

3. STORMWATER MANAGEMENT POND PLANTING

3.1 Introduction

The Stormwater Management Pond Planting Guidelines have been produced by the Nottawasaga Valley Conservation Authority (NVCA) to complement its existing municipal stormwater review services. These guidelines follow the recommendations provided in the Stormwater Management Planning and Design Manual (MOE, 2003) and its accompanying document, “The Holistic Landscape”. As part of guideline development, planting guidelines from other conservation authorities were reviewed and key staff members were interviewed. These guidelines apply specifically to wet ponds as they are the most common stormwater management facility used in Ontario.

Stormwater Management Ponds (SWMPs) provide many water quantity and water quality benefits. They hold surplus water from storm events and collect runoff from developed lands. Downstream flooding and erosion are reduced because SWMPs control the peak flow, frequency of peak flow, and velocity of stormwater. Stormwater contains potential pollutants such as suspended soils, nutrients, bacteria, oil and grease, trace metals and organic contaminants such as pesticides, polychlorinated biphenyls (PCBs) and polycyclic aromatic hydrocarbons (PAHs). By collecting runoff, SWM facilities reduce the amount of sediment and toxins that would otherwise be discharged into rivers or lakes.

Vegetation plays a key role in improving water quality discharged from stormwater facilities through several mechanisms. Vegetation can control sediment discharge by slowing its movement and allow for settling, and can aid in decreasing water temperature through shading. Aquatic vegetation can also serve as a biological filter as it can retain fine sediments and any bound contaminants. The success of the SWMP in reducing contaminant loadings is directly related to vegetation plantings. Appropriate planting strategies are important to ensure effective SWMP operation.

Layout and orientation of SWMPs is also important, particular when facilities discharge to existing/potential coldwater systems. To minimize temperature increases through shading, wet ponds should be designed with their longest axis aligned along a northwest to southeast direction.

This document is intended for consultants who are developing landscaping plans for municipal stormwater facilities. Planting guidelines are provided for the various planting zones within and adjacent to stormwater facilities, with an emphasis on wet pond facilities. Specific guidelines for tree, shrub and ground cover densities and species composition are provided as well as recommendations for monitoring. A checklist for landscaping plan submissions is provided to facilitate submissions and review.

3.2 Planting Guidelines

3.2.1 Planting Zones

The NVCA's planting strategy guidelines follow the guidelines set out in the 2003 MOE Manual. The manual identifies five planting zones which are defined by the frequency and duration of water inundation. The following guidelines along with best professional judgement should be used to create a planting plan.

1. Upland Areas
 - Area of SWM facility that is highest in elevation
 - Include mature plants to meet shading, aesthetics, wind screening and other objectives
2. Flood Fringe:
 - Area of infrequent inundation due to infrequent storm events (2 to 100 year storm), wetted perimeter, peak control
 - Acceptable plantings include a variety of grass, forb, shrub and tree species
3. Shoreline Fringe
 - Areas that receive frequent wetting due to relatively frequent storm events, permanent pool to high water mark
 - Plantings may include wetland sedges, rushes, wildflowers, ferns and shrubs
4. Shallow Water
 - Includes submergent and emergent vegetation in the zone 0.5m or less, gradual slopes maximize area available for planting
 - Plant most emergents at a water depth of <0.3m
5. Deep Water
 - Includes submergent, free-floating and floating-leaved species adapted for water depths of 0.5m or greater (includes pondweed and duckweed)

3.2.2 Species Selection

As per the Ministry of the Environment's requirements, the NVCA requires the use of native, non-invasive plants for SWMPs. Non-native species are discouraged due to the negative effect they can have on the surrounding environment. Within and adjacent to ponds, they out-compete native species thereby decreasing plant species diversity and the diversity of the local native plant gene pool. Non-native vegetation can degrade ecological functions and can increase the susceptibility of native species to disease and/or insect pests. The introduction of non-native vegetation can also reduce the hardiness and resilience of the natural community to changes in the environment. Suitable native species are available for all levels of moisture (upland to aquatic) and for other imposed environmental conditions, such as road salt exposure.

The following guidelines should be used for species selection:

- Use only non-invasive plants that are native to the watershed (See list at the end of this chapter for Native Planting List); cultivars are not acceptable
- When SWMPs are proposed adjacent to natural areas, native, non-invasive species that are found within or adjacent to these natural area should be planted in keeping with the character of adjacent lands
- The design of planting plans should include a diverse mix of trees, shrubs, ground cover and aquatics as described in further sections
- Consideration should be given to:
 - adjacent plant community composition;
 - species rooting characteristics
 - species ability to filter sediments and trap floating debris
 - species ability to provide bioengineering support for SWMP structures
 - soil conditions (type, moisture regime)
 - frequency and duration of flooding
 - microclimatic conditions
 - downstream temperature and dissolved oxygen regimes (shading)
 - slope stability and erosion mitigation
 - deterrence of nuisance wildlife (i.e. Canada geese)
 - provision of aesthetic benefits, concealment of fencing structures
 - maintenance requirements
 - barriers to public access
 - proximity to roads (airborne pollutants, salt spray).

The common and scientific names for all species proposed for planting (including terrestrial and aquatic plants and seed mixes) are required for all SWMP planting plans.

3.2.3 Planting Densities and Species Composition

Trees

- Proposed tree density after planting should be 5-7 trees per every 100m²
- Provide a minimum of 6 species (combined coniferous & deciduous) that are adapted to their proposed planting location
- Plant in natural configuration using a variety of age classes
- Caliper-sized trees should be used to shade permanent pools
- Use whips or bare-root small caliper stock for future canopy cover where larger stock is not appropriate
- Minimum caliper for deciduous trees is 40mm
- Minimum height for a coniferous tree is 1.8m
- Maximum size for transplanted stock is 200mm dbh
- Remove wire baskets from all stock
- Mulch bowls are to be placed and maintained around the base of trees to retain water
- Appropriate staking should be used
- Rodent protection should be installed around deciduous trees
- Trees and shrubs should be guaranteed for two years from the Maintenance Period start date. If trees and/or shrubs are found dead or in an unhealthy condition within the guarantee period, the defective plants will be replaced and re-guaranteed for an additional two years.

Shrubs

- Plant shrubs 0.75 - 1.5m apart over 30% of the planting area
- Provide a minimum of 6 shrub species that are adapted to their proposed planting location
- Plant in natural configuration
- Minimum height for a deciduous or coniferous shrub is 0.6m
- Bare root, live stake, harvested & transplanted stock methods may be acceptable means of establishing the vegetation community
- Shrub Application-Specific Spacing
 - a) *Barrier Planting*: minimum of 2 rows of thorn-bearing shrubs that extend to 3m past the area limit; offset rows with each other and use maximum spacing of 0.8m on centre
 - b) *Planted Weirs*: space shrubs with 0.8m on centre continuously across the width of the weir for the length of the crest
- Trees and shrubs should be guaranteed for two years from the Maintenance Period start date. If trees and/or shrubs are found dead or in an unhealthy condition within the guarantee period, the defective plants will be replaced and re-guaranteed for an additional two years.

Aquatic Vegetation

- Plant aquatics in a 1.5m band around the perimeter or up to 0.75m deep, whichever is greater, with a maximum spacing of 1m on centre over 40% of the planting area
- Provide at least 4 different species including a minimum of 1 floating, 1 submerged and 1 emergent (robust / broadleaved / narrow leaved) plant species

Seed Cover

- Determine which type of seed cover is appropriate for the location (upland, mesic, wetland) and provide a seed mix with a minimum of 6 different types of seeds and with a minimum component of 70% native, non-invasive species
- For areas adjacent to ANSIs, PSWs, County Greenland or other environmentally designated zones, a seed mix of 100% native, non-invasive species is required
- Application can be done using hydroseeding methods or a custom seed mix impregnated in a nutrient-rich medium (i.e. mesh-like blanket)

3.2.4 When to Plant

Planting Zone	Planting Time	Plant Form	Vegetation Layer			
			Tree	Shrub	Ground Cover	Aquatic
Upland Area/ Flood Fringe	early spring after water levels have declined	ball and burlap, potted, bare root, live stakes	Yes	Yes	Yes	
Flood Fringe/ Shoreline Fringe	mid-May to early June, after water levels have declined	ball and burlap, potted, bare root, live stakes	Yes	Yes	Yes	
Shoreline Fringe/ Shallow Water	late May to early June; submerged plants in late spring or summer	springs, shoot or plugs; submerged plants should be planted as mature vegetative growth				Yes
Deep Water	mid to late spring					Yes

Note: bareroot species should only be planted while dormant (i.e. in spring or in fall after leaf out); container-grown and balled and burlapped vegetation can be planted at any time during the growing season if sufficient water is provided.

For spring plantings, bareroot trees and shrubs should be planted from mid-April to mid-May before bud-break. The soil must be dry and not too heavy or sticky. For fall, trees and shrubs should be planted 2-3 weeks after leaves have dropped. Please refer to the above table for further planting information.

The optimal time for seeding dormant wildflowers is May 15 to June 15. Dormant native grasses should be seeded between October 15 to November 15 if establishment is desired in the spring. To protect seeds/ground cover, annual nurse crops can be hydroseeded until mid to late September as establishment will occur within 2 to 3 weeks.

3.2.5 Topsoil, Stabilization & Erosion Control

Prior to grading, strip topsoil and store on-site away from watercourses or ponds. To reduce sediment runoff, erect sediment fencing around the topsoil pile.

Terrestrial Guidelines

For terrestrial areas, 0.45m to 1.0m of topsoil is required for all areas above the permanent water level. The depth of the topsoil can be spread evenly or in raised and/or excavated beds throughout the facility. Stabilize top soil prior to planting trees and/or shrubs with native, non-invasive herbaceous seed mixes for groundcover. Depending on the time of year, additional stabilization methods may be required, such as hydroseeding with annual nurse crops or staked erosion matting.

If topsoil stabilization can not be completed within the construction year's growing season then topsoil should not be spread until the following spring.

Aquatic Guidelines

A minimum of 0.3m of topsoil is required for the first 1.0m depth of permanent water level. The site supervisor and design engineer should review the suitability of compaction and subsoil material with the landscape architect. Consider providing cattails as interim vegetation in the sediment forebay to aid in sediment trapping. It is accepted that vegetation will be removed from the forebay during sediment cleanout.

3.3 Landscape Drawing Submission Guidelines

Landscape drawings should include:

- Common and scientific names for all species/seed mixes
- Numbers and sizes of trees/shrubs to be planted
- Clearly marked planting locations for all species/seed mixes
- Contours (topographic and bathymetry) to assist in identification of planting zones
- Planting details such as topsoil depths, rodent protection, mulching, and staking
- Planting guarantee
- Location of existing species that will be preserved on the site (if applicable)
- Details indicating how existing vegetation will be protected during construction (if applicable)
- Location of all access roads
- Location of sediment and erosion control devices
- Existing watercourse(s)

3.4 Other Types of Stormwater Management Facilities

Constructed Wetlands

- Preferred stormwater management facility for water quality enhancement
- Suitable for erosion control but limited in quantity (flood) control
- More land-intensive due to shallow depth
- Benefits are similar to wet ponds
- Have similar environmental impacts as wet ponds with respect to increased downstream water temperature
- Planting requirements are the same as those of the wet pond but landscape details will be assessed on a case-by-case basis

Hybrid Wet-Pond/Wetland System

- Wet pond and wetland element combined in a series
- The deep water is less impacted by winter/spring conditions and the wetland provides increased biological removal in the summer
- Greater design flexibility and planting diversity
- Planting requirements are similar to those of the wet pond but landscape details will be assessed on a case-by-case basis

Dry Ponds

- Used for erosion and flood control
- Limited water quality benefits
- Use is restricted to:
 - situations where the contributing area is small (5.0 ha) and it is not felt that there will be enough water supply to sustain a wet pond
 - retrofits where water temperature is the main concern and in those situations where other stormwater management facilities are not feasible
- Plantings can be divided into three zones based on the frequency of inundation: 1) extended detention area; 2) flood fringe area (if applicable i.e. dry pond in combination with a wet SWMP); 3) upland area
- Planting strategy is less aggressive with fewer species and decreased planting intensity generally required; landscape details will be assessed on a case-by-case basis
- More intense monitoring of vegetation post-planting may be required as conditions in a dry pond are harsher than the other stormwater management facilities (due to lack of permanent pool)

Other

- Refer to the SWM Planning and Design Manual (MOE, 2003) for requirements for infiltration trenches, enhanced grass swales, vegetated filter strips, etc.
- Planting requirements (if applicable) will be assessed on a case-by-case basis

3.5 Monitoring

A monitoring component should be included with all landscaping plans and should include:

- Ongoing monitoring and watering of trees, shrubs and ground cover during initial establishment period if drought conditions are prevalent
- A review of tree and shrub survival before the end of the maintenance period to ensure replacement of dead/unhealthy individuals
- Review of health of nurse crops and subsequent ground cover
- Ongoing monitoring and maintenance of sediment and erosion control measures to ensure their integrity and effectiveness until vegetation is firmly established

3.6 References

- Baker, Kim. Natural Heritage Biologist at Lake Simcoe Region Conservation Authority. *Personal Communication*. June 2004.
- Barrett, Kim. Terrestrial Ecologist at Conservation Halton. *Personal Communication*. June, 2004.
- Bishop, C.A., Struger, J, Dunn, L., Forder, D.R. and S. Kok. 1999. *Stormwater Detention Ponds of Southern Ontario: Are They a Risk to Wildlife?* Environment Canada. pp. 12.
- Conservation Halton. *Landscape Restoration and Rehabilitation Guidelines*. August 20004. pp. 16.
- Credit Valley Conservation. *Stormwater Management Facility Planting Guidelines*. pp. 8.
- Delgiudice, Laura. Planning Ecologist, Toronto and Region Conservation Authority. *Personal Communication*. June 2004.
- Jenkins, Paul. Wildflower Farm Inc. *Personal Communication*. June 16, 2004.
- Jorgansen, Susan. Planner/Ecologist at Credit Valley Conservation. *Personal Communication*. June 2004.
- Ministry of the Environment. *Stormwater Management Planning and Design Manual*. March 2003.
- Ministry of the Environment. *Stormwater Management Planning and Design Manual*. Landscape for Stormwater Management Facilities (accompanying document). March 2003.
- J.L.Riley. *Distribution and Status of the Vascular Plants of Central Region, Ontario Ministry of Natural Resources*. Parks and Recreational Areas Section, OMNR, Central Region, Richmond Hill, Ontario, December 1989.
- Toronto and Region Conservation Authority. *Stormwater Management Facility Planting Guidelines*. July 2004. pp. 3.
- Toronto and Region Conservation Authority. *Post-Construction Restoration Guidelines*. July 2004. pp. 2.

3-A: Native Plant Species of Simcoe County (Riley, 1989).

GENUS	Common Name	Status *
<i>Abies balsamea</i> (L.) Miller	Balsam Fir	X
<i>Abutilon theophrasti</i> Medik.	Velvet-leaf	X
<i>Acalypha virginica</i> L. var. <i>rhomboidea</i> (Raf.) Cooperrider	Three-seeded Mercury	R-4
<i>Acer negundo</i> L.	Manitoba Maple	X
<i>Acer pensylvanicum</i> L.	Striped Maple	X
<i>Acer rubrum</i> L.	Red Maple	X
<i>Acer saccharinum</i> L.	Silver Maple	X
<i>Acer saccharum</i> Marshall ssp. <i>nigrum</i> (Michx. f.) Desmarais	Black Maple	X
<i>Acer saccharum</i> Marshall ssp. <i>Saccharum</i>	Sugar Maple	X
<i>Acer spicatum</i> Lam.	Mountain Maple	X
<i>Acinos arvensis</i> (Lam.) Dandy	Mother-of-thyme	X
<i>Acorus calamus</i> L.	Sweet Flag	X
<i>Actaea pachypoda</i> Elliot	White Baneberry	X
<i>Actaea rubra</i> (Aiton) Willd.	Red Baneberry	X
<i>Adiantum pedatum</i> L.	Northern Maidenhair Fern	X
<i>Adlumia fungosa</i> (Aiton) Greene ex B.S.P.	Climbing Fumitory	R-1
<i>Agalinis paupercula</i> (Gray) Britton var. ?	Small-flowered Agalinis	X
<i>Agalinis tenuifolia</i> (Vahl) Raf. var. ?	Slender-leaved Agalinis	R-1
<i>Agrimonia gryposepala</i> Wallr.	Tall Hairy Agrimony	X
<i>Agrimonia pubescens</i> Wallr.	Hairy Agrimony	R-2
<i>Agropyron subsecundum</i> (Link)		X
<i>Agrostis capillaris</i> L.	Colonial Bent Grass	X
<i>Agrostis gigantea</i> Roth	Red-top	X
<i>Agrostis perennans</i> (Walter) Tuckerm.	Upland Bent Grass	X
<i>Agrostis scabra</i> Willd.	Fly-away Grass	X
<i>Agrostis stolonifera</i> L.	Redtop	X
<i>Ajuga reptans</i> L.	Creeping Bugleweed	X
<i>Alisma plantago-aquatica</i> L.	Common Water-plantain	X
<i>Allium oleraceum</i>	Wild Garlic	R-5
<i>Allium schoenoprasum</i> L. var. <i>sibiricum</i> (L.) Hartm.	Wild Chives	R-1
<i>Allium tricoccum</i> Ait.	Wild Leek, Ramps	X
<i>Alnus incana</i> ssp. <i>Rugosa</i> (Du Roi) Clausen	Speckled Alder	X
<i>Alnus viridis</i> ssp. <i>Crispa</i> (Ait.) Turrill	Green Alder	R-1
<i>Alopecurus aequalis</i> Sobol.	Water Foxtail	X
<i>Alopecurus geniculatus</i> L.	Marsh Foxtail	X
<i>Alopecurus pratensis</i> L.	Meadow Foxtail	X
<i>Alyssum alyssoides</i> (L.) L.	Yellow Alyssum	X
<i>Amaranthus tuberculatus</i> (Moq.) Sauer	Rough-fruit Amaranth	R-1
<i>Ambrosia artemisiifolia</i> L.	Common Ragweed	X
<i>Ambrosia trifida</i> L.	Giant Ragweed	R-3
<i>Amelanchier alnifolia</i> (Nutt.) Nutt. ex R. Roem.	Saskatoon Berry	X
<i>Amelanchier arborea</i> (Michx. f.) Fern.	Downy Juneberry	X

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Amelanchier bartramiana (Tausch) M. Roem.	Bartram's Juneberry	R-2
Amelanchier laevis Wiegand	Smooth Juneberry	X
Amelanchier sanguinea (Pursh) DC.	Roundleaf Juneberry	X
Amelanchier spicata (Lam.) K. Koch	Low Juneberry	X
Amelanchier stolonifera Wiegand	Running Juneberry	X
Amerorchis rotundifolia (Banks ex Pursh) Hulten	Round-leaved Orchis	R-1
Ammophila breviligulata Fern.	Short-liguled Beach Grass	X
Amphicarpaea bracteata (L.) Fern.	Hog Peanut	X
Anaphalis margaritacea (L.) Benth. & Hook. f. ex C.B. Clarke	Pearly Everlasting	X
Andromeda polifolia L. ssp. glaucophylla (Link) Hultén	Bog Rosemary	X
Andropogon gerardii Vitman	Big Bluestem	X
Anemone acutiloba (DC.) G. Lawson	Sharp-lobed Hepatica	X
Anemone americana (DC.) H. Hara	Round-lobed Hepatica	X
Anemone canadensis L.	Canada Anemone	X
Anemone cylindrica A. Gray	Thimbleweed	X
Anemone multifida Poir. var. multifida	Cut-leaved Anemone	X
Anemone quinquefolia L. var. quinquefolia	Wood Anemone	R-1
Anemone virginiana L. var. ?	Thimbleweed	X
Angelica atropurpurea L.	Dark-purple Alexanders	R-5
Antennaria howellii Greene spp. canadensis (Greene) R.J. Bayer	Canadian Pussytoes	X
Antennaria howellii Greene spp. neodioica (Greene) R.J. Bayer	Smaller Pussytoes	X
Antennaria neglecta Greene	Field Pussytoes	X
Antennaria parlinii Fern. ssp. fallax (E. Greene) R.J. Bayer & Stebb.	Parlin's Pussytoes	X
Antennaria parlinii Fern. ssp. Parlinii	Parlin's Pussytoes	X
Apios americana Medik.	Groundnut	X
Aplectum hyemale (Muhl. ex Willd.) Torr.	Puttyroot	R-2
Apocynum androsaemifolium L. ssp. Androsaemifolium	Spreading Dogbane	X
Apocynum cannabinum L. var. ?	Indian Hemp	X
Aquilegia canadensis L.	Wild Columbine	X
Arabidopsis thaliana (L.) Heynh.	Mouse-ear Cress	X
Arabis alpina L. ssp. caucasica (Schlect. ex Willd.) Briq.	Alpine Rock-cress	X
Arabis canadensis L.	Sicklepod	R-2
Arabis divaricarpa A. Nelson var. dacotica (Greene) B. Boivin	Divaricate Rock-cress	X
Arabis drummondii A. Gray	Drummond's Rock-cress	R-3
Arabis glabra (L.) Bernh.	Tower Mustard	X
Arabis hirsuta (L.) Scop. ssp. pycnocarpa (M. Hopk.) Hultén	Hairy Rock-cress	R-1
Arabis holboellii Hornem. var. secunda (Howell) Jepson	Holboell's Rock-cress	X
Arabis lyrata L.	Lyre-leaved Rock-cress	X
Aralia hispida Vent.	Bristly Sarsaparilla	X
Aralia nudicaulis L.	Wild Sarsaparilla	X
Aralia racemosa L. ssp. racemosa	Spikenard	X
Arceuthobium pusillum Peck.	Dwarf Mistletoe	X
Arctostaphylos uva-ursi (L.) Spreng.	Common Bearberry	X
Arethusa bulbosa L.	Arethusa	R-5
Arisaema triphyllum (L.) Schott	Small Jack-in-the-Pulpit	X
Aristida basiramea Engelm. ex Vasey	Forked Triple-awned Grass	R-2
Armoracia lacustris (A. Gray) Al-Shehbaz & V. Bates	Lake Water-cress	R-6

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Aronia melanocarpa (Michx.) Elliot	Black Chokeberry	X
Artemisia campestris L. ssp. caudata (Michx.) H.M.Hall & Clements	Tall Wormwood	X
Asarum canadense L.	Wild Ginger	X
Asclepias incarnata L. ssp. incarnata	Swamp Milkweed	X
Asclepias syriaca L.	Common Milkweed	X
Asclepias tuberosa L.	Butterfly-weed	R-4
Asparagus officinalis L.	Garden Asparagus	X
Asplenium platyneuron (L.) Oakes ex Eaton	Ebony Spleenwort	R-5
Asplenium rhizophyllum L.	Walking Fern	X
Asplenium scolopendrium L. var. americanum (Fern.) Kartesz & Gandhi	Hart's-tongue	R-6
Asplenium trichomanes L. ssp. quadrivalens D.E. Mey.	Maidenhair	X
Asplenium trichomanes L. ssp. trichomanes	Maidenhair Spleenwort	R-2
Asplenium trichomanes-ramosum L.	Green Spleenwort	R-6
Aster borealis (Torr. & A.Gray) Prov.	Rush Aster	X
Aster ciliolatus Lindl.	Ciliolate Aster	X
Aster cordifolius L.	Heart-leaved Aster	X
Aster ericoides L. ssp.?	White Heath Aster	R-2
Aster laevis L. var. laevis	Smooth Blue Aster	X
Aster lanceolatus Willd. ssp. lanceolatus	Tall White Aster	X
Aster lateriflorus (L.) Britton var.?	Calico Aster	X
Aster macrophyllum L.	Large-leaved Aster	X
Aster nemoralis Aiton	Bog Aster	R-4
Aster novae-angliae L.	New England Aster	X
Aster oolentangiensis Riddell	Sky Blue Aster	R-4
Aster pilosus Willd. var. pilosus	Hairy Aster	R-5
Aster puniceus L. var.?	Purple-stemmed Aster	X
Aster umbellatus Miller var.?	Flat-top White Aster	X
Aster urophyllum Lindl.	Arrow-leaved Aster	X
Astragalus canadensis L.	Canada Milkvetch	R-5
Athyrium filix-femina (L.) Roth ex Mert var. angustum (Willd.) G. Lawson	Northern Lady Fern	X
Athyrium pycnocarpon Spreng.	Glade Fern	R-2
Atriplex patula L.	Halberd-leaf Saltbush	X
Atriplex prostrata Boucher ex DC.	Creeping Saltbush	X
Bartonia virginica (L.) B.S.P.	Yellow Bartonia	R-2
Beckmannia syzigachne (Steud.) Fern.	American Sloughgrass	R-1
Betula alleghaniensis Britt.	Yellow Birch	X
Betula papyrifera Marsh.	White Birch	X
Betula pumila var. glandulifera Regel	Dwarf Birch	R-2
Bidens cernua L.	Stick-tight	X
Bidens discoidea (Torr. & A.Gray) Britton	Discooid Beggar-ticks	X
Bidens frondosa L.	Devil's Beggar-ticks	X
Bidens tripartita L.	European Beggar-ticks	X
Bidens vulgata Greene	Tall Beggar-ticks	R-4
Boehmeria cylindrica (L.) Sw.	False Nettle	X
Botrychium dissectum Spreng.	Cut-leaved Grape Fern	X
Botrychium lanceolatum (S.G. Gmel.) Angstr. Ssp. angustisegmentum (Pease & A.H. Moore) R.T. Clausen	Narrow Triangle Moonwort	R-1

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Botrychium matricariifolium (Doll) A. Braun ex Koch	Daisy-leaf Moonwort	X
Botrychium multifidum (S.G. Gmel.) Rupr.	Leathery Grape Fern	X
Botrychium oneidense (Gilb.) House	Blunt-lobed Grape Fern	R-1
Botrychium rugulosum W.H. Wagner	Rugulose Grape Fern	R-1
Botrychium simplex E. Hitchc.	Least Moonwort	X
Botrychium virginianum (L.) Swartz	Rattlesnake Fern	X
Brachyelytrum erectum (Schreb.) P. Beauv.	Bearded Short-husk	X
Brasenia schreberi J. Gmel.	Water-shield	X
Bromus ciliatus L.	Fringed Brome	X
Bromus hordeaceus L. ssp. hordeaceus	Soft Brome	X
Bromus inermis Leyss. Ssp. inermis	Awnless Brome	X
Bromus japonicus Thunb. Ex Murray	Japanese Chess	X
Bromus kalmii A. Gray	Kalm's Brome	X
Bromus latiglumis (Shear) Hitchc.	Broad-glumed Brome	X
Bromus pubescens Muhl. Ex Willd.	Hairy Brome	R-1
Bulbostylis capillaris (L.) C.B. Clarke ssp. Capillaris	Hair-like Bulbostylis	R-3
Cacalia plantaginea (Raf.) Shin	Tuberous Indian-plantain	R-1
Cakile edentula (Bigelow) Hook.	American Sea-rocket	R-5
Calamagrostis canadensis (Michx.) P. Beauv.	Blue-joint Grass	X
Calamagrostis stricta (Timm) Koeler ssp. inexpansa (A. Gray) C.W. Greene	Narrow Reed Grass	R-1
Calla palustris L.	Wild Calla	X
Callitriche palustris L.	Marsh Water-starwort	R-4
Calopogon tuberosus (L.) B.S.P.	Tuberous Grass-pink	X
Caltha palustris L.	Marsh Marigold	X
Calypso bulbosa (L.) Oakes	Calypso	X
Calystegia sepium (L.) R.Br. ssp. Americanum (Sims) Brummitt	Hedge Bindweed	X
Calystegia spithamea (L.) Pursh ssp. spithamea	Low Bindweed	X
Campanula rotundifolia L.	Blue Bells of Scotland	X
Cardamine bulbosa (Schreb. ex Muhlenb.) B.S.P.	Bulbous Cress	X
Cardamine concatenata (Michx.) Schwein.	Cut-leaved Toothwort	X
Cardamine diphylla (Michx.) Alph. Wood	Two-leaved Toothwort	X
Cardamine douglassii Britton	Purple Cress	R-1
Cardamine parviflora L.	Small-flowered Bitter-cress	R-5
Cardamine pensylvanica Muhlenb. ex Willd.	Pennsylvania Bitter-cress	X
Cardamine pratensis L. ssp. pratensis	Cuckoo-flower	R-2
Cardamine X maxima (Nutt.) Alph. Wood	Hybrid Cress	R-4
Carex aenea Fern.	Sedge	R-5
Carex albursina E. Sheld.	White Bear Sedge	X
Carex alopecoidea Tuckerm.	Foxtail Sedge	R-4
Carex amphibola Steud.	Narrow-leaved Sedge	X
Carex aquatilis Wahlenb.	Aquatic Sedge	X
Carex arcta Boott	Northern Clustered Sedge	R-1
Carex arctata Boott	Drooping Wood Sedge	X
Carex argyrantha Tuckerm.	Silvery Oval Sedge	R-2
Carex atherodes Spreng.	Awned Sedge	R-3
Carex aurea Nutt.	Golden-fruited Sedge	X
Carex backii Boott	Back's Sedge	X

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Carex bebbii (L.H. Bailey) Olney ex Fern.	Bebb's Sedge	X
Carex blanda Dewey	Woodland Sedge	X
Carex brevior (Dewey) Mack. ex Lunell	Shorter Sedge	X
Carex bromoides Schkuhr ex Willd.	Bromelike Sedge	X
Carex brunnescens (Pers.) Poir. ex Lam. ssp. brunnescens	Brownish Sedge	X
Carex buxbaumii Wahlenb.	Brown Sedge	X
Carex canescens L. ssp. canescens	Silvery Sedge	X
Carex capillaris L. ssp. capillaris	Hair-like Sedge	R-5
Carex castanea Wahlenb.	Chestnut Sedge	X
Carex cephaloidea (Dewey) Dewey	Thin-leaved Sedge	X
Carex cephalophora Muhlenb. ex Willd.	Oval-headed Sedge	R-5
Carex chordorrhiza Ehrh. ex L. f.	Creeping Sedge	R-4
Carex communis L.H. Bailey	Fibrous Rooted Sedge	X
Carex comosa Boott	Bristly Sedge	X
Carex conoidea Schkuhr ex Willd.	Field Sedge	R-3
Carex conuoluta Mack.	Sedge	X
Carex crawei Dewey	Crawe's Sedge	X
Carex crawfordii Fern.	Crawford's Sedge	R-6
Carex crinita Lam.	Fringed Sedge	X
Carex cristatella Britton	Crested Sedge	X
Carex cryptolepis Mack.	Small Yellow Sedge	R-5
Carex cumulata (L.H. Bailey) Mack.	Accumulating Sedge	R-6
Carex debilis Schwein. & Torr.	White Edged Sedge	X
Carex deflexa Hornem.	Northern Sedge	R-3
Carex deweyana Schwein.	Dewey's Sedge	X
Carex diandra Schrank	Lesser Panicked Sedge	X
Carex disperma Dewey	Soft-leaved Sedge	X
Carex eburnea Boott	Bristle-leaved Sedge	X
Carex echinata Murray ssp echinata	Prickly Sedge	X
Carex exilis Dewey	Coast Sedge	R-1
Carex flava L.	Yellow Sedge	X
Carex foena Willd.	Bronzy Sedge	R-5
Carex folliculata L.	Long Sedge	R-5
Carex formosa Dewey	Handsome Sedge	R-4
Carex garberi Fern.	Garber's Sedge	X
Carex gracillima Schwein.	Graceful Sedge	X
Carex granularis Muhlenb. ex Willd.	Meadow Sedge	X
Carex grayi Carey	Gray's Sedge	R-5
Carex gynandra Schwein.	Nodding Sedge	R-4
Carex gynocrates Wormsk. ex Drejer	Northern Bog Sedge	X
Carex haydenii Dewey	Hayden's Sedge	R-1
Carex hirta L.	Hammer Sedge	X
Carex hirtifolia Mack.	Pubescent Sedge	X
Carex hitchcockiana Dewey	Hitchcock's Sedge	X
Carex houghtoniana Torr. ex Dewey	Houghton's Sedge	X
Carex hystericina Muhlenb. ex Willd.	Porcupine Sedge	X
Carex interior L.H. Bailey	Inland Sedge	X

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Carex intumescens Rudge	Bladder Sedge	X
Carex lacustris Willd.	Lake-bank Sedge	X
Carex laevivaginata (Kükenth.) Mack.	Smooth-sheathed Sedge	X
Carex lanuginosa Michx.	Sedge	X
Carex lasiocarpa Ehrh.	Slender Sedge	X
Carex laxiflora Lam.	Loose-flowered Sedge	X
Carex lenticularis Michx.	Lenticular Sedge	R-1
Carex leptalea Wahlenb. ssp. leptalea	Bristle-stalked Sedge	X
Carex leptonevia (Fern.) Fern.	Finely-nerved Sedge	X
Carex limosa L.	Mud Sedge	X
Carex livida (Wahlenb.) Willd.	Livid Sedge	R-3
Carex lucorum Willd. ex Link	Sedge	R-3
Carex lupulina Muhlenb. ex Willd	Hop Sedge	X
Carex lurida Wahlenb.	Sallow Sedge	X
Carex merritt-fernaldii Mack.	Merritt Fernald's Sedge	R-6
Carex molesta Mack.	Troublesome Sedge	X
Carex muhlenbergii Schkuhr ex Willd. var. ?	Muhlenberg's Sedge	X
Carex oligosperma Michx.	Few-seeded Sedge	X
Carex ormostachya Wiegand	Necklace-like Spiked Sedge	X
Carex pallescens L.	Pale Sedge	R-3
Carex pauciflora Lightf.	Few-flowered Sedge	R-2
Carex paupercula Michx.	Sedge	X
Carex peckii Howe	Peck's Sedge	X
Carex pedunculata Muhlenb. ex Willd.	Long-stalked Sedge	X
Carex pennsylvanica Lam.	Pennsylvania Sedge	X
Carex plantaginea Lam.	Plantain-leaved Sedge	X
Carex platyphylla J. Carey	Broad-leaved Sedge	R-3
Carex prairea Dewey	Prairie Sedge	X
Carex prasina Wahlenb.	Drooping Sedge	R-1
Carex projecta Mack.	Necklace Sedge	X
Carex pseudo-cyperus L.	Cypress-like Sedge	X
Carex retrorsa Schwein.	Retorse Sedge	X
Carex richardsonii R. Br.	Richardson's Sedge	R-3
Carex rosea Schkuhr ex Willd.	Stellate Sedge	X
Carex sartwellii Dewey	Sartwell's Sedge	R-4
Carex scabrata Schwein.	Rough Sedge	X
Carex schweinitzii Dewey ex. Schwein.	Schweinitz's Sedge	X
Carex scoparia Schkuhr ex Willd.	Pointed Broom Sedge	X
Carex sparganioides Muhlenb. ex Willd.	Burreed Sedge	X
Carex spengelii Dewey ex Spreng.	Long-beaked Sedge	X
Carex sterilis Willd.	Sterile Sedge	X
Carex stipata Muhlenb. ex Willd.	Awl-fruited Sedge	X
Carex stricta Lam.	Tussock Sedge	X
Carex tenuiflora Wahlenb.	Sparse-flowered Sedge	R-1
Carex tribuloides Wahlenb.	Blunt Broom Sedge	R-1
Carex trisperma Dewey var. trisperma	Three-seeded Sedge	X
Carex tuckermanii Dewey	Tuckerman's Sedge	X

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<i>Carex umbellata</i> Schkuhr ex Willd.	Umbel-like Sedge	R-5
<i>Carex utriculata</i> Boott	Beaked Sedge	X
<i>Carex vaginata</i> Tausch	Sheathed Sedge	X
<i>Carex vesicaria</i> L.	Inflated Sedge	X
<i>Carex viridula</i> Michx. ssp. <i>viridula</i>	Greenish Sedge	X
<i>Carex vulpinoidea</i> Michx.	Fox Sedge	X
<i>Carex woodii</i> Dewey	Wood's Sedge	R-5
<i>Carpinus caroliniana</i> Walt.	American Hornbeam	X
<i>Carya cordiformis</i>	Bitternut Hickory	X
<i>Castilleja coccinea</i> (L.) Spreng.	Indian Paintbrush	X
<i>Caulophyllum giganteum</i> (Farw.) Leconte & Blackwell	Blue Cohosh	X
<i>Caulophyllum thalictroides</i> (L.) Michx.	Blue Cohosh	X
<i>Ceanothus americanus</i> L.	New Jersey Tea	R-4
<i>Ceanothus herbaceus</i> Raf.	Narrow-leaved New Jersey Tea	R-4
<i>Celastrus scandens</i> L.	Climbing Bittersweet	X
<i>Celtis occidentalis</i> L.	Hackberry	X
<i>Cephalanthus occidentalis</i> L.	Eastern Buttonbush	X
<i>Cerastium arvense</i> L. ssp. <i>arvense</i>	Field Chickweed	R-5
<i>Cerastium fontanum</i> Baumg.	Larger Mouse-ear Chickweed	X
<i>Cerastium nutans</i> Raf.	Nodding Chickweed	R-4
<i>Chamaedaphne calyculata</i> (L.) Moench	Leatherleaf	X
<i>Chamaesyce glyptosperma</i> (Engelm.) Small	Ridge-seeded Spurge	X
<i>Chamaesyce maculata</i> (L.) Small	Spotted Spurge	X
<i>Chamaesyce nutans</i> (Lag.) Small	Nodding Spurge	R-2
<i>Chamaesyce polygonifolia</i> (L.) Small	Seaside Spurge	R-3
<i>Chamaesyce vermiculata</i> (Raf.) House	Hairy Spurge	R-5
<i>Chelone glabra</i> L.	Turtlehead	X
<i>Chenopodium foggii</i> H.A. Wahl	Fogg's Goosefoot	R-1
<i>Chenopodium hybridum</i> L.	Maple-leaved Goosefoot	X
<i>Chenopodium rubrum</i> L.	Coast-blite Goosefoot	X
<i>Chimaphila maculata</i> (L.) Pursh var. <i>maculata</i>	Spotted Wintergreen	R-1
<i>Chimaphila umbellata</i> (L.) Barton ssp. <i>cisatlantica</i> (S.F.Blake) Hultén	Common Pipsissewa	X
<i>Chrysosplenium americanum</i> Schwein.	Golden Saxifrage	X
<i>Cicuta bulbifera</i> L.	Bulb-bearing Water-hemlock	X
<i>Cicuta maculata</i> L.	Spotted Water-hemlock	X
<i>Cinna arundinacea</i> L.	Wood Reed Grass	R-4
<i>Cinna latifolia</i> (Trevir. ex Goepp) Griseb. In Ledeb.	Broad-leaved Reed Grass	X
<i>Circaea alpina</i> L.	Smaller Enchanter's Nightshade	X
<i>Circaea lutetiana</i> L. ssp. <i>canadensis</i> (L.) Aschers. & Magnusson.	Yellowish Enchanter's Nightshade	X
<i>Cirsium discolor</i> (Muhlenb. ex Willd.) Spreng.	Field Thistle	R-1
<i>Cirsium hillii</i> (Canby) Fern.	Hill's Thistle	R-1
<i>Cirsium muticum</i> Michx.	Swamp Thistle	X
<i>Cladium mariscoides</i> (Muhlenb.) Torr.	Water Bog-rush	X
<i>Claytonia caroliniana</i> Michx.	Carolina Spring-beauty	X
<i>Claytonia virginica</i> L.	Narrow-leaved Spring Beauty	X
<i>Clematis occidentalis</i> (Hornem.) DC. var. <i>occidentalis</i>	Purple Clematis	R-1
<i>Clematis virginiana</i> L.	Virgin's-bower	X

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<i>Clintonia borealis</i> (Ait.) Raf.	Blue Bead-lily	X
<i>Cmpanula uliginosa</i> Rydb.	Marsh Bellflower	X
<i>Coeloglossum viride</i> (L.) Hartman	Long-bracted Orchid	X
<i>Collinsia parviflora</i> Douglas ex Lindl. var. <i>parviflora</i>	Small-flowered Collinsia	R-1
<i>Comandra umbellata</i> (L.) Nutt.	Umbellate Bastard Toad-flax	X
<i>Comptonia peregrina</i> (L.) Coult.	Sweet Fern	X
<i>Conopholis americana</i> (L.) Wallr.	Squawroot	X
<i>Conyza canadensis</i> (L.) Cronquist	Horseweed	X
<i>Coptis trifolia</i> (L.) Salisb.	Goldthread	X
<i>Corallorhiza maculata</i> (Raf.) Raf.	Spotted Coral-root	X
<i>Corallorhiza striata</i> Lindley	Striped Coral-root	X
<i>Corallorhiza trifida</i> Chat.	Early Coral-root	X
<i>Coreopsis grandiflora</i> Hogg ex Sweet	Large-flowered Tickseed	X
<i>Corispermum hyssopifolium</i> L.	Common Tick-seed	X
<i>Cornus alternifolia</i> L. f.	Alternate-leaved Dogwood	X
<i>Cornus amomum</i> Miller ssp. <i>obliqua</i> (Raf.) J.S.Wilson	Silky Dogwood	X
<i>Cornus canadensis</i> L.	Bunchberry	X
<i>Cornus foemina</i> Miller ssp. <i>racemosa</i> (Lam.) J.S.Wilson	Red Panicled Dogwood	R-2
<i>Cornus rugosa</i> Lam.	Round-leaved Dogwood	X
<i>Cornus stolonifera</i> Michx.	Red-osier Dogwood	X
<i>Corydalis aurea</i> Willd. ssp. <i>aurea</i>	Golden Corydalis	R-6
<i>Corydalis sempervirens</i> (L.) Pers.	Pale Corydalis	X
<i>Corylus cornuta</i> Marsh.	Beaked Hazelnut	X
<i>Crataegus aboriginum</i> Sarg.	Hawthorn	R-1
<i>Crataegus brainerdii</i> Sarg.	Brainerd's Hawthorn	R-1
<i>Crataegus chrysocarpa</i> Ashe	Round-leaved Hawthorn	X
<i>Crataegus flabellata</i> (Bosc ex Spach) K. Koch	Bosc's Thorn	R-1
<i>Crataegus fluciatilis</i> Sarg.	Hawthorn	R-2
<i>Crataegus fulleri</i> Sarg.	Hawthorn	R
<i>Crataegus hillii</i> Sarg.	Hawthorn	R-2
<i>Crataegus holmesiana</i> Ashe	Holmes Hawthorn	R-1
<i>Crataegus macrosperma</i> Ashe	Variable Thorn	R-4
<i>Crataegus pedicellata</i> Sarg.	Scarlet Hawthorn	R-1
<i>Crataegus pringlei</i> Sarg.	Pringle's Hawthorn	R-2
<i>Crataegus punctata</i> Jacq.	Large-fruited Thorn	X
<i>Crataegus scabrada</i> Sarg.	Hawthorn	R-1
<i>Crataegus submollis</i> Sarg.	Emerson's Thorn	R-1
<i>Crataegus succulenta</i> Schrad. ex Link	Long-spined Thorn	R-2
<i>Cryptogramma stelleri</i> (S.G. Gmel.) Prantl.	Slender Cliff-brake	X
<i>Cryptotaenia canadensis</i> (L.) DC.	Hone wort	X
<i>Cuscuta gronovii</i> Willd. ex Schultz	Gronovius' Dodder	X
<i>Cycloloma atriplicifolium</i> (Spreng.) Coult.	Winged Pigweed	X
<i>Cymbalaria muralis</i> P.Gaertn.,Mey.& Scherb.	Kenilworth-ivy	X
<i>Cynoglossum boreale</i> Fern.	Northern Hound's-tongue	X
<i>Cynoglossum officinale</i> L.	Hound's-tongue	X
<i>Cyperus bipartitus</i> Torr.	Umbrella Sedge	X
<i>Cyperus diandrus</i> Torr.	Low Umbrella Sedge	R-5

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<i>Cyperus engelmannii</i> Steud.	Nut Grass	R-1
<i>Cyperus esculentus</i> L.	Yellow Nut Grass	X
<i>Cyperus houghtonii</i> Torr.	Houghton's Cyperus	X
<i>Cyperus lupulinus</i> (Spreng.) Marcks ssp. ?	Slender Cyperus	X
<i>Cyperus squarrosus</i> L.	Squarrose Umbrella Sedge	R-6
<i>Cyperus strigosus</i> L.	Straw-colored Umbrella Sedge	X
<i>Cypripedium acaule</i> Ait.	Pink Lady's-slipper	X
<i>Cypripedium arietinum</i> Ait. F.	Ram's-head Lady's-slipper	X
<i>Cypripedium calceolus</i> L.	Large Yellow Lady's-slipper	X
<i>Cypripedium calceolus</i> var. <i>planipetalum</i>	Small Yellow Lady's-slipper	X
<i>Cypripedium reginae</i> Walt.	Showy Lady's-slipper	X
<i>Cystopteris bulbifera</i> (L.) Bernh.	Bulbet Bladder Fern	X
<i>Cystopteris dickieana</i> Sim	Dickie's Fragile Fern	R-1
<i>Cystopteris fragilis</i> (L.) Bernh.	Fragile Fern	R-1
<i>Cystopteris laurentiana</i> (Weath.) Blasdell	Laurentian Fragile Fern	R-1
<i>Cystopteris tenuis</i> (Michx.) Desv.	Mackay's Brittle Fern	X
<i>Dalibarda repens</i> L.	Dewdrop	X
<i>Danthonia spicata</i> (L.) P. Beauv. Ex Roem. & Schult.	Poverty Oat Grass	X
<i>Decodon verticillatus</i> (L.) Elliot	Swamp Loosestrife	X
<i>Dennstaedtia punctilobula</i> (Michx.) T. Moore	Hay-scented Fern	X
<i>Deparia acrostichoides</i> (Swartz) M. Kato	Silvery Glade Fern	X
<i>Deschampsia cespitosa</i> (L.) P. Beauv. ssp. <i>cespitosa</i>	Tufted Hairgrass	R-5
<i>Deschampsia flexuosa</i> (L.) Trin.	Common Hairgrass	X
<i>Descurainia pinnata</i> (Walter) Britton ssp. <i>brachycarpa</i> (Richardson) Detl.	Pinnate Tansy-mustard	R-1
<i>Desmodium canadense</i> (L.) DC.	Canadian Tick-trefoil	X
<i>Desmodium glutinosum</i> (Muhlenb. ex Willd.) Alph. Wood	Pointed-leaved Tick-trefoil	X
<i>Desmodium nudiflorum</i> (L.) DC.	Naked-flowered Tick-trefoil	R-1
<i>Desmodium paniculatum</i> (L.) DC. var. <i>paniculatum</i>	Panicled Tick-trefoil	X
<i>Dicentra canadensis</i> (Goldie) Walp.	Squirrel-corn	X
<i>Dicentra cucullaria</i> (L.) Bernh.	Dutchman's-breeches	X
<i>Diervilla lonicera</i> Miller	Bush Honeysuckle	X
<i>Diplotaxis tenuifolia</i> (L.) DC.	Slender-leaved Wall-rocket	X
<i>Dirca palustris</i> L.	Leatherwood	X
<i>Dracocephalum parviflorum</i> Nutt.	American Dragonhead	R-3
<i>Dryopteris carthusiana</i> (Vill.) H.P. Fuchs	Spinulose Wood Fern	X
<i>Dryopteris clintoniana</i> (D.C. Eaton) Dowell	Clinton's Wood Fern	X
<i>Dryopteris cristata</i> (L.) A. Gray	Crested Wood Fern	X
<i>Dryopteris filix-mas</i> (L.) Schott	Male-fern	R-4
<i>Dryopteris goldiana</i> (Hook. Ex. Goldie) A. Gray	Goldie's Fern	X
<i>Dryopteris intermedia</i> (Muhlenb. Ex Willd.) A. Gray	Evergreen Wood Fern	X
<i>Dryopteris marginalis</i> (L.) A. Gray	Marginal Wood Fern	X
<i>Dryopteris X boottii</i> (Tuckerm.) Underw.	Boott's Shield Fern	X
<i>Dryopteris X triploidea</i> Wherry	Wood Fern	X
<i>Dulichium arundinaceum</i> (L.) Britton	Reed-like Three-way Sedge	X
<i>Echinochloa microstachya</i> (Wieg).	Barnyard Grass	X
<i>Echinochloa muricata</i> (Beauv.) Fern.	Rough Barnyard Grass	X
<i>Echinocystis lobata</i> (Michx.) Torr. & A.Gray	Prickly Cucumber	X

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<i>Elatine minima</i> (Nutt.) Fischer & C.A. Mey.	Small Waterwort	X
<i>Eleocharis acicularis</i> (L.) Roem. & Schult.	Needle Spike-rush	X
<i>Eleocharis elliptica</i> Kunth	Elliptic Spike-rush	X
<i>Eleocharis erythropoda</i> Steud.	Red-footed Spike-rush	X
<i>Eleocharis intermedia</i> Schult.	Matted Spike-rush	R-5
<i>Eleocharis obtusa</i> (Willd.) Schult.	Blunt Spike-rush	X
<i>Eleocharis olivacea</i> Torr.	Bright-green Spike-rush	X
<i>Eleocharis pauciflora</i> (Light.) Link	Few-flowered Spike-rush	X
<i>Eleocharis robbinsii</i> Oakes	Robbins' Spike-rush	R-6
<i>Eleocharis rostellata</i> (Torr.) Torr.	Beaked Spike-rush	R-3
<i>Eleocharis smallii</i> Britton	Small's Spike-rush	X
<i>Elodea canadensis</i> Rich. Ex Michx.	Canada Waterweed	X
<i>Elodea nuttallii</i> (Planchon) H. St. John	Nuttall's Waterweed	R-2
<i>Elymus canadensis</i> L.	Nodding Wild Rye	X
<i>Elymus hystrix</i> L.	Bottle-brush Grass	X
<i>Elymus lanceolatus</i> (Scribn. & J.G. Smith) Gould ssp. <i>psammophilus</i> (J.M. Gillett & Senn) A. Love	Great Lakes Wheat Grass	R-2
<i>Elymus riparius</i> Wiegand	River-bank Wild Rye	R-3
<i>Elymus smithii</i> (Rydb.) Gould	Western Wheat Grass	X
<i>Elymus trachycaulus</i> (Link) Gould ssp. <i>trachycaulus</i>	Slender Wheat Grass	X
<i>Elymus villosus</i> Muhlenb. ex Willd.	Slender Wild Rye	R-4
<i>Elymus virginicus</i> L. var. <i>virginicus</i>	Virginia Wild Rye	X
<i>Elymus wiegandii</i> Fern.	Wiegand's Wild Rye	R-3
<i>Epifagus virginiana</i> (L.) Barton	Beech-drops	X
<i>Epigaea repens</i> L.	Trailing Arbutus	X
<i>Epilobium angustifolium</i> L.	Fireweed	X
<i>Epilobium ciliatum</i> Raf. ssp. <i>glandulosum</i> (Lehm.) Hoch & Raven	Northern Willow-herb	X
<i>Epilobium coloratum</i> Biehler	Purple-veined Willow-herb	X
<i>Epilobium leptophyllum</i> Raf.	Narrow-leaved Willow-herb	X
<i>Epilobium palustre</i> L.	Marsh Willow-herb	R-1
<i>Epilobium paniculatum</i> Nutt. ex Torr. & A. Gray	Panicled Willow-herb	R-1
<i>Epilobium parviflorum</i> Schreb.	Sparse-flowered Willow-herb	X
<i>Epilobium strictum</i> Muhlenb. ex Spreng.	Soft Willow-herb	R-2
<i>Equisetum arvense</i> L.	Field Horsetail	X
<i>Equisetum fluviatile</i> L.	Water Horsetail	X
<i>Equisetum hyemale</i> L. ssp. <i>affine</i> (Engelm.) Calder & Roy	Scouring-rush	X
<i>Equisetum laevigatum</i> A. Braun	Smooth Scouring-rush	R-4
<i>Equisetum palustre</i> L.	Marsh Horsetail	X
<i>Equisetum pratense</i> Ehrh.	Meadow Horsetail	R-2
<i>Equisetum scirpoides</i> Michx.	Dwarf Scouring-rush	X
<i>Equisetum sylvaticum</i> L.	Wood Horsetail	X
<i>Equisetum variegatum</i> Schleich. Ex Fried., Weber & Mohr ssp. <i>variegatum</i>	Variiegated Horsetail	X
<i>Equisetum X litorale</i> Kuhl. Ex Rupr.	Shore Horsetail	R-1
<i>Eragrostis cilianensis</i> (All.) Lutati ex Hubb.	Stink Grass	X
<i>Eragrostis frankii</i> C.A. Mey. ex Steud.	Frank's Love Grass	R-5
<i>Eragrostis hypnoides</i> (Lam.) B.S.P.	Tall Love Grass	R-2
<i>Erigeron annuus</i> (L.) Pers.	Daisy Fleabane	X

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<i>Erigeron philadelphicus</i> L. ssp.?	Philadelphia Fleabane	X
<i>Erigeron pulchellus</i> Michx.	Robin's Plantain	R-2
<i>Erigeron strigosus</i> Muhlenb. ex Willd.	Rough Fleabane	X
<i>Eriocaulon septangulare</i> With.	Duck Grass	X
<i>Eriophorum gracile</i> Koch ex Roth	Slender Cotton-grass	R-1
<i>Eriophorum tenellum</i> Nutt.	Rough Cotton-grass	R-2
<i>Eriophorum vaginatum</i> L. ssp.spissum (Fern.) Hultén	Sheathed Cotton-grass	X
<i>Eriophorum virginicum</i> L.	Virginia Cotton-grass	X
<i>Eriophorum viridi-carinatum</i> (Engelm.) Fern.	Thin-leaved Cotton-grass	X
<i>Erythronium americanum</i> Ker-Gawl.	Yellow Trout-lily	X
<i>Euonymus obovata</i> Nutt.	Running Strawberry-bush	R-2
<i>Eupatorium maculatum</i> L. ssp.?	Spotted Joe-Pye-weed	X
<i>Eupatorium perfoliatum</i> L.	Boneset/Perfoliate Thoroughwort	X
<i>Eupatorium rugosum</i> Houtt.	White Snakeroot	X
<i>Euthamia graminifolia</i> (L.) Nutt.	Flat-topped Bushy Goldenrod	X
<i>Festuca obtusa</i> Biehl.	Nodding Fescue	X
<i>Festuca occidentalis</i> Hook.	Western Fescue	X
<i>Festuca saximontana</i> Rydb.	Rocky Mountain Fescue	R-5
<i>Fimbristylis autumnalis</i> (L.) Roem. & Schult.	Slender Fimbristylis	R-4
<i>Floerkea proserpinacoides</i> Willd.	False Mermaid	R-2
<i>Fragaria vesca</i> L. ssp. americana (Porter) Staudt	Woodland Strawberry	X
<i>Fragaria virginiana</i> Miller ssp. glauca (S. Watson) Staudt	Common Strawberry	X
<i>Fraxinus americana</i> L.	White Ash	X
<i>Fraxinus nigra</i> Marshall	Black Ash	X
<i>Fraxinus pennsylvanica</i> Marshall	Red Ash	X
<i>Galearis spectabilis</i> (L.) Raf.	Showy Orchis	X
<i>Galinsoga quadriradiata</i> Růiz, Lopez & Pavón	Hairy Galinsoga	X
<i>Galium aparine</i> L.	Cleavers	X
<i>Galium asprellum</i> Michx.	Rough Bedstraw	X
<i>Galium boreale</i> L.	Northern Bedstraw	X
<i>Galium circaezans</i> Michx.	White Wild Licorice	R-3
<i>Galium labradoricum</i> (Wiegand) Wiegand	Labrador Marsh Bedstraw	X
<i>Galium lanceolatum</i> Torr.	Spear Wild Licorice	X
<i>Galium obtusum</i> Bigelow	Blunt-leaved Bedstraw	X
<i>Galium palustre</i> L.	Marsh Bedstraw	X
<i>Galium trifidum</i> L. ssp.?	Small Bedstraw	X
<i>Galium triflorum</i> Michx.	Sweet-scented Bedstraw	X
<i>Gaultheria hispidula</i> (L.) Muhlenb. ex Bigelow	Creeping Snowberry	X
<i>Gaultheria procumbens</i> L.	Wintergreen	X
<i>Gaylussacia baccata</i> (Wangenh.) K. Koch	Black Huckleberry	X
<i>Gentiana andrewsii</i> Griseb.	Closed Gentian	X
<i>Gentianopsis crinita</i> (Froel.) Ma	Fringed Gentian	R-4
<i>Gentianopsis virgata</i> (Raf.) Holub	Smaller Fringed Gentian	X
<i>Geocaulon lividum</i> (Richards.) Fern.	Northern Comandra	R-2
<i>Geranium bicknellii</i> Britton	Bicknell's Crane's-bill	X
<i>Geranium carolinianum</i> L. var. ?	Carolina Crane's-bill	R-2
<i>Geranium maculatum</i> L.	Spotted Crane's-bill	R-2

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Geranium pusillum L.	Small-flowered Crane's-bill	X
Geranium robertianum L.	Herb-robert	X
Geranium sanguineum L.	Bloody Crane's-bill	X
Geum aleppicum Jacq.	Yellow Avens	X
Geum canadense Jacq..	White Avens	X
Geum laciniatum Murray	Rough Avens	R-3
Geum rivale L.	Purple Avens	X
Glyceria borealis (Nash) Batch.	Northern Manna Grass	X
Glyceria canadensis (Michx.) Trin.	Rattlesnake Grass	X
Glyceria grandis S. Watson	Tall Manna Grass	X
Glyceria striata (Lam.) A. Hitchc.	Fowl Meadow Grass	X
Gnaphalium obtusifolium L.	Fragrant Cudweed	X
Gnaphalium uliginosum L.	Low Cudweed	X
Goodyera oblongifolia Raf.	Green Leaved Rattlesnake P.	X
Goodyera pubescens (Willd.) R. Br. ex Ait. f.	Downy Rattlesnake Plantain	X
Goodyera repens var. ophioides Fern.	Dwarf Rattlesnake Plantain	X
Goodyera tessellata Lodd.	Checkered Rattlesnake Plan.	X
Gratiola aurea Muhlenb. ex Pursh	Golden-pert	R-1
Gratiola neglecta Torr.	Clammy Hedge-hyssop	R-1
Gymnocarpium dryopteris (L.) Newman	Oak Fern	X
Hackelia deflexa (Wahlenb.) Opiz	Spurred Stickweed	X
Halenia deflexa (Sm.) Griseb. ssp. deflexa	Spurred Gentian	R-5
Hamamelis virginiana L.	Witch-hazel	R-2
Hedeoma hispidum Pursh	Rough Pennyroyal	R-2
Hedyotis caerulea (L.) Hook.	Bluets	R-1
Hedyotis longifolia (Gaertn.) Hook.	Venus'-pride	X
Helianthemum bicknellii Fern.	Bicknell's Frostweed	R-1
Helianthemum canadense (L.) Michx.	Long-branched Frostweed	R-3
Helianthus divaricatus L.	Rough Woodland Sunflower	R-4
Helianthus giganteus L.	Tall Wild Sunflower	X
Helianthus rigidus Desf.	Sunflower	X
Helianthus strumosus L.	Pale-leaved Wood Sunflower	R-1
Helianthus tuberosus L.	Jerusalem Artichoke	R-4
Heliopsis helianthoides (L.) Sweet	Sweet Ox-eye	R-4
Heracleum lanatum Michx.	Cow-parsnip	X
Heteranthera dubia (Jacq.) MacM.	Grassleaf Mud-plantain	X
Hieracium canadense Michx.	Canada Hawkweed	X
Hieracium flagellare Willd.	Hawkweed	X
Hieracium gronovii L.	Gronovius' Hawkweed	R-3
Hieracium scabrum Michx.	Rough Hawkweed	X
Hierochloa odorata ssp. odorata	Holy Grass	X
Hippuris vulgaris L.	Common Mare's-tail	R-3
Hydrocotyle americana L.	American Marsh-pennywort	X
Hydrophyllum canadense L.	Canada Water-leaf	X
Hydrophyllum virginianum L.	Virginia Water-leaf	X
Hypericum ascyron L.	Great St. John's-wort	X
Hypericum canadense L.	Canadian St. John's-wort	X

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Hypericum kalmianum L.	Kalm's St. John's-wort	X
Hypericum majus (A. Gray) Britton	Larger Can. St. John's-wort	X
Hypericum mutilum L. ssp. boreale (Britton) J.M. Gillett	Northern St. John's-wort	X
Hypericum mutilum L. ssp. mutilum	Dwarf St. John's-wort	X
Hypericum punctatum Lam.	Corymbed St. John's-wort	X
Ilex verticillata (L.) A. Gray	Winterberry	X
Impatiens capensis Meerb.	Spotted Touch-me-not	X
Impatiens pallida Nutt.	Pale Touch-me-not	X
Iris versicolor	Large Blue Flag	X
Iris virginica	Southern Blue Flag	R-2
Isoetes echinospora Durieu	Spiny-spored Quillwort	X
Isoetes engelmannii A. Braun	Engelmann's Quillwort	R-1
Isoetes macrospora Durieu.	Big-spored Quillwort	R-4
Isoetes X eatonii Dodge	Eaton's Quillwort	R-1
Juglans cinerea	Butternut	X
Juglans nigra	Black Walnut	R-1
Juncus acuminatus	Taper-tip Rush	R-5
Juncus alpinoarticulatus	Alpine Rush	X
Juncus articulatus	Jointed Rush	X
Juncus balticus	Baltic Rush	X
Juncus brachycephalus	Short-headed Rush	X
Juncus brevicaudatus	Narrow-Panicle Rush	X
Juncus bufonius	Toad-Rush	X
Juncus canadensis	Canada Rush	X
Juncus dudleyi	Dudley's Rush	X
Juncus effusus	Common Rush	X
Juncus filiformis	Thread Rush	R-2
Juncus militaris	Bayonet Rush	R-1
Juncus nodosus	Knotted Rush	X
Juncus pelocarpus	Brown-fruited Rush	X
Juncus secundus	Secund Rush	R-1
Juncus tenuis var. tenuis	Path Rush	X
Juncus torreyi	Torrey's Rush	R-1
Juniperus communis L. var. depressa Pursh	Common Juniper	X
Juniperus horizontalis Moench	Creeping Juniper	R-4
Juniperus virginiana L.	Eastern Red Cedar	X
Kalmia angustifolia L.	Sheep Laurel	R-6
Kalmia polifolia Wangenh.	Bog Laurel	X
Lactuca biennis (Moench) Fern.	Biennial Lettuce	X
Lactuca canadensis L.	Tall Lettuce	X
Lactuca hirsuta Muhlenb. ex Nutt.	Hairy Wood Lettuce	X
Laportea canadensis (L.) Weddell	Wood Nettle	X
Larix laricina (Du Roi) K. Koch	Tamarack	X
Lathyrus japonicus Willd.	Beach Pea	X
Lathyrus palustris L.	Marsh Vetchling	X
Lechea intermedia Legg.	Large-podded Pinweed	X
Ledum groenlandicum Oeder	Labrador-tea	X

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Leersia oryzoides (L.) Sw.	Rice Cut Grass	X
Leersia virginica Willd.	Virginia Cutgrass	R-2
Lemna minor	Lesser Duckweed	X
Lemna trisulca	Star Duckweed	X
Lepidium virginicum L.	Virginia Pepper-grass	R-1
Lespedeza capitata Michx.	Round-headed Bush-clover	R-4
Lespedeza intermedia (S. Watson) Britton	Intermediate Bush-clover	R-2
Lilium canadense L.	Canada Lily	X
Lilium philadelphicum L.	Wood Lily	X
Lindernia dubia (L.) Pennell var.?	Doubtful False Pimpernel	X
Linnaea borealis L. ssp longifolia (Torr.) Hultén	Twinflower	X
Linum medium (Planchon) Britton	Stiff Yellow Flax	R-4
Linum striatum Walter	Ridged Yellow Flax	R-1
Liparis loeselii (L.) L.C. Rich.	Bog Twayblade	X
Listera australis Lindl.	Southern Twayblade	R-1
Listera convallarioides (Sw.) Nutt. ex Ell.	Broad-lipped Twayblade	X
Listera cordata (L.) R. Br. ex Ait. f.	Heart-leaved Twayblade	X
Littorella americana Fern.	American Shoreweed	R-1
Lobelia cardinalis L.	Cardinal-flower	X
Lobelia dortmanna L.	Dortmann's Lobelia	R-3
Lobelia inflata L.	Indian Tobacco	X
Lobelia kalmii L.	Kalm's Lobelia	X
Lobelia siphilitica L.	Great Lobelia	X
Lobelia spicata Lam.	Pale-spiked Lobelia	R-3
Lonicera canadensis Bartram	Fly Honeysuckle	X
Lonicera hirsuta Eaton	Hairy Honeysuckle	X
Ludwigia palustris (L.) Elliot	Marsh Purslane	X
Luzula acuminata Raf.	Wood Rush	R-1
Luzula multiflora (Retz) Lej.	Wood Rush	R-1
Lycopodiella inundata (L.) Holub	Northern Bog Club-moss	R-5
Lycopodium annotinum L.	Bristly Club-moss	X
Lycopodium clavatum L.	Running Club-moss	X
Lycopodium dendroideum Michx.	Prickly Club-moss	X
Lycopodium digitatum A.Br.	Crowfoot Clubmoss	X
Lycopodium lagopus (Laest. Ex C. Hartm.) G. Zinserl. Ex Kuzen.	One-cone Club-moss	X
Lycopodium lucidulum Michx.	Shining Clubmoss	X
Lycopodium obscurum L.	Ground-pine	X
Lycopodium selago L.	Mountain Clubmoss	R-1
Lycopodium tristachyum Pursh.	Ground-Cedar	X
Lycopodium X habereri House.	L. digitatum X L. tristachyum	X
Lycopus americanus Muhlenb. ex Bartram	Cut-leaved Water-horehound	X
Lycopus uniflorus Michx.	Northern Water-horehound	X
Lysimachia ciliata L.	Fringed Loosestrife	X
Lysimachia terrestris (L.) B.S.P.	Swamp Loosestrife	X
Lysimachia thyrsoflora L.	Tufted Loosestrife	X
Maianthemum canadense Desf.	Wild-lily-of-the-valley	X
Maianthemum racemosum ssp. racemosum	False Solomon's-Seal	X

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Maianthemum stellatum (L.) Link	Starflower False Solomon's-seal	X
Maianthemum trifolium (L.) Sloboda	Three-leaf Solomon's-seal	X
Malaxis monophyllos ssp. brachypoda	White Adder's Mouth	X
Malaxis unifolia Michx.	Green Adder's Mouth	X
Matteuccia struthiopteris (L.) Tod. Var. pensylvanica (Willd.) C.V. Morton	Ostrich Fern	X
Medeola virginiana L.	Indian Cucumber Root	X
Melampyrum lineare Desr.	Cow-wheat	X
Melica smithii (Porter ex A. Gray) Vasey	Smith's Melic Grass	X
Menispermum canadense L.	Moonseed	X
Mentha arvensis L. ssp. borealis (Michx.) R.L.Taylor & Macbryde	American Wild Mint	X
Mentha x gentilis L.	Red Mint	X
Mentha x piperita L.	Pepper Mint	X
Menyanthes trifoliata L.	Three-leaved Buckbean	X
Milium effusum L.	Wood Millet	X
Mimulus moschatus Douglas ex Lindl.	Musk-flower	R-4
Mimulus ringens L.	Square-stemmed Monkey-flower	X
Mitchella repens L.	Creeping Partridge-berry	X
Mitella diphylla L.	Two-leaved Bishop's Cap	X
Mitella nuda L.	Naked Mitrewort	X
Monarda didyma L.	Oswego-tea	R-1
Monarda fistulosa L.	Wild Bergamot	X
Moneses uniflora (L.) A.Gray	One-flowered Wintergreen	X
Monotropa hypopithys L.	Pinesap	X
Monotropa uniflora L.	Indian-pipe	X
Muhlenbergia frondosa (Poir. In Lam.) Fern.	Leafy Satin Grass	R-4
Muhlenbergia glomerata (Willd.) Trin.	Glomerate Satin Grass	X
Muhlenbergia mexicana (L.) Trin. var. filiformis (Willd.) Scribn.	Satin Grass	R
Muhlenbergia mexicana (L.) Trin. var. mexicana	Mexican Satin Grass	X
Muhlenbergia uniflora (Muhlenb.) Fern.	One-flowered Satin Grass	R-1
Myosotis laxa Lehm.	Smaller Forget-me-not	X
Myosotis verna Nutt.	Spring Forget-me-not	R-3
Myrica gale L.	Sweet Gale	X
Myriophyllum alternifolium DC.	Loose-flowered Water-milfoil	R-6
Myriophyllum farwellii Morong	Farwell's Water-milfoil	R-4
Myriophyllum heterophyllum Michx.	Various-leaved Water-milfoil	X
Myriophyllum sibiricum Kom.	Pale Water-milfoil	X
Myriophyllum spicatum L.	Eurasian Water-milfoil	X
Myriophyllum tenellum Bigelow	Slender Water-milfoil	R-6
Myriophyllum verticillatum L.	Whorled Water-milfoil	R-4
Najas flexilis (Willd.) Rost. & W. Schmidt	Slender Najas	X
Najas gracillima (A. Braun ex Engelm.) Magnus	Thread-like Najas	R-4
Najas guadalupensis (Spreng.) Magnusson	Guadaloupe Najas	R-2
Nasturtium microphyllum (Boenn.) Reichb.	Small-leaved Water-cress	X
Nelumbo lutea Willd.	American Lotus	R-1
Nemopanthus mucronatus (L.) Loeske	Mountain-holly	X
Nuphar variegata Durand in Clinton	Bullhead Pond-lily	X
Nymphaea odorata Aiton	Fragrant Water-lily	X

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<i>Nymphoides cordata</i> (Elliott) Fern.	8-angled Floating-heart	R-1
<i>Oenothera biennis</i> L.	Common Evening-Primrose	X
<i>Oenothera oakesiana</i> (A. Gray) Robbins ex S. Watson & Coult.	Oakes' Evening-Primrose	R
<i>Oenothera parviflora</i> L.	Small-flowered Evening Primrose	X
<i>Oenothera perennis</i> L.	Perennial Evening-Primrose	X
<i>Ophioglossum pusillum</i> Raf.	Northern Adder's-tongue	X
<i>Orobanche uniflora</i> L.	One-flowered Broom-rape	R-1
<i>Orthilia secunda</i> (L.) House	One-sided Shinleaf	X
<i>Oryzopsis asperifolia</i> Michx.	White-grained Mountain-rice	X
<i>Oryzopsis pungens</i> (Torr. ex Spreng.) A. Hitchc.	Slender Mountain-rice	X
<i>Oryzopsis racemosa</i> (Sm.) Ricker ex A. Hitchc.	Black-fruited Mountain-rice	X
<i>Osmorhiza berterii</i> DC.	Sweet-cicely	X
<i>Osmorhiza claytonii</i> (Michx.) C.B. Clarke	Woolly Sweet-cicely	X
<i>Osmorhiza longistylis</i> (Torr.) DC.	Anise-root	X
<i>Osmunda cinnamomea</i> L.	Cinnamon Fern	X
<i>Osmunda claytoniana</i> L.	Interrupted Fern	X
<i>Osmunda regalis</i> L. var. <i>spectabilis</i> (Willd.) A. Gray	Royal Fern	X
<i>Ostrya virginiana</i> (P. Mill.) K. Koch	Eastern Hop-hornbeam	X
<i>Oxalis acetosella</i> L. ssp. <i>montana</i> (Raf.) Hultén	True Wood-sorrel	X
<i>Oxalis stricta</i> L.	Upright Yellow Wood-sorrel	X
<i>Panax quinquefolius</i> L.	Ginseng	R-5
<i>Panax trifolius</i> L.	Dwarf Ginseng	R-6
<i>Panicum boreale</i> Nash	Northern Witchgrass	R-5
<i>Panicum capillare</i> L.	Old Witch Panic-grass	X
<i>Panicum columbianum</i> Scribner.	American Panic Grass	X
<i>Panicum depauperatum</i> Muhlenb.	Green Panic-Grass	X
<i>Panicum flexile</i> (Gattinger) Scribn.	Wiry Witch Grass	X
<i>Panicum lanuginosum</i> Ell. Var <i>implicatum</i> (Scribn.) Fern.	Panic Grass	X
<i>Panicum latifolium</i> L.	Broad-Leaved Panic Grass	X
<i>Panicum lindheimeri</i> Nash.	Panic Grass	X
<i>Panicum linearifolium</i> Scribner	Slim-leaf Witchgrass	X
<i>Panicum oligosanthes</i> Schultes	Heller's Witchgrass	R-1
<i>Panicum philadelphicum</i> Bernh. ex Trin.	Philadelphia Panic Grass	R-4
<i>Panicum rigidulum</i> Bosc ex Nees	Redtop Panic Grass	R-1
<i>Panicum sphaerocarpon</i> Elliott	Roundfruit Panic Grass	R-1
<i>Panicum spretum</i> Schultes	Panic Grass	R-1
<i>Panicum tuckermanii</i> Fern.	Tuckerman's Panic Grass	R-1
<i>Panicum virgatum</i> L.	Old Switch Panic Grass	X
<i>Panicum xanthophysum</i> A. Gray	Slender Dichantherium	X
<i>Parnassia glauca</i> Raf.	Amer. Grass-of-parnassus	X
<i>Parnassia parviflora</i> DC.	Small-flowered Grass-of-parnassus	R-0
<i>Parthenocissus inserta</i> (A. Kern.) Fritsch	Inserted Virginia-creeper	X
<i>Parthenocissus quinquefolia</i> (L.) Planchon ex DC.	Five-leaved Virginia-creeper	R-1
<i>Pedicularis canadensis</i> L.	Canada Wood-betony	X
<i>Pellaea glabella</i> Mett. Ex Kuhn ssp. <i>glabella</i>	Smooth Cliff-brake	R-4
<i>Peltandra virginica</i> (L.) Schott	Arrow Arum	R-1
<i>Penstemon hirsutus</i> (L.) Willd.	Hairy Beard-tongue	X

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Penthorum sedoides L.	Ditch Stonecrop	X
Petasites frigidus (L.) Fr.	Palmate-leaf Sweet-coltsfoot	X
Phalaris arundinacea L.	Reed Canary Grass	X
Phegopteris connectilis (Michx.) Watt	Northern Beech Fern	X
Phlox divaricata L.	Wild Blue Phlox	X
Phragmites australis (Cav.) Trin ex Steud.	Common Reed	X
Phryma leptostachya L.	Lopseed	X
Physalis heterophylla Nees	Clammy Ground-cherry	X
Physocarpus opulifolius (L.) Maxim.	Ninebark	X
Phytolacca americana L.	Pokeweed	X
Picea glauca (Moench) Voss	White Spruce	X
Picea mariana (Miller) B.S.P.	Black Spruce	X
Pilea fontana (Lunell) Rydb.	Springs Clearweed	R-3
Pilea pumila (L.) Gray	Canada Clearweed	X
Pinus resinosa Sol. Ex Aiton	Red Pine	X
Pinus strobus L.	Eastern White Pine	X
Plantago lanceolata L.	Ribgrass	X
Plantago rugelii Decne.	Rugel's Plantain	X
Platanthera aquilonis Sheviak	Northern Green Orchid	X
Platanthera blephariglottis (Willd.) Lindl.	White Fringed Orchid	R-3
Platanthera dilatata (Pursh) Lindl. ex Beck	Tall White Northern Orchid	R-7
Platanthera flava (L.) Lindl.	Southern Rein-orchid	R-4
Platanthera hookeri (Torr. ex Gray) Lindl.	Hooker's Orchid	R-6
Platanthera lacera (Michx.) G. Don	Ragged Fringed Orchid	X
Platanthera leucophaea (Nutt.) Lindl.	Prairie Fringed Orchid	R-1
Platanthera macrophylla P.M. Brown	Large Round-Leaved Orchid	R-5
Platanthera obtusata (Banks ex Pursh) Lindl.	One-leaf Rein Orchid	X
Platanthera orbiculata (Pursh) Lindl.	Round-Leaved Orchid	R-2
Platanthera psycodes (L.) Lindl.	Small Purple Fringed Orchid	X
Poa alsodes A. Gray	Grove Meadow Grass	R-6
Poa glauca Vahl ssp. glauca	Glaucous Poa	R-1
Poa glauca Vahl ssp. glaucantha (Gaudin) Lindm.	Glaucous Poa	R-3
Poa languida Hitchc.	Languid Poa	R-1
Poa palustris L.	Fowl Meadow Grass	X
Poa saltuensis Fern. & Wiegand	Two-rayed Poa	X
Podophyllum peltatum L.	May-apple	X
Pogonia ophioglossoides (L.) Ker-Gawl.	Rose Pogonia	X
Polanisia dodecandra (L.) DC.	Clammyweed	X
Polygala pauciflora Willd.	Gay Wings	X
Polygala polygama Walter	Racemed Milkwort	R-4
Polygala senega L.	Seneca-snakeroot	R-4
Polygonatum pubescens (Willd.) Pursh	Downy Solomon's-seal	X
Polygonum achoreum Blake	Leathery Knotweed	X
Polygonum amphibium L.	Water Smartweed	X
Polygonum arenastrum Jord. ex Boreau	Oval-leaf Knotweed	X
Polygonum arifolium L.	Halberd-leaved Tear-thumb	R-1
Polygonum aviculare L.	Knotweed	X

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Polygonum careyi Olney	Carey's Smartweed	R-5
Polygonum cilinode Michx.	Fringed Black Bindweed	X
Polygonum douglasii Greene	Douglas Knotweed	X
Polygonum erectum L.	Erect Knotweed	R-1
Polygonum hydropiperoides Michx.	Mild Water-pepper	X
Polygonum lapathifolium L.	Dock-leaf Smartweed	X
Polygonum persicaria L.	Lady's-thumb	X
Polygonum punctatum Ell.	Dotted Smartweed	X
Polygonum ramosissimum Michx.	Bushy Knotweed	R-2
Polygonum sagittatum L.	Arrow-leaved Tearthumb	X
Polygonum scandens L.	Climbing False Buckwheat	X
Polystichum acrostichoides (Michx.) Schott	Christmas Fern	X
Polystichum lonchitis (L.) Roth	Holly Fern	X
Pontederia cordata L.	Pickerelweed	X
Populus balsamifera L.	Balsam Poplar	X
Populus grandidentata Michx.	Large-toothed Aspen	X
Populus tremuloides Michx.	Trembling Aspen	X
Populus x jackii Sarg.	Balm-of-gilead	R-2
Potamogeton alpinus Balb.	Northern Pondweed	R-1
Potamogeton amplifolius Tuckerm.	Large-leaved Pondweed	X
Potamogeton bicupulatus Fern.	Two-cupped Pondweed	R-5
Potamogeton epihydrus Raf.	Nuttall's Pondweed	X
Potamogeton filiformis Pers.	Filiform Pondweed	R-6
Potamogeton foliosus Raf.	Leafy Pondweed	X
Potamogeton friesii Rupr.	Fries' Pondweed	R-5
Potamogeton gramineus L.	Grass-like Pondweed	X
Potamogeton illinoensis Morong	Illinois Pondweed	X
Potamogeton natans L.	Common Floating Pondweed	X
Potamogeton oakesianus Robb.	Oakes' Pondweed	R-2
Potamogeton pectinatus L.	Fennel-leaved Pondweed	X
Potamogeton perfoliatus L.	Clasping-leaved Pondweed	R-1
Potamogeton praelongus Wulfen.	White-stemmed Pondweed	R-4
Potamogeton pusillus L.	Small Pondweed	X
Potamogeton richardsonii (A. Bennett) Rydb.	Richardson's Pondweed	X
Potamogeton robbinsii Oakes	Robbin's Pondweed	X
Potamogeton spirillus Tuckerm.	Spiral Pondweed	X
Potamogeton strictifolius A. Bennett	Straight-leaved Pondweed	R-6
Potamogeton vaginatus Turcz.	Sheathed Pondweed	R-1
Potamogeton vaseyi Robb.	Vasey's Pondweed	R-4
Potamogeton X longingulatus	P.strictifolius X P.zosteriformis	X
Potamogeton zosteriformis Fern.	Flat-stemmed Pondweed	X
Potentilla anserina L. ssp. anserina	Silverweed	X
Potentilla arguta Pursh	Tall Cinquefoil	R-5
Potentilla canadensis L.	Common Cinquefoil	R-5
Potentilla fruticosa L. ssp. floribunda (Pursh) Elkington	Shrubby Cinquefoil	X
Potentilla norvegica L ssp ?	Rough Cinquefoil	X
Potentilla palustris (L.) Scop.	Marsh Cinquefoil	X

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<i>Potentilla simplex</i> Michx.	Old-field Cinquefoil	R-5
<i>Prenanthes alba</i> L.	White Rattlesnake-root	X
<i>Prenanthes altissima</i> L.	Tall White Rattlesnake-root	X
<i>Prenanthes racemosa</i> Michx. ssp. <i>racemosa</i>	Glaucous White Rattlesnake-root	R-3
<i>Primula mistassinica</i> Michx.	Bird's-eye Primrose	X
<i>Proserpinaca palustris</i> L.	Field Mermaid-weed	X
<i>Prunella vulgaris</i> L. ssp. <i>vulgaris</i>	Common Heal-all	X
<i>Prunus nigra</i> Aiton	Canada Plum	X
<i>Prunus pensylvanica</i> L. f.	Pin Cherry	X
<i>Prunus pumila</i> L. var. ?	Sand Cherry	X
<i>Prunus serotina</i> Ehrh.	Black Cherry	X
<i>Prunus virginiana</i> L. ssp. <i>virginiana</i>	Choke Cherry	X
<i>Pteridium aquilinum</i> (L.) Kuhn var. <i>latiusculum</i> (Desv.) L. Underw. Ex A. Heller	Eastern Bracken-fern	X
<i>Pterospora andromedea</i> Nutt.	Giant Bird's Nest	R-2
<i>Puccinellia fernaldii</i> (Hitcch.)		R-6
<i>Pycnanthemum virginianum</i> (L.) Durand & Jackson ex Fern. & Robinson	Virginia Mountain-mint	R-3
<i>Pyrola americana</i> Sweet	Round-leaved Pyrola	X
<i>Pyrola asarifolia</i> Michx.	Pink Pyrola	X
<i>Pyrola chlorantha</i> Sw.	Green-flowered Pyrola	X
<i>Pyrola elliptica</i> Nutt.	Shinleaf	X
<i>Quercus alba</i> L.	White Oak	X
<i>Quercus macrocarpa</i> Michx.	Bur Oak	X
<i>Quercus rubra</i> L.	Red Oak	X
<i>Ranunculus abortivus</i> L.	Kidney-leaf Buttercup	X
<i>Ranunculus aquatilis</i> L. var. <i>diffusus</i> With. ? OPL 5-22	White Water-crowfoot?	X
<i>Ranunculus fascicularis</i> Muhlenb. ex Bigelow	Early Buttercup	R-2
<i>Ranunculus flabellaris</i> Raf.	Yellow Water-crowfoot	R-4
<i>Ranunculus flammula</i> L. var. <i>reptans</i> (L.) E. Meyer	Creeping Spearwort	X
<i>Ranunculus hispidus</i> Michx. var. <i>caricetorum</i> (Greene) T. Duncan	Swamp Buttercup	X
<i>Ranunculus pensylvanicus</i> L. f.	Bristly Buttercup	X
<i>Ranunculus recurvatus</i> Poir. var. <i>recurvatus</i>	Hooked Buttercup	X
<i>Ranunculus rhomboideus</i> Goldie	Prairie Buttercup	R-3
<i>Ranunculus sceleratus</i> L. var. ?	Cursed Buttercup	X
<i>Rhamnus alnifolia</i> L'Hér.	Alder-leaved Buckthorn	X
<i>Rhexia virginica</i> L.	Common Meadow-beauty	R-5
<i>Rhus aromatica</i> Aiton	Fragrant Sumac	R-2
<i>Rhus glabra</i> L.	Smooth Sumac	R-1
<i>Rhus radicans</i> L. ssp. <i>negundo</i> (Greene) McNeill	(Climbing) Poison-ivy	X
<i>Rhus rydbergii</i> Small ex Rydb.	Western Poison-ivy	X
<i>Rhus typhina</i> L.	Staghorn Sumac	X
<i>Rhus vernix</i> L.	Poison Sumac	R-1
<i>Rhynchospora alba</i> (L.) M. Vahl	White Beaked-rush	X
<i>Rhynchospora capillacea</i> Torr.	Capillary Beaked-rush	X
<i>Rhynchospora capitellata</i> (Michx.) M. Vahl	Small-headed Beaked-rush	R-3
<i>Rhynchospora fusca</i> (L.) Aiton f.	Brown Beaked-rush	R-4
<i>Ribes americanum</i> Miller	Wild Black Current	X
<i>Ribes cynosbati</i> L.	Prickly Gooseberry	X

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Ribes glandulosum Grauer	Skunk Current	X
Ribes hirtellum Michx.	Smooth Gooseberry	X
Ribes hudsonianum Richardson	Hudson Bay Current	R-2
Ribes lacustre (Pers.) Poir.	Swamp Black Current	X
Ribes odoratum Wendl. f.	Buffalo Current	X
Ribes rubrum L.	Red Current	X
Ribes triste Pall.	Wild Red Current	X
Rorippa palustris (L.) Besser ssp. fernaldiana (Butters & Abbe) Jonsell	Marsh Yellow-cress	X
Rosa acicularis Lindl. ssp. sayi (Schwein.) W. Lewis	Prickly Rose	X
Rosa blanda Aiton	Smooth Rose	X
Rosa carolina L.	Swamp Rose	R-1
Rosa multiflora Thunb. ex Murray	Multiflora Rose	X
Rosa palustris Marshall	Marsh Rose	X
Rubus allegheniensis Porter	Alleghany Blackberry	X
Rubus canadensis L.	Millspaugh's Blackberry	R-1
Rubus flagellaris Willd.	Prickly Raspberry	X
Rubus hispidus L.	Trailing Blackberry	X
Rubus idaeus L. ssp. melanolasius (Dieck) Focke	Wild Red Raspberry	X
Rubus occidentalis L.	Thimble-berry	X
Rubus odoratus L.	Purple Flowering Raspberry	R-5
Rubus pubescens Raf.	Dwarf Raspberry	X
Rubus setosus Bigelow	Bristly Raspberry	R-1
Rudbeckia hirta L.	Black-eyed Susan	X
Rudbeckia laciniata L.	Tall Coneflower	X
Rumex orbiculatus Gray.	Water Dock	X
Rumex triangulivalvis (Danser) Rech. F.	Triangular-valve Dock	R-1
Rumex verticillatus L.	Swamp Dock	X
Sagina procumbens L.	Procumbent Pearlwort	X
Sagittaria cuneata E. Sheld.	Northern Arrowhead	X
Sagittaria graminea Engelm. var. cristata (Engelm.) Bogin	Grass-leaved Arrowhead	X
Sagittaria graminea Michx. Var. graminea	Grass-leaved Arrowhead	R-1
Sagittaria latifolia Willd.	Broad-leaved Arrowhead	X
Sagittaria rigida Pursh	Sessile-fruited Arrowhead	X
Salix alba L.	White Willow	X
Salix amygdaloides Anderss.	Peachleaf Willow	X
Salix bebbiana Sarg.	Bebb Willow	X
Salix candida Fluegge ex Willd	Hoary Willow	X
Salix cordata Michx.	Sand Dune Willow	R-6
Salix discolor Muhl.	Pussy Willow	X
Salix eriocephala Michx.	Heart-leaved Willow	X
Salix exigua Nutt.	Sandbar Willow	X
Salix humilis Marsh.	Tall Prairie Willow	X
Salix lucida Muhl.	Shining Willow	X
Salix myricoides Muhl.	Blue-leaf Willow	R-6
Salix nigra Marsh.	Black Willow	X
Salix pedicellaris Pursh	Bog Willow	R-5
Salix petiolaris Sm.	Meadow Willow	X

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Salix pyrifolia Anderss.	Balsam Willow	X
Salix serissima (Bailey) Fern.	Autumn Willow	X
Sambucus canadensis L.	Common Elderberry	X
Sambucus racemosa L. ssp. Pubens (Michx.) House	Red-berried Elderberry	X
Samolus valerandi L. ssp. parviflorus (Raf.) Hultén	Brookweed	R-3
Sanguinaria canadensis L.	Bloodroot	X
Sanicula marilandica L.	Black Snakeroot	X
Sanicula odorata (Raf.) Pryer & Phillippe	Clustered Snakeroot	X
Sanicula trifoliata E.P. Bicknell	Large-fruited Snakeroot	R-3
Sarracenia purpurea L.	Pitcher-plant	X
Satureja vulgaris (L.) Fritsch var. neogaea	Dogmint	X
Saururus cernuus L.	Lizard's-Tail	R-2
Saxifraga virginiana Michx.	Early Saxifrage	X
Scheuchzeria palustris L.	Marsh Scheuchzeria	R-2
Schizachne purpurascens (Torr.) Swallen ssp. purpurascens	False Melic Grass	X
Schizachyrium scoparium (Michx.) Nash	Little Bluestem	X
Scirpus acutus Muhlenb. ex Bigelow	Hard-stemmed Bulrush	X
Scirpus atrovirens Willd.	Dark-green Bulrush	X
Scirpus cespitosus L. ssp. cespitosus	Cespitose Bulrush	R-1
Scirpus clintonii A. Gray	Clinton's Club-rush	R-1
Scirpus cyperinus (L.) Kunth	Wool-grass	X
Scirpus fluviatilis (Torr.) A. Gray	River Bulrush	X
Scirpus heterochaetus Chase	Pale Great Bulrush	R-1
Scirpus hudsonianus (Michx.) Fern.	Hudson Bay Bulrush	X
Scirpus microcarpus C. Presl	Small-fruited Bulrush	X
Scirpus pendulus Muhlenb. ex Willd.	Lined Bulrush	X
Scirpus pungens M. Vahl	Common Three-square	X
Scirpus smithii A. Gray	Smith's Club-rush	R-2
Scirpus subterminalis Torr.	Water Club-rush	X
Scirpus torreyi Olney	Torrey's Bulrush	R-3
Scirpus validus L.	American Great Bulrush	X
Scleria verticillata Muhlenb. ex Willd.	Low Nut-rush	R-4
Scrophularia lanceolata Pursh	Lance-leaved Figwort	X
Scutellaria galericulata L.	Hooded Skullcap	X
Scutellaria lateriflora L.	Mad-dog Skullcap	X
Scutellaria parvula Michx. var. parvula	Small Skullcap	R-6
Selaginella eclipses W.R. Buck	Meadow Spike-moss	X
Selaginella rupestris (L.) Spring	Rock Spike-moss	X
Selaginella selaginoides (L.) P.Beauv. Ex Martius & Schrank	Northern Spike-moss	R-3
Senecio aureus L.	Golden Groundsel	X
Senecio pauperculus Michx.	Balsam Groundsel	X
Shepherdia canadensis (L.) Nutt.	Canada Soapberry	X
Sicyos angulatus L.	One-seeded Bur-cucumber	R-1
Silene antirrhina L.	Sleepy Catchfly	X
Sisyrinchium angustifolium	Stout Blue-eyed Grass	X
Sisyrinchium montanum	Common Blue-eyed Grass	X
Sisyrinchium mucronatum	Slender Blue-eyed Grass	R-5

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<i>Sium suave</i> Walter	Hemlock Water-parsnip	X
<i>Smilax herbacea</i> L.	Smooth Herbaceous Greenbrier	X
<i>Smilax hispida</i> Muhl. ex Torr.	Hispid Greenbrier	X
<i>Solidago altissima</i> L. var.?	Tall Goldenrod	R-4
<i>Solidago caesia</i> L.	Blue-stem Goldenrod	X
<i>Solidago canadensis</i> L.	Canada Goldenrod	X
<i>Solidago flexicaulis</i> L.	Zig-zag Goldenrod	X
<i>Solidago gigantea</i> Aiton	Giant Goldenrod	X
<i>Solidago hispida</i> Muhlenb. var.?	Hairy Goldenrod	X
<i>Solidago juncea</i> Aiton	Early Goldenrod	X
<i>Solidago nemoralis</i> Aiton ssp.?	Gray Goldenrod	X
<i>Solidago ohioensis</i> Riddell	Ohio Goldenrod	X
<i>Solidago patula</i> Muhlenb. ex Willd.	Rough-leaved Goldenrod	R-1
<i>Solidago ptarmicoides</i> (Nees) B.Boivin	Upland White Aster	R-1
<i>Solidago rugosa</i> Aiton ssp. <i>rugosa</i>	Rough Goldenrod	X
<i>Solidago squarrosa</i> Muhlenb. ex Nutt.	Rugged Goldenrod	X
<i>Solidago uliginosa</i> Nutt.	Marsh Goldenrod	X
<i>Sorbus americana</i> Marshall	American Mountain-ash	R-1
<i>Sorbus decora</i> (Sarg.) C.K. Schneid.	Showy Mountain-ash	R-5
<i>Sorghastrum nutans</i> (L.) Nash	Yellow Indian-grass	X
<i>Sparganium americanum</i> Nutt.	Nuttall's Bur-reed	X
<i>Sparganium angustifolium</i> Michx.	Narrow-leaved Bur-reed	X
<i>Sparganium emersum</i> Rehmann ssp. <i>emersum</i>	Green-fruited Bur-reed	X
<i>Sparganium eurycarpum</i> Engelm. Ex A. Gray	Broad-fruited Bur-reed	X
<i>Sparganium fluctuans</i> (Morong) Robinson	Floating Bur-reed	R-6
<i>Sparganium minimum</i> (Hartm.)	Bur-reed	R-5
<i>Spartina pectinata</i> Link.	Fresh Water Cordgrass	X
<i>Sphenopholis intermedia</i> (Rydb.) Rydb.	Slender Wedge Grass	X
<i>Spiraea alba</i> Du Roi	Narrow-leaved Meadow-sweet	X
<i>Spiraea tomentosa</i> L.	Tomentose Meadow-sweet	X
<i>Spiranthes casei</i> Catling & Cruise	Case's Ladies'-Tresses	X
<i>Spiranthes cernua</i> (L.) L.C. Rich.	Nodding Ladies'-Tresses	X
<i>Spiranthes lacera</i> (Raf.) Raf.	Slender Ladies'-Tresses	X
<i>Spiranthes lucida</i> (H.H. Eat.) Ames	Shinning Ladies'-Tresses	R-2
<i>Spiranthes romanzoffiana</i> Cham.	Hooded Ladies'-Tresses	X
<i>Spirodela polyrhiza</i>	Greater Duckweed	X
<i>Sporobolus cryptandrus</i> (Torr.) A. Gray	Sand Dropseed	X
<i>Sporobolus neglectus</i> Nash	Overlooked Dropseed	R-4
<i>Sporobolus vaginiflorus</i> (Torr. ex A. Gray) Torr. ex Alph. Wood	Ensheathed Dropseed	X
<i>Stachys palustris</i> L.	Hedge-nettle	X
<i>Staphylea trifolia</i> L.	American Bladder-nut	R-2
<i>Stellaria borealis</i> Bigelow ssp. <i>borealis</i>	Northern Chickweed	R-3
<i>Stellaria longifolia</i> Muhlenb. ex Willd.	Long-leaved Chickweed	X
<i>Stipa spartea</i> Trin.	Porcupine Bunch Grass	R-2
<i>Streptopus amplexifolius</i> (L.) DC.	White Mandarin	R-2
<i>Streptopus lanceolatus</i> Michx.	Rose Twisted-Stalk	X
<i>Symphoricarpos albus</i> (L.) S.F. Blake	Snowberry	X

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<i>Symplocarpus foetidus</i> (L.) Salisb. ex Nutt.	Skunk Cabbage	R-2
<i>Taenidia integerrima</i> (L.) Drude	Yellow Pimpernel	R-6
<i>Taxus canadensis</i> Marshall	American Yew	X
<i>Teucrium canadense</i> L. ssp. <i>canadense</i>	Wood Germander	R-2
<i>Thalictrum dasycarpum</i> Fischer & Avé-Lall.	Purple Meadow-rue	R-3
<i>Thalictrum dioicum</i> L.	Early Meadow-rue	X
<i>Thalictrum pubescens</i> Pursh	Tall Meadow-rue	X
<i>Thelypteris noveboracensis</i> (L.) Nieuwl.	New York Fern	X
<i>Thelypteris palustris</i> Schott var. <i>pubescens</i> (Lawson) Fern.	Marsh Fern	X
<i>Thuja occidentalis</i> L.	Eastern White Cedar	X
<i>Tiarella cordifolia</i> L.	False Mitrewort	X
<i>Tilia americana</i> L.	American Basswood	X
<i>Tofieldia glutinosa</i> (Michx.) Pers	False Asphodel	X
<i>Triadenum fraseri</i> (Spach) Gleason	Fraser's St. John's-wort	X
<i>Triadenum virginicum</i> (L.) Raf.	Swamp St. John's-wort	R-2
<i>Trichostema brachiatum</i> L.	False Pennyroyal	R-1
<i>Trientalis borealis</i> Raf. ssp. <i>borealis</i>	Star-flower	X
<i>Triglochin maritimum</i> L.	Seaside Arrow-grass	X
<i>Triglochin palustre</i> L.	Marsh Arrow-grass	X
<i>Trillium cernuum</i> L.	Nodding Trillium	X
<i>Trillium erectum</i> L.	Red Trillium	X
<i>Trillium grandiflorum</i> (Michx.) Salisb.	White Trillium	X
<i>Trillium undulatum</i> Willd.	Painted Trillium	X
<i>Triodanis perfoliata</i> (L.) Nieuwl.	Venus' Looking Glass	R-2
<i>Triosteum aurantiacum</i> E.P. Bicknell	Wild Coffee	X
<i>Trisetum melicoides</i> (Michx.) Vasey ex Scribn.	Purple False Oats	R-1
<i>Trisetum spicatum</i> (L.) Richter	Narrow False Oats	R-1
<i>Triticum aestivum</i> L.	Summer Wheat	X
<i>Tsuga canadensis</i> (L.) Carriere	Eastern Hemlock	X
<i>Typha angustifolia</i> L.	Narrow-leaved Cattail	X
<i>Typha latifolia</i> L.	Broad-leaved Cattail	X
<i>Typha X glauca</i> Godron	Glaucous Cattail	X
<i>Ulmus americana</i> L.	American Elm	X
<i>Ulmus rubra</i> Muhl.	Slippery Elm	X
<i>Ulmus thomasii</i> Sarg.	Rock Elm	X
<i>Urtica dioica</i> ssp. <i>Gracilis</i> (Ait.) Seland	Stinging Nettle	X
<i>Utricularia cornuta</i> Michx.	Horned Bladderwort	X
<i>Utricularia geminiscapa</i> Benj.	Hidden-fruited Bladderwort	R-1
<i>Utricularia gibba</i> L..	Humped Bladderwort	X
<i>Utricularia intermedia</i> hayne	Flat-leaved Bladderwort	X
<i>Utricularia minor</i> L.	Lesser Bladderwort	X
<i>Utricularia purpurea</i> Walter	Purple Bladderwort	R-3
<i>Utricularia resupinata</i> Greene ex Bigelow	Inverted Bladderwort	R-4
<i>Utricularia vulgaris</i> L.	Greater Bladderwort	X
<i>Uvularia grandiflora</i>	Large-Flowered Bellwort	X
<i>Vaccinium angustifolium</i> Aiton	Low Sweet Blueberry	X
<i>Vaccinium macrocarpon</i> Aiton	Large Cranberry	X

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<i>Vaccinium myrtilloides</i> Michx.	Velvet-leaf Blueberry	X
<i>Vaccinium oxycoccos</i>	Small Cranberry	X
<i>Valeriana sitchensis</i> Bong. ssp. <i>uliginosa</i> (Torr. & A. Gray) F. Mey.	Swamp Valerian	R-5
<i>Vallisneria americana</i> Michx.	Water-celery	X
<i>Verbena hastata</i> L.	Blue Vervain	X
<i>Verbena stricta</i> Vent.	Hoary Vervain	X
<i>Verbena urticifolia</i> L.	White Vervain	X
<i>Veronica americana</i> (Raf.) Schwein. ex Benth.	American Speedwell	X
<i>Veronica arvensis</i> L.	Corn Speedwell	X
<i>Veronica catenata</i> Pennell	Water Speedwell	R-5
<i>Veronica peregrina</i> L. ssp. <i>xalapensis</i> (Kunth) Pennell	Western Purslane Speedwell	X
<i>Veronica scutellata</i> L.	Marsh Speedwell	X
<i>Viburnum acerifolium</i> L.	Maple-leaved Viburnum	X
<i>Viburnum cassinoides</i> L.	Northern Wild Raisin	X
<i>Viburnum lantanoides</i> Michx.	Hobblebush	X
<i>Viburnum lentago</i> L.	Nannyberry	X
<i>Viburnum rafinesquianum</i> Schult.	Downy Arrow-wood	X
<i>Viburnum trilobum</i> Marshall	High Bush Cranberry	X
<i>Viola adunca</i> Sm.	Hooked-spur Violet	R-5
<i>Viola canadensis</i> L.	Canada Violet	X
<i>Viola conspersa</i> Reichb.	American Dog Violet	X
<i>Viola cucullata</i> Aiton	Marsh Blue Violet	X
<i>Viola fimbriatula</i> Sm.	Violet	X
<i>Viola incognita</i> Brain.	White Violet	X
<i>Viola lanceolata</i> L.	Lance-leaved Violet	X
<i>Viola macloskeyi</i> F.E. Lloyd ssp. <i>pallens</i> (Banks ex DC.) M. Baker	Macloskey's Violet	X
<i>Viola nephrophylla</i> Greene	Northern Bog Violet	X
<i>Viola pallens</i> (Banks) Brain.	Smooth White Violet	X
<i>Viola papilionacea</i> Pursh.	Stemless Blue Violet	X
<i>Viola pubescens</i> Aiton	Downy Yellow Violet	X
<i>Viola renifolia</i> A. Gray	Kidney-leaved Violet	X
<i>Viola rostrata</i> Pursh	Long-spurred Violet	X
<i>Viola sagittata</i> Aiton var. ?	Arrow-leaved Violet	R-1
<i>Viola selkirkii</i> Pursh ex Goldie	Selkirk's Violet	X
<i>Viola septentrionalis</i> Greene	Northern Blue Violet	X
<i>Viola sororia</i> Willd.	Woolly Blue Violet	X
<i>Vitis riparia</i> Michx.	Riverbank Grape	X
<i>Waldsteinia fragarioides</i> (Michx.) Tratt.	Barren Strawberry	X
<i>Wolffia borealis</i>	Water-meal	X
<i>Wolffia columbiana</i>	Columbia Wolffia	X
<i>Woodsia ilvensis</i> (L.) R. Br.	Rusty Woodsia	X
<i>Woodwardia virginica</i> (L.) Sm.	Virginia Chain Fern	X
<i>Xanthium strumarium</i> L.	Tumor-curing Cocklebur	X
<i>Xyris difformis</i> Chapman	Slender Yellow-eyed Grass	R-4
<i>Zannichellia palustris</i> L.	Horned Pondweed	R-1
<i>Zanthoxylum americanum</i> Miller	American Prickly-ash	X
<i>Zigadenus elegans</i> Pursh.	White Camas	X

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Zizania palustris L.	Northern Wild Rice	X
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(* R= Regionally Rare Species – 0=extremely rare, 7= uncommon)