layer</b>		
Leadplant	<i>Amorpha canescens</i>	Once common, now rare, sunny knolls, 46B
False Indigo	<i>Amorpha fruticosa</i>	Occasional, 46W, 46X, 46Y, 46Z,
Silky Dogwood	<i>Cornus amomum</i>	Occasional, 46W, 46X, 46Y, 46Z
Red-osier Dogwood	<i>Cornus sericea</i>	Occasional, 46W, 46X, 46Y, 46Z

Glossy buckthorn	<i>Frangula alnus</i>	Becoming increasingly invasive, wetlands lowlands, and Blufflands (nn)
Tartarian honeysuckle	<i>Lonicera tatarica</i>	Common 46A, 46D, 46B, symptom of recent afforestation (nn)
Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous, shade, eutrophic soils
Chokecherry	<i>Prunus virginiana</i>	Occasional, sometimes invasive
Smooth sumac	<i>Rhus glabra</i>	Once common, now rare, limited to sunny knolls, 46B
Prickly gooseberry	<i>Ribes cynosboti</i>	Ubiquitous, uplands, ravines, lowland
Pussy willow	<i>Salix discolor</i>	Occasional, 46Y, 46W, 46X
Bebb's willow	<i>Salix bebbiana</i>	Occasional, 46Y, 46W, 46X
Sandbar willow	<i>Salix interior</i>	Wetlands, common, invasive 46Z, 46Z
Prickly ash	<i>Zanthoxylum americanum</i>	Occasional, sometimes invasive, 46A, 46B
<b>Ground layer</b>		
Yarrow	<i>Achillea millefolium</i>	Once common, now rare, limited to sunny knolls, 46B
Sweet flag	<i>Acorus calamus</i>	Near seeps, 46Y, 46Z
Garlic mustard	<i>Alliaria petiolata</i>	Ubiquitous, uplands, shade, eutrophic soils
Ragweed	<i>Ambrosia coronopifolia</i>	Once common, now rare, limited to sunny knolls, 46B
Giant Ragweed	<i>Ambrosia trifida</i>	Lowlands, floodplains, sun, eutrophic soils
Hog peanut	<i>Amphicarpaea bracteata</i>	Ubiquitous, shade obligate, 46AA
Big bluestem	<i>Andropogon gerardii</i>	Once common, now rare, few plants 46B
Angelica	<i>Angelica atropurpurea</i>	Seeps with 50% sun, 46AA few plants
Pasque flower	<i>Anemone patens</i>	<del>Found in 2006, but not in 2017</del>
Pussytoes	<i>Antennaria plantaginifolia</i>	<del>Found in 2006, but not in 2017</del>
Columbine	<i>Aquilegia canadensis</i>	Uplands, > 50% sun, few plants 46C, 46D

Burdock	<i>Arctium lappa</i>	Ubiquitous, eutrophic soils, disturbed areas, (nn)
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, blufflands, disturbed areas
Marsh milkweed	<i>Asclepias incarnata</i>	Wet mesic, and wet prairie, sun, 46V
Common milkweed	<i>Asclepias syriaca</i>	Sunny disturbed areas, nitrophile, sun, 46V
Whorled milkweed	<i>Asclepias verticillata</i>	46B
Green milkweed	<i>Asclepias viridiflora</i>	Found in 2006, but not in 2017
Ground plum	<i>Astragalus crassicaulus</i>	Not recorded in the 2006 survey, 1 plant, 46B
Heath aster	<i>Aster ericoides</i>	Once common, now rare, limited to sunny knolls, 46B
Aromatic aster	<i>Aster oblongifolius</i>	Once common, now rare, limited to sunny knolls, 46B
Silky aster	<i>Aster sericeus</i>	Found in 2006, but not in 2017
Beggars ticks	<i>Bidens sp.</i>	Ubiquitous throughout wet areas
Side-oats grama	<i>Bouteloua curtipendula</i>	Once common, now rare, limited to sunny knolls, 46B
Hairy grama	<i>Bouteloua hirsuta</i>	Found in 2006, but not in 2017
Smooth brome	<i>Bromus inermis</i>	Invasive 46A 46B
Ear-leaved brome	<i>Bromus latiglumis</i>	Occasional, floodplain terrace, partial sun, 46V
Blue joint grass	<i>Calamagrostis canadensis</i>	Wetlands & seeps, > 50% sun, convergence 46V, 46W, 46X, and also sun patches 46CC
Marsh marigold	<i>Caltha palustris</i>	Seeps, 46AA
Toothed primrose	<i>Calylophus serrulatus</i>	Once common, now rare, sunny knolls 46B
Spring cress	<i>Cardamine bulbosa</i>	Seeps, 46AA
Common wood sedge	<i>Carex blanda</i>	Disturbed areas, associated with woody encroachment, 46A, 46B
Porcupine sedge	<i>Carex hystericina</i>	Seeps, >50% sun, 46W, 46X

Lake sedge	<i>Carex laucustris</i>	Wetlands, common, 50% shade tolerant, 46W, 46X
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous throughout uplands & lowlands
Horseweed	<i>Conyza, canadensis</i>	Uplands, common, sunny disturbed knolls
Crown Vetch	<i>Coronilla varia</i>	Dominate 46A
Canadian honewort	<i>Cryptotaenia canadensis</i>	Ubiquitous, compacted soils, >30% sun
Purple prairie-clover	<i>Dalea purpurea</i>	Found in 2006, but not in 2017
Rough Barnyard Grass	<i>Echinochloa muricata</i>	Common, mud flats, disturbed wetlands
Silky wild rye	<i>Elymus villosus</i>	Uplands, oligotrophic soils, 46C, 46D
Virginia wild rye	<i>Elymus virginicus</i>	Floodplain terrace, mixed in with lake sedge, 46V
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, disturbed areas
Water Horsetail	<i>Equisetum fluniatale.</i>	Lowlands, wetlands, sun, disturbed areas
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous, disturbed areas, 46V, 46D, 46C
Leafy spurge	<i>Euphorbia esula</i>	Dry knolls, invasive 46A, 46B (nn)
Annual bedstraw	<i>Galium aparium</i>	Floodplain, disturbed areas
Wild geranium	<i>Geranium maculatum</i>	Occasional, uplands, 46D, 46C
White avens	<i>Geum canadense</i>	Ubiquitous, disturbed areas
Virginia stickseed	<i>Hackelia virginiana</i>	Lowlands, ravines, disturbed areas, 46D
Dames rocket	<i>Hesperis matronalis</i>	Lowlands, ravines, eutrophic soils, (nn)
Golden aster	<i>Heterotheca villosa</i>	Once common, now rare, 46B
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Blufflands, lowlands, disturbed areas
Touch-me-not	<i>Impatiens capensis</i>	Ubiquitous, moist soils, wetlands, seeps
June grass	<i>Koeleria pyramidata</i>	Once common, now rare, sunny knolls, 46B
False boneset	<i>Kuhnia eupatorioides</i>	Found in 2006, but not in 2017

Wood nettle	<i>Laportea canadensis</i>	Lowlands, floodplain, nitrophilic, invasive
Rice cutgrass	<i>Leersia oryzoides</i>	Seeps, low nutrient wetlands, wet prairie
White grass	<i>Leersia virginica</i>	Disturbed areas, compacted moist soils
Motherwort	<i>Leonurus cardiaca</i>	Disturbed areas, ravines, eutrophic soils, (nn)
Dotted blazing star	<i>Liatris punctata</i>	Once common, now rare, 46B, 2 plants
Yellow flax	<i>Linum sp.</i>	Once common, now rare, Sunny knolls, 46B
Hoary puccoon	<i>Lithospermum canescens</i>	Once common, now rare, Sunny knolls, 46B
American horehound	<i>Lycopus americanus</i>	Occasional, wetlands
Virginia Bugleweed	<i>Lycopus virginicus</i>	Common, wetlands, 46W, 46X
Purple Loosestrife	<i>Lythrum salicaria</i>	Occasional, wetlands (nn)
Plains muhly	<i>Muhlenbergia cuspidata</i>	Once common, now rare, sunny knoll, 46B
False gromwell	<i>Onosmodium molle</i>	Never common, now rare, sunny knolls, 46A, 46B
Scribner's panic grass	<i>Panicum oligosanthos</i>	Once common, now rare, Sunny knolls, 46B
Woodbine	<i>Parthenocissus inserta</i>	Ubiquitous, blufflands, lowlands, floodplain
Reed canary grass	<i>Phalaris arundinacea</i>	Wet soils, dominate Nine Mile Creek delta
Clammy ground cherry	<i>Physalis heterophylla</i>	Occasional, sunny knolls, 46A, 46B
Clearweed	<i>Pilea sp.</i>	Ubiquitous, muddy-shady areas
Kentucky bluegrass	<i>Poa pratensis</i>	Sunny uplands, 46A, 46B, invasive
Smartweed	<i>Polygonum amphibium</i>	Ubiquitous, muddy-shady areas
Marsh Waterpepper	<i>Polygonum hydropiper</i>	Common in marshlands
Tall cinquefoil	<i>Potentilla arguta</i>	Once common, now only 46B
Kidney leaf buttercup	<i>Ranunculus abortivus</i>	Wetlands, bare soils, 46CC

Dwarf raspberry	<i>Rubus pubescens</i>	Seeps, low nutrient wetlands, 46Z, 46AA,
Wild golden glow	<i>Rudbeckia laciniata</i>	Common, floodplains, wetland fringe, shade obligate
Broad arrowhead	<i>Sagittaria latifolia</i>	Common, 46z, 46W, 46X, 46BB
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, ravines, lowlands, floodplain
Little bluestem	<i>Schizachyrium scoparium</i>	Once common, sunny knolls, now only 46B
Hardstem bulrush	<i>Scirpus acutus</i>	Occasional, mixed emergent marsh
Dark green bulrush	<i>Scirpus atrovirens</i>	Occasional, wet prairie, emergent marsh
River Bulrush	<i>Scirpus fluviatilis</i>	Major dominate in marshlands
Bur Cucumber	<i>Sicyos angulatus</i>	Common in floodplains, lowlands
Canada goldenrod	<i>Solidago canadensis</i>	Occasional, floodplain, sun
Giant goldenrod	<i>Solidago gigantea</i>	Occasional, floodplain, sun, 46V
Gray goldenrod	<i>Solidago nemoralis</i>	Once common, now rare, sunny knolls, 46B
Indian grass	<i>Sorghastrum nutans</i>	Once common, now rare, sunny knolls, 46B
Prairie dropseed	<i>Sporobolus heterolepis</i>	Once common, now rare, sunny knolls, 46B
Porcupine grass	<i>Stipa spartea</i>	Once common, sunny knolls, now rare, 46B
Skunk cabbage	<i>Symplocarpus foetidus</i>	Occasional seeps, 46Z, 46AA
Meadow rue	<i>Thalictrum dasycarpum</i>	Occasional, seeps, 46Z, 46AA
Spiderwort	<i>Tradescantia occidentalis</i>	Once common, now rare, few plants 46A, 46B,
Nodding trillium	<i>Trillium cernuum</i>	Uplands, oligotrophic soils, >20% sunlight, 46D
Stinging Nettle	<i>Urtica dioica</i>	Lowlands, floodplains, eutrophic soils, disturbed areas, common in sun patches 46V
Hoary vervain	<i>Verbena stricta</i>	Found in 2006, but not in 2017

Bearded birdfoot	<del>Viola palmata var. pedatifida</del>	Found in 2006, but not in 2017
Yellow violet	<i>Viola pubescens</i>	Uplands, floodplain >30% sunlight
Common blue violet	<i>Viola sororia</i>	Uplands, >30% sunlight
Riverbank grape	<i>Vitis riparia</i>	Floodplains, common throughout

Colman Lake Uplands and Lowlands Species List

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	Common, 49A, 49J, near seeps
Silver maple	<i>Acer saccharinum</i>	Wet prairie, floodplain, becoming invasive
Black ash	<i>Fraxinus nigra</i>	Seeps, marsh, and lowlands
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous
Red cedar	<i>Juniperus virginiana</i>	Occasional, blufflands
Hackberry	<i>Celtis occidentalis</i>	Blufflands, 45D, 44F
Red mulberry	<i>Morus rubra</i>	Common, floodplain
Cottonwood	<i>Populus deltoides</i>	Lowlands, floodplain, no regen in shade
Bur oak	<i>Quercus macrocarpa</i>	Blufflands, no regen
Red oak	<i>Quercus rubra</i>	Blufflands, no regen
Black willow	<i>Salix nigra</i>	Seeps, shade intolerant, no regen
Basswood	<i>Tilia americana</i>	Bluffland ravines
American elm	<i>Ulmus americana</i>	Lowlands, rare, large dead trees
Red elm	<i>Ulmus rubra</i>	Common small trees, wet prairie
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	Uplands, over abundant in places
<b>Shrub layer</b>		
Glossy buckthorn	<i>Frangula alnus</i>	Becoming increasingly invasive, wetlands lowlands, and Blufflands(nn)
Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous, invasive, shade, shade eutrophic soils

Chokecherry	<i>Prunus virginiana</i>	Occasional, sometimes invasive
Pussy willow	<i>Salix discolor</i>	Occasional, wetlands
Bebb's willow	<i>Salix bebbiana</i>	Occasional, wetlands
Sandbar willow	<i>Salix interior</i>	Becoming invasive 45C, and east 45B
Highbush Cranberry	<i>Viburnum opulus</i>	Lowlands, occasional
Prickly ash	<i>Zanthoxylum americanum</i>	Occasional, sometimes invasive
<b>Ground layer</b>		
Sweet flag	<i>Acorus calamus</i>	Near seeps
Garlic mustard	<i>Alliaria petiolata</i>	Ubiquitous, shade, eutrophic soils
Hog peanut	<i>Amphicarpaea bracteata</i>	Ubiquitous, shade obligate
Angelica	<i>Angelica atropurpurea</i>	Seeps with 50% sun
Burdock	<i>Arctium lappa</i>	Sun, eutrophic soils, non-native (nn)
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, bluffs, disturbed areas
Marsh milkweed	<i>Asclepias incarnata</i>	Occasional in wet prairie
Common milkweed	<i>Asclepias syriaca</i>	Sunny Disturbed areas, nitrophile, 49A
Beggars ticks	<i>Bidens sp.</i>	Ubiquitous throughout wet areas
Blue joint grass	<i>Calamagrostis canadensis</i>	Occasional, calcareous wetlands
Marsh marigold	<i>Caltha palustris</i>	Seeps, ephemeral, shade tolerant
Spring cress	<i>Cardamine bulbosa</i>	Seeps, ephemeral, shade tolerant
Porcupine sedge	<i>Carex hystericina</i>	Seeps, wetlands >50% sun
Lake sedge	<i>Carex laucustris</i>	Wetlands, common, shade tolerant
Prairie sedge	<i>Carex prairea</i>	Occasional, seeps, calcareous wetlands
Fox sedge	<i>Carex vulpinoidea</i>	Common to occasional wetlands
Wood Reed Grass	<i>Cinna arundinacea</i>	Occasional, floodplain, shade tolerant
Great spike rush	<i>Eleocharis palustris</i>	Occasional, calcareous wetlands
Virginia wild rye	<i>Elymus virginicus</i>	Floodplain terrace, common, partial shade
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, disturbed areas
Water Horsetail	<i>Equisetum fluniatale.</i>	Lowlands, wetlands, sun patches,

Joe-pye weed	<i>Eupatorium maculatum</i>	Occasional wet prairie
Boneset	<i>Eupatorium perfoliatum</i>	Seeps, wetlands, shorelands
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous, highly disturbed areas
Annual bedstraw	<i>Galium aparium</i>	Floodplain, disturbed areas
Virginia stickseed	<i>Hackelia virginiana</i>	Ubiquitous, highly disturbed areas
Dames rocket	<i>Hesperis matronalis</i>	Uplands, eutrophic soils, (nn)
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Blufflands, lowlands, disturbed areas
Touch-me-not	<i>Impatiens capensis</i>	Ubiquitous, moist soils, wetlands, disturbed
Blue flag iris	<i>Iris versicolor</i>	Occasional, wet prairie
Wood nettle	<i>Laportea canadensis</i>	Lowlands, floodplain, nitrophilic, invasive
Rice cutgrass	<i>Leersia oryzoides</i>	Seeps, low nutrient wetlands, wet prairie
White grass	<i>Leersia virginica</i>	Disturbed areas, compacted moist soils
Motherwort	<i>Leonurus cardiaca</i>	Disturbed areas, eutrophic soils, (nn)
American horehound	<i>Lycopus americanus</i>	Common, wetlands
Purple Loosestrife	<i>Lythrum salicaria</i>	Occasional, wetlands, invasive (nn)
Common mint	<i>Mentha arvensis</i>	Common, some shade tolerance
Watercress	<i>Nasturtium officinale</i>	In springs, seeps, at the point of discharge
Woodbine	<i>Parthenocissus inserta</i>	Ubiquitous, blufflands, lowlands, floodplain
Reed canary grass	<i>Phalaris arundinacea</i>	Wet soils, becoming more common, invasive
Clearweed	<i>Pilea sp.</i>	Muddy shady areas
Fowl bluegrass	<i>Poa palustris</i>	Streams, seeps, oligotrophic soils,
Smartweed	<i>Polygonum amphibium</i>	Muddy shady areas
Dwarf raspberry	<i>Rubus pubescens</i>	Seeps, low nutrient wetlands, wet prairie
Wild golden glow	<i>Rudbeckia laciniata</i>	Moist soils, wetlands, partial shade
Curley dock	<i>Rumex crispus</i>	Moist, eutrophic soils, sun

Great water dock	<i>Rumex orbiculatus</i>	Common, wet prairie, carr
Broad arrowhead	<i>Sagittaria latifolia</i>	Occasional, seeps, low nutrient wetlands
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, blufflands, lowlands, floodplain
Hardstem bulrush	<i>Scirpus acutus</i>	Occasional, mixed emergent marsh
Dark green bulrush	<i>Scirpus atrovirens</i>	Common, wet prairie, emergent marsh
Marsh skullcap	<i>Scutellaria galericulata</i>	Occasional, seeps, wet prairie
Mad dog skullcap	<i>Scutellaria lateriflora</i>	Occasional, seeps, wet prairie
Canada goldenrod	<i>Solidago canadensis</i>	Occasional, floodplain, sun
Bur reed	<i>Sparganium eurycarpum</i>	Occasional, wet prairie, emergent marsh
Woundwort	<i>Stachys palustris</i>	Occasional, floodplain, full to partial sun
Skunk cabbage	<i>Symplocarpus foetidus</i>	Common in seeps, shade tolerant
Meadow rue	<i>Thalictrum dasycarpum</i>	Occasional, seeps
Northern marsh fern	<i>Thelypteris palustris</i>	Occasional to common, shade tolerant
Narrow leaf cattail	<i>Typha angustifolia</i>	Occasional patches, forming colonies
Hybrid Cattail	<i>Typha x glauca</i>	Occasional patches, forming colonies
Riverbank grape	<i>Vitis riparia</i>	Common, floodplains

**Savage Bridge Species List**

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	Common
Silver maple	<i>Acer saccharinum</i>	Not as common here
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous, becoming invasive
Cottonwood	<i>Populus deltoides</i>	Common, invasive
Black willow	<i>Salix nigra</i>	Occasional trees in wet areas
American elm	<i>Ulmus americana</i>	Rare, mainly dead fallen trunks
Red elm	<i>Ulmus rubra</i>	Common, invasive
<b>Sub canopy</b>		
<b>Shrub layer</b>		

Silky Dogwood	<i>Cornus amomum</i>	Occasional 47D, 48B
Red-osier Dogwood	<i>Cornus sericea</i>	Occasional 47D, 48B
Glossy buckthorn	<i>Frangula alnus</i>	Becoming increasingly invasive, lowlands
Common buckthorn	<i>Rhamnus cathartica</i>	Common throughout, invasive (nn)
Smooth sumac	<i>Rhus glabra</i>	SW corner 43A
Prickly gooseberry	<i>Ribes cynosboti</i>	Occasional, partial sun
Sandbar willow	<i>Salix interior</i>	Wetlands, sand bars, invasive w/o beaver
Prickly ash	<i>Zanthoxylum americanum</i>	SW corner 43A
<b>Ground layer</b>		
Sweet flag	<i>Acorus calamus</i>	Common 47D 48B
Big bluestem	<i>Andropogon gerardii</i>	SW corner 43A
Burdock	<i>Arctium lappa</i>	Occasional, higher elevations, partial sun
Common milkweed	<i>Asclepias syriaca</i>	Sunny openings 48A
Spring cress	<i>Cardamine bulbosa</i>	48B
Porcupine sedge	<i>Carex hystericina</i>	48B, common
Lake sedge	<i>Carex laucustris</i>	48B common
Fox sedge	<i>Carex vulpinoidea</i>	47D, 48B
Swamp thistle	<i>Cirsium muticum</i>	Sunny openings 48A
Canadian honewort	<i>Cryptotaenia canadensis</i>	Lowlands, compacted soils, >30% sun
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, openings, along trail
Slender wheatgrass	<i>Elymus trachycaulus</i>	Sunny openings 48A
Virginia wild rye	<i>Elymus virginicus</i>	Common throughout
Water Horsetail	<i>Equisetum fluniatale.</i>	Common throughout
Joe-pye weed	<i>Eupatorium maculatum</i>	Occasional 47D, 48B
Boneset	<i>Eupatorium perfoliatum</i>	Occasional 47D, 48B
White snakeroot	<i>Eupatorium rugosum</i>	Occasional, better drained soils
Annual bedstraw	<i>Galium aparium</i>	Ubiquitous, highly disturbed areas

Touch-me-not	<i>Impatiens capensis</i>	Seeps, wetlands, becoming invasive
Wood nettle	<i>Laportea canadensis</i>	Dominant shade, invasive
Rice cutgrass	<i>Leersia oryzoides</i>	Occasional, wet sunny areas
White grass	<i>Leersia virginica</i>	Occasional, compacted moist soils
American horehound	<i>Lycopus americanus</i>	Common, 47D, 48B
Purple Loosestrife	<i>Lythrum salicaria</i>	Occasional, invasive 47D, 48B
Common mint	<i>Mentha arvensis</i>	Common, 47D, 48B
Wild bergamot	<i>Monarda fistulosa</i>	SW corner 43A
Woodbine	<i>Parthenocissus inserta</i>	Common 48A
Reed canary grass	<i>Phalaris arundinacea</i>	Common throughout, invasive
Clearweed	<i>Pilea sp.</i>	Ubiquitous, tolerant to high disturbance
Smartweed	<i>Polygonum amphibium</i>	Common, 47D, 48B
Yellow coneflower	<i>Ratibida pinnata</i>	SW corner 43A
Wild golden glow	<i>Rudbeckia laciniata</i>	Seeps, low nutrient wetlands, partial shade
Great water dock	<i>Rumex orbiculatus</i>	Occasional 47D, 48B
Broad arrowhead	<i>Sagittaria latifolia</i>	Occasional 47D, 48B
Clustered snakeroot	<i>Sanicula gregaria</i>	Along trail edges
Little bluestem	<i>Schizachyrium scoparium</i>	SW corner 43A
Hardstem bulrush	<i>Scirpus acutus</i>	Occasional 47D, 48B
Dark green bulrush	<i>Scirpus atrovirens</i>	Common, 47D, 48B
Marsh skullcap	<i>Scutellaria galericulata</i>	Occasional 47D, 48B
Mad dog skullcap	<i>Scutellaria lateriflora</i>	Occasional 47D, 48B
Water parsnip	<i>Sium suave</i>	Occasional 47D, 48B
Indian grass	<i>Sorghastrum nutans</i>	SW corner 43A
Bur reed	<i>Sparganium eurycarpum</i>	Occasional 47D, 48B
Woundwort	<i>Stachys palustris</i>	Occasional 47D, 48B
Ontario Aster	<i>Symphotrichum ontarionis</i>	Common 48A
Narrow leaf cattail	<i>Typha angustifolia</i>	Occasional 47D, 48B

Hybrid Cattail	<i>Typha x glauca</i>	Occasional 47D, 48B
Riverbank grape	<i>Vitis riparia</i>	Common 48A

### Nine Mile Creek Uplands and Lowlands Species List

Common name	Genus species	Field notes
<b>Canopy trees</b>		
Box elder	<i>Acer negundo</i>	Common, 45J floodplain and near seeps
Silver maple	<i>Acer saccharinum</i>	Wet prairie, floodplain, becoming invasive
Black ash	<i>Fraxinus nigra</i>	Seeps, marsh, and lowlands
Green ash	<i>Fraxinus pennsylvanica</i>	Ubiquitous
Red cedar	<i>Juniperus virginiana</i>	Occasional, bluffslands
Hackberry	<i>Celtis occidentalis</i>	Bluffslands, sometimes invasive
Red mulberry	<i>Morus rubra</i>	Common, floodplain, 45J
Cottonwood	<i>Populus deltoides</i>	Lowlands, floodplain, no regen in shade, possible bearing tree, west section 45J
Bur oak	<i>Quercus macrocarpa</i>	Bluffslands, no regen
Red oak	<i>Quercus rubra</i>	Bluffslands, no regen
Black willow	<i>Salix nigra</i>	Seeps, lakeshore, shade intolerant, no regen
Basswood	<i>Tilia americana</i>	Bluffslands, ravines, often with the oaks
American elm	<i>Ulmus americana</i>	Lowlands, rare, large dead trees
Red elm	<i>Ulmus rubra</i>	Ubiquitous, sometimes invasive
<b>Sub canopy</b>		
Ironwood	<i>Ostrya virginiana</i>	Uplands, over abundant in places
<b>Shrub layer</b>		
Glossy buckthorn	<i>Frangula alnus</i>	Invasive,, wetlands lowlands, and Bluffslands(nn)
Common buckthorn	<i>Rhamnus cathartica</i>	Ubiquitous, invasive, shade, eutrophic soils
Chokecherry	<i>Prunus virginiana</i>	Occasional, sometimes invasive

Prickly gooseberry	<i>Ribes cynosboti</i>	Ubiquitous, uplands, ravines, lowland
Pussy willow	<i>Salix discolor</i>	Rare, wetlands
Bebb's willow	<i>Salix bebbiana</i>	Rare, wetlands
Sandbar willow	<i>Salix interior</i>	Wetlands, can become invasive
Prickly ash	<i>Zanthoxylum americanum</i>	Occasional, sometimes invasive, 45D
<b>Ground layer</b>		
Sweet flag	<i>Acorus calamus</i>	Near seeps, 45N
Maidenhair fern	<i>Adiantum pedatum</i>	Rare, east aspects, 46K, 46O
Garlic mustard	<i>Alliaria petiolata</i>	Ubiquitous, shade, eutrophic soils
Wild leek	<i>Allium tricoccum</i>	Ephemeral, 46k, 46O
Hog peanut	<i>Amphicarpaea bracteata</i>	Ubiquitous, shade obligate, 45K
Angelica	<i>Angelica atropurpurea</i>	Seeps with 50% sun, 45N few plants
Columbine	<i>Aquilegia canadensis</i>	Uplands, > 50% sun, 46K, 46R, 46O
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	Ubiquitous, blufflands, disturbed areas
Beggars ticks	<i>Bidens sp.</i>	Ubiquitous throughout wet areas
Marsh marigold	<i>Caltha palustris</i>	Seeps, 45N, 46L
Spring cress	<i>Cardamine bulbosa</i>	Seeps, 45N, 46L
Lake sedge	<i>Carex laucustris</i>	Wetlands, common, shade tolerant
Enchanter night shade	<i>Circaea lutetiana</i>	Ubiquitous throughout uplands
Canadian honewort	<i>Cryptotaenia canadensis</i>	Lowlands, compacted soils, >30% sun
Rough Barnyard Grass	<i>Echinochloa muricata</i>	Common, mud flats, disturbed wetlands
Silky wild rye	<i>Elymus villosus</i>	Uplands, oligotrophic soils, >50% sun, 45D, 46R, 46O
Virginia wild rye	<i>Elymus virginicus</i>	Floodplain terrace, 45J
Philadelphia fleabane	<i>Erigeron philadelphicus</i>	Occasional, disturbed areas
Water Horsetail	<i>Equisetum fluniatale.</i>	Lowlands, wetlands, sun patches,
White snakeroot	<i>Eupatorium rugosum</i>	Ubiquitous, disturbed areas, 45J, 45D, 45R

Annual bedstraw	<i>Galium aparium</i>	Floodplain, disturbed areas
Wild geranium	<i>Geranium maculatum</i>	Occasional, uplands, 45D, 46K, 46R, 46O
White avens	<i>Geum canadense</i>	Ubiquitous, disturbed areas
Dames rocket	<i>Hesperis matronalis</i>	Lowlands, ravines, eutrophic soils, (nn)
Virginia waterleaf	<i>Hydrophyllum virginianum</i>	Blufflands, lowlands, disturbed areas
Touch-me-not	<i>Impatiens capensis</i>	Ubiquitous, moist soils, wetlands, seeps
Wood nettle	<i>Laportea canadensis</i>	Lowlands, floodplain, nitrophilic, invasive
Rice cutgrass	<i>Leersia oryzoides</i>	Seeps, low nutrient wetlands, wet prairie
White grass	<i>Leersia virginica</i>	Disturbed areas, compacted moist soils
Motherwort	<i>Leonurus cardiaca</i>	Disturbed areas, ravines, eutrophic soils, (nn)
American horehound	<i>Lycopus americanus</i>	Occasional, wetlands
Virginia Bugleweed	<i>Lycopus virginicus</i>	Common, wetlands, 45G, 45B
Purple Loosestrife	<i>Lythrum salicaria</i>	Occasional, invasive, wetlands (nn)
Woodbine	<i>Parthenocissus inserta</i>	Ubiquitous, blufflands, lowlands, floodplain
Reed canary grass	<i>Phalaris arundinacea</i>	Wet soils, invasive, dominate Nine Mile Creek delta
Clearweed	<i>Pilea sp.</i>	Ubiquitous, muddy-shady areas
Smartweed	<i>Polygonum amphibium</i>	Ubiquitous, muddy-shady areas
Marsh Waterpepper	<i>Polygonum hydropiper</i>	Common in marshlands
Dwarf raspberry	<i>Rubus pubescens</i>	Seeps, low nutrient wetlands, 45N, 46L
Wild golden glow	<i>Rudbeckia laciniata</i>	Common, floodplains, wetland fringe, shade obligate
Broad arrowhead	<i>Sagittaria latifolia</i>	Occasional, seeps, low nutrient wetlands
Clustered snakeroot	<i>Sanicula gregaria</i>	Ubiquitous, ravines, lowlands, floodplain
Hardstem bulrush	<i>Scirpus acutus</i>	Occasional, mixed emergent marsh
Dark green bulrush	<i>Scirpus atrovirens</i>	Occasional, wet prairie, emergent marsh
River Bulrush	<i>Scirpus fluviatilis</i>	Major dominate in marshlands

Bur Cucumber	<i>Sicyos angulatus</i>	Common in floodplains, lowlands
Canada goldenrod	<i>Solidago canadensis</i>	Occasional, floodplain, sun
Giant goldenrod	<i>Solidago gigantea</i>	Occasional, floodplain, wetlands, sun, 45B
Skunk cabbage	<i>Symplocarpus foetidus</i>	Occasional seeps, 45N, 46L
Meadow rue	<i>Thalictrum dasycarpum</i>	Occasional, seeps, 45N, 46L
Early meadow rue	<i>Thalictrum dioicum</i>	Uplands, oligotrophic soils, 46K, 45O
Stinging Nettle	<i>Urtica dioica</i>	Lowlands, eutrophic soils, disturbed areas
Yellow violet	<i>Viola pubescens</i>	Uplands, >30% sunlight
Common blue violet	<i>Viola sororia</i>	Uplands, >30% sunlight

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