



Hairy Beardtongue (*Penstemon hirsutus*)

# Checklist

## Flora of the Former Carden Township, City of Kawartha Lakes, ON

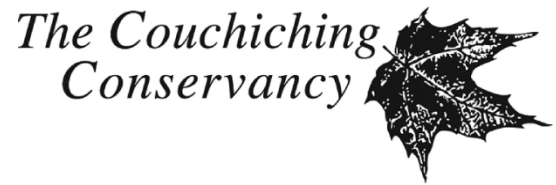
### 2016

Compiled by  
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**The City of Kawartha Lakes Flora Project** is sponsored by the Kawartha Field Naturalists based in Fenelon Falls, Ontario. In 2008, information about plants in CKL was scattered and scarce. At the urging of Michael Oldham, Biologist at the Natural Heritage Information Centre at the Ontario Ministry of Natural Resources and Forestry, Dale Leadbeater and Anne Barbour formed a committee with goals to:



- Generate a list of species found in CKL and their distribution, vouchered by specimens to be housed at the Royal Ontario Museum in Toronto, making them available for future study by the scientific community;
- Improve understanding of natural heritage systems in the CKL;
- Provide insight into changes in the local plant communities as a result of pressures from introduced species, climate change and population growth; and,
- Publish the findings of the project .

Over eight years, more than 200 volunteers and landowners collected almost 2000 voucher specimens, with the permission of landowners. Over 10,000 observations and literature records have been databased. The project has documented 150 new species of which 60 are introduced, 90 are native and one species that had never been reported in Ontario to date. In 2014 the project received the Ontario Nature W.E. Saunders Natural History Award for what was described as "citizen science at its best".

This checklist is the first product of the project, with an annotated checklist for the entire City planned for the future. Updates can be followed at <http://www.kawarthafieldnaturalists.org/>.

## Acknowledgements

The project owes a debt of gratitude to staff of the Royal Ontario Museum and the Natural Heritage Information Centre without whom this project would not be as robust or advanced. We especially acknowledge Michael Oldham (NHIC) who has verified many specimens and gave us the benefit of his Ontario-wide expertise. Deborah Metsger and Timothy Dickinson have also provided important support both in kind and financially. And we are indebted to the Victoria Stewardship Council whose financial support gave the project the tools it needed to manage the data. And last we are grateful to the volunteers who provided field assistance, specimen preparation and database services and food! Carden specialists who provided records include: Anne Barbour, Claudia Schaefer, Dale Leadbeater, Dan Kraus, David Hawke, Don Sutherland, Emily Johnson, Jarmo Jalava, Judith Jones, Kyra Howes, Linda Hellas, Linda Reid, Margo Holt, Michael J. Oldham, Paul M. Catling, Robert L. Bowles, W.S. Dickinson, Wasyl Bakowsky and William J. Crins.

**Artwork was provided by John Vandenberg with our thanks.**

## **Carden Township**

Municipal boundaries are a poor way to organize records for plants whose distribution more often follows watersheds, landforms and/or climate norms, however it is handy for location purposes. The heart of the Carden Alvar falls largely within the former Carden Township (Carden) bounded by Wolf Run Lane in the north, Kawartha Lakes Road 35 (a.k.a. Victoria Road in the east), Rohallion-Talbot River Road in the south and parts of the Mara/Carden and Rama/Dalton Boundary Road/Hwy 6 in the west. Carden is famous for its alvar falling within a narrow band spanning the contact between the Canadian Shield and the Paleozoic sedimentary bedrock to the south extending from Georgian Bay east to the Frontenac Arch near Kingston (McMurtry et al 2008). Long unrecognized for its unique features, this area is now known as “The Land Between”.

Carden occurs on limestone that formed under Paleozoic seas 350 million years ago. In the process of the last glacial retreat ca. 12,000 years ago, vast volumes of meltwater poured into glacial Lake Algonquin, discharging south-west through the Kirkfield Spillway and west toward Georgian Bay, washing away soil in its path leaving behind relatively level limestone with soil depths generally less than 25cm sometimes crossed by deeper moraines. At the toe of the glaciers, boreal plants endured the cold and the wind: elements of the Spruce Parkland and/or Mammoth Steppe. Alpine plants followed the cordilleran spine of eastern North America north from the Appalachians in the wake of the glaciers. Western plants were able to spread east across the exposed ridge during a period when water levels in Lake Huron were much lower (Catling et al 1999). With increasing temperatures and melting permafrost, more and more common species found suitable habitat in Ontario, crowding out the early colonists everywhere except where climatic conditions were harsh, mimicking the glacial environment. On the alvar.

Water drains poorly on the limestone, creating flood conditions in the spring and fall, saturating the soil during the winter, and drying out completely during the hot summers where the temperature can reach up to 53°C. Western, alpine and boreal plants were able to persist under these extreme conditions on the alvar. Forests more typical of the surrounding countryside developed on the deep soils of the moraines and spread from the grykes and crevasses in the limestone where the trees could get a toehold. Swamps filled shallow depressions in the bedrock, and where cold groundwater discharges from adjacent moraine, even a bog and swamps accumulated with deep organic soils more typical of boreal areas.

There were four Huron villages in the 1500’s who likely tried to farm where the soils were slightly deeper. (Kirkconnell 1967). By the arrival of the lumber barons, although alvar likely always occurred much of Carden was covered in more extensive forest according to the first land surveys of 1856, including towering white pine (*Pinus strobus*) (Reschke et al 1999). Removal of the forest by settlers likely created more alvar that was

*“Alvars are natural communities of humid and sub-humid climates, centered around areas of glaciated horizontal limestone/dolomite (dolostone) bedrock pavement with a discontinuous thin soil mantle. These communities are characterized by distinctive flora and fauna with less than 60% tree cover that is maintained by associated geologic, hydrologic, and other landscape processes. Alvar communities occur in an ecological matrix with similar bedrock and hydrologically influenced communities.”* (Alvar Working Group, in Reschke et al 1999).

maintained by grazing. Grazing is also linked to an increase in non-native plants that may be come invasive like dog strangling vine (*Cynanchum rossicum*) while keeping encroachment by shrubs and trees in check. These openings and the tendency for herbivores to avoid hawthorns (*Crataegus* sp.) have provided good habitat to rare, threatened and endangered birds.

### Background to the List

Over 3500 plant records were reviewed occurring on alvar (38%), followed by wetland and open water (33%), forest (16%), then the disturbed habitats associated with human occupation (13%). The following habitats were identified:

- little bluestem alvar grassland
- juniper alvar shrubland
- tufted hairgrass wet alvar grassland
- annual alvar pavement
- poverty grass dry alvar grassland
- mixed conifer / common juniper alvar woodland
- creeping juniper - shrubby cinquefoil alvar pavement
- alvar nonvascular pavement types
- bur oak limestone savanna
- sugar maple forest
- organic coniferous swamp
- white cedar mineral mixed swamp
- mineral thicket swamp
- swamp maple mineral swamp
- meadow and shallow marsh
- white cedar coniferous forest
- eastern hemlock coniferous forest
- paper birch - poplar - conifer mixed forest
- submerged shallow aquatic
- tamarack - Spruce - fir organic coniferous swamp
- ash and or maple mineral deciduous swamp
- open, shrub and treed bog

This list confirms the occurrence of 768 plants in 107 families: clubmosses, spikemoss and ferns, conifers, wildflowers, trees and shrubs. It is not complete. There were 26 reported species that could not be confirmed that are listed at the end. They may be misidentifications or solitary reports for which there is no preserved specimen in a recognized herbarium and they may be confirmed in the future...

The list is organized phylogenetically, reflecting the evolutionary history of the group. **ORDERS** are used to group the families that are most similar. The plant **families** are listed alphabetically within the orders. This approach is similar to that used in The ROM Field Guide to Wildflowers in Ontario (Dickinson et al 2004) enabling users to review closely related species to aid in identification. Some synonyms (names that have changed) are provided to assist with understanding recent revisions but please refer to VASCAN (Note 1) for an exhaustive list.

Sightings of additional flora species are welcomed, but require photographic evidence. Please do not collect rare species. Send reports to Kawartha Field Naturalists, Box 313, Fenelon Falls, ON, K0M 1N0, [contactus@kawarthafieldnaturalists.org](mailto:contactus@kawarthafieldnaturalists.org), Dale Leadbeater, [dleadbeater@gmail.com](mailto:dleadbeater@gmail.com) or Anne Barbour, [anne.barbour@bell.net](mailto:anne.barbour@bell.net).

## CLUBMOSS, SPIKEMOSS AND FERNS

**ORDER:**

**FAMILY**

SRank<sup>1</sup> Scientific Name according to VASCAN<sup>2</sup>

common name

**ORDER: Lycopodiales**

**LYCOPODIACEAE - clubmoss family**

**TOTAL: 4**

- Diphasiastrum complanatum* (L.) Holub northern ground-cedar  
[=*Lycopodium complanatum*]
- Diphasiastrum digitatum* (Dillenius ex A. Braun) Holub southern ground-cedar  
[=*Lycopodium digitatum*]
- Lycopodium annotinum* L. stiff clubmoss
- Lycopodium clavatum* L. running clubmoss

**ORDER: Selaginellales**

**SELAGINELLACEAE - spikemoss family**

**TOTAL: 1**

- Selaginella rupestris* (L.) Spring rock spikemoss

**ORDER: Ophioglossales**

**OPHIOGLOSSACEAE - adder's tongue family**

**TOTAL: 2**

- Botrypus virginianus* (L.) Michx. rattlesnake fern  
[=*Botrychium virginianum*]
- Sceptridium multifidum* (S.G. Gmelin) Nishida ex Tagawa leathery grapefern  
[= *Botrychium multifidum*]

**ORDER: Equisetales**

**EQUISETACEAE - horsetail family**

**TOTAL: 9**

- Equisetum arvense* L. field horsetail
- Equisetum fluviatile* L. water horsetail
- Equisetum hyemale* L. common scouring-rush
- Equisetum laevigatum* A. Braun smooth scouring-rush
- Equisetum palustre* L. marsh horsetail
- Equisetum pratense* Ehrhart meadow horsetail
- Equisetum scirpoides* Michx. dwarf scouring-rush
- Equisetum sylvaticum* L. woodland horsetail
- Equisetum variegatum* Schleicher ex F. Weber & D. Mohr variegated scouring-rush

**ORDER: Osmundales**

**OSMUNDACEAE - royal fern family**

**TOTAL: 3**

- Osmunda claytoniana* L. interrupted fern
- Osmunda regalis* L. royal fern
- Osmundastrum cinnamomeum* (L.) C. Presl cinnamon fern  
[= *Osmunda cinnamomea*]

**ORDER: Polypodiales**

**ASPLENIACEAE - spleenwort family**

**TOTAL: 2**

- S4 *Asplenium rhizophyllum* L. walking fern
- S4 *Asplenium trichomanes* L. limestone maidenhair spleenwort

**ATHYRIACEAE - lady fern family**

**TOTAL: 1**

- Athyrium filix-femina* (L.) Roth ex Mertens common lady fern

**CYSTOPTERIDACEAE – bladder fern family**

**TOTAL: 4**

- Cystopteris bulbifera* (L.) Bernhardtii bulblet bladder fern
- S4 *Cystopteris fragilis* (L.) Bernhardtii fragile fern
- S4 *Cystopteris tenuis* (Michx.) Desvaux Mackay's brittle fern
- Gymnocarpium dryopteris* (L.) Newman common oak fern



	<b>DENNSTAEDTIACEAE - bracken fern family</b>	<b>TOTAL: 2</b>
<input type="checkbox"/>	S4 <i>Dennstaedtia punctilobula</i> (Michx.) T. Moore	eastern hay-scented fern
<input type="checkbox"/>	<i>Pteridium aquilinum</i> (L.) Kuhn	bracken fern
	<b>DRYOPTERIDACEAE - wood fern family</b>	<b>TOTAL: 7</b>
<input type="checkbox"/>	<i>Dryopteris carthusiana</i> (Villars) H.P. Fuchs	spinulose wood fern
<input type="checkbox"/>	S4 <i>Dryopteris clintoniana</i> (D.C. Eaton) Dowell	Clinton's wood fern
<input type="checkbox"/>	<i>Dryopteris cristata</i> (L.) A. Gray	crested wood fern
<input type="checkbox"/>	S4 <i>Dryopteris goldiana</i> (Hooker ex Goldie) A. Gray	Goldie's wood fern
<input type="checkbox"/>	<i>Dryopteris intermedia</i> (Muhlenb. ex Willd.) A. Gray	evergreen wood fern
<input type="checkbox"/>	<i>Dryopteris marginalis</i> (L.) A. Gray	marginal wood fern
<input type="checkbox"/>	<i>Polystichum acrostichoides</i> (Michx.) Schott	Christmas fern
	<b>ONOCLEACEAE – sensitive fern family</b>	<b>TOTAL: 2</b>
<input type="checkbox"/>	<i>Matteuccia struthiopteris</i> (L.) Todaro	ostrich fern
<input type="checkbox"/>	<i>Onoclea sensibilis</i> L.	sensitive fern
	<b>POLYPODIACEAE - polypody family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>	<i>Polypodium virginianum</i> L.	rock polypody
	<b>PTERIDACEAE - maidenhair fern family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>	<i>Adiantum pedatum</i> L.	northern maidenhair fern
	<b>THELYPTERIDACEAE - marsh fern family</b>	<b>TOTAL: 2</b>
<input type="checkbox"/>	S4S5 <i>Thelypteris noveboracensis</i> (L.) Nieuwland	New York fern
<input type="checkbox"/>	<i>Thelypteris palustris</i> Schott	marsh fern

## CONIFEROUS TREES AND SHRUBS

<b>ORDER: <u>Pinales</u></b>	<b>PINACEAE - pine family</b>	<b>TOTAL: 8</b>
<input type="checkbox"/>	<i>Abies balsamea</i> (L.) Miller	balsam fir
<input type="checkbox"/>	<i>Larix laricina</i> (Du Roi) K. Koch	tamarack
<input type="checkbox"/>	<i>Picea glauca</i> (Moench) Voss	white spruce
<input type="checkbox"/>	<i>Picea mariana</i> (Miller) Britton, Sterns & Poggenb.	black spruce
<input type="checkbox"/>	<i>Pinus resinosa</i> Aiton	red pine
<input type="checkbox"/>	<i>Pinus strobus</i> L.	eastern white pine
<input type="checkbox"/>	I <i>Pinus sylvestris</i> L.	Scots pine
<input type="checkbox"/>	<i>Tsuga canadensis</i> (L.) Carrière	eastern hemlock
<b>ORDER: <u>Cupressales</u></b>	<b>CUPRESSACEAE - cypress family</b>	<b>TOTAL: 3</b>
<input type="checkbox"/>	<i>Juniperus communis</i> L.	ground juniper
<input type="checkbox"/>	<i>Juniperus virginiana</i> L.	eastern red cedar
<input type="checkbox"/>	<i>Thuja occidentalis</i> L.	eastern white cedar
	<b>TAXACEAE - yew family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>	S4 <i>Taxus canadensis</i> Marshall	Canada yew

## PALEOHERBS

<b>ORDER: <u>Nymphaeales</u></b>	<b>CABOMBACEAE - water-shield family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>	<i>Brasenia schreberi</i> J.F. Gmelin	watershield
	<b>NYMphaeACEAE - water-lily family</b>	<b>TOTAL: 2</b>
<input type="checkbox"/>	<i>Nuphar variegata</i> Engelm. ex Durand	variegated pond-lily
<input type="checkbox"/>	<i>Nymphaea odorata</i> Aiton	fragrant water-lily

## MAGNOLIIDS

<b>ORDER:</b>	<b><u>Piperales</u></b>	<b>ARISTOLOCHIACEAE - dutchman's-pipe family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>	<i>Asarum canadense</i> L.	Canada wild ginger	

## MONOCOTS

<b>ORDER:</b>	<b><u>Alismatales</u></b>	<b>ALISMATACEAE - water-plantain family</b>	<b>TOTAL: 4</b>
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- Alisma triviale* Pursh  
[= part of *Alisma plantago-aquatica*] northern water-plantain
- Sagittaria cuneata* E. Sheldon northern arrowhead
- Sagittaria latifolia* Willd. broad-leaved arrowhead
- Sagittaria rigida* Pursh sessile-fruited arrowhead

<b>ARACEAE - Arum family</b>	<b>TOTAL: 5</b>
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- Arisaema triphyllum* (L.) Schott Jack-in-the-pulpit
- Calla palustris* L. wild calla
- Lemna minor* L. small duckweed
- Lemna trisulca* L. star duckweed
- Spirodela polyrhiza* (L.) Schleiden great duckweed

<b>HYDROCHARITACEAE - frog-bit family</b>	<b>TOTAL: 4</b>
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- Elodea canadensis* Michx. Canada waterweed
- Hydrocharis morsus-ranae* L. European frog-bit
- Najas flexilis* (Willd.) Rostkov. & W. Schmidt slender naiad
- Vallisneria americana* Michx. American eelgrass

<b>POTAMOGETONACEAE - pondweed family</b>	<b>TOTAL: 9</b>
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- Potamogeton amplifolius* Tuckerman large-leaved pondweed
- Potamogeton foliosus* Raf. leafy pondweed
- Potamogeton gramineus* L. grass-leaved pondweed
- Potamogeton natans* L. floating-leaved pondweed
- Potamogeton pusillus* L. small pondweed
- Potamogeton pusillus* ssp. *tenuissimus*  
(Mertens & Koch) Haynes & Hellquist [= *Potamogeton berchtoldii*] narrow-leaved small pondweed
- Potamogeton richardsonii* (A. Bennett) Rydb. Richardson's pondweed
- Potamogeton zosteriformis* Fern. flat-stemmed pondweed
- Stuckenia pectinata* (L.) Börner sago pondweed  
[= *Potamogeton pectinatus*]

<b>ORDER:</b>	<b><u>Liliales</u></b>	<b>COLCHICACEAE - bellwort family</b>	<b>TOTAL: 2</b>
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- Streptopus lanceolatus* (Aiton) Reveal eastern rose twisted-stalk  
[= *Streptopus roseus*]
- Uvularia grandiflora* J.E. Smith large-flowered bellwort

<b>LILIACEAE - lily family</b>		<b>TOTAL: 4</b>
<input type="checkbox"/>	<i>Clintonia borealis</i> (Aiton) Raf.	yellow clintonia
<input type="checkbox"/>	<i>Erythronium americanum</i> Ker Gawler	yellow trout lily
<input type="checkbox"/>	<i>Lilium philadelphicum</i> L.	wood lily
<input type="checkbox"/>	<i>Medeola virginiana</i> L.	Indian cucumber-root
<b>MELANTHIACEAE - bunchflower family</b>		<b>TOTAL: 4</b>
<input type="checkbox"/>	S4 <i>Anticlea elegans</i> (Pursh) Rydb. [= <i>Zigadenus elegans</i> ssp. <i>glaucus</i> ]	mountain death camas = [wild camas]
<input type="checkbox"/>	<i>Trillium cernuum</i> L.	nodding trillium
<input type="checkbox"/>	<i>Trillium erectum</i> L.	red trillium
<input type="checkbox"/>	<i>Trillium grandiflorum</i> (Michx.) Salisbury	white trillium
<b>SMILACACEAE - catbrier family</b>		<b>TOTAL: 2</b>
<input type="checkbox"/>	S4? <i>Smilax herbacea</i> L.	herbaceous carrionflower
<input type="checkbox"/>	<i>Smilax tamnoides</i> L. [= <i>Smilax hispida</i> ]	bristly greenbrier
<b>ORDER: <u>Asparagales</u></b>		
<b>AMARYLLIDACEAE - Amaryllis family</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>	S4 <i>Allium tricoccum</i> Aiton	wild leek = [wild chives]
<b>ASPARAGACEAE - Asparagus family</b>		<b>TOTAL: 7</b>
<input type="checkbox"/>	I <i>Asparagus officinalis</i> L.	garden asparagus
<input type="checkbox"/>	<i>Maianthemum canadense</i> Desf.	wild lily-of-the-valley
<input type="checkbox"/>	<i>Maianthemum racemosum</i> (L.) Link	large false Solomon's seal
<input type="checkbox"/>	<i>Maianthemum stellatum</i> (L.) Link	star-flowered false Solomon's seal
<input type="checkbox"/>	<i>Maianthemum trifolium</i> (L.) Sloboda	three-leaved false Solomon's seal
<input type="checkbox"/>	S4 <i>Polygonatum biflorum</i> (Walter) Elliott	giant Solomon's seal
<input type="checkbox"/>	<i>Polygonatum pubescens</i> (Willd.) Pursh	hairy Solomon's seal
<b>IRIDACEAE - Iris family</b>		<b>TOTAL: 2</b>
<input type="checkbox"/>	<i>Iris versicolor</i> L.	harlequin blue flag
<input type="checkbox"/>	<i>Sisyrinchium montanum</i> Greene	strict blue-eyed grass
<b>ORCHIDACEAE - orchid family</b>		<b>TOTAL: 19</b>
<input type="checkbox"/>	<i>Corallorhiza trifida</i> Châtel.	early coralroot
<input type="checkbox"/>	<i>Cypripedium acaule</i> Aiton	pink lady's-slipper
<input type="checkbox"/>	S4S5 <i>Cypripedium parviflorum</i> var. <i>makasin</i> (Farwell) Sheviak [= <i>Cypripedium calceolus</i> var. <i>parviflorum</i> ]	small yellow lady's-slipper
<input type="checkbox"/>	<i>Cypripedium parviflorum</i> var. <i>pubescens</i> (Willd.) Knight [= <i>Cypripedium calceolus</i> var. <i>pubescens</i> ]	large yellow lady's-slipper
<input type="checkbox"/>	S4 <i>Cypripedium reginae</i> Walter	showy lady's-slipper
<input type="checkbox"/>	I <i>Epipactis helleborine</i> (L.) Crantz	broad-leaved helleborine
<input type="checkbox"/>	S4 <i>Goodyera pubescens</i> (Willd.) R. Br. [= <i>Epipactis pubescens</i> ]	downy rattlesnake-plantain
<input type="checkbox"/>	<i>Goodyera repens</i> (L.) R. Br. [= <i>Epipactis repens</i> ]	dwarf rattlesnake-plantain
<input type="checkbox"/>	S4S5 <i>Liparis loeselii</i> (L.) Richard	Loesel's twayblade
<input type="checkbox"/>	S4S5 <i>Malaxis unifolia</i> Michx. [= <i>Microstylis unifolia</i> ]	green adder's-mouth



- |                          |   |                                  |
|--------------------------|---|----------------------------------|
| <input type="checkbox"/> | <i>Platanthera aquilonis</i> Sheviak<br>[= <i>Platanthera hyperborea</i> of some authors] | tall northern green orchid       |
| <input type="checkbox"/> | S4 <i>Platanthera lacera</i> (Michx.) G. Don<br>[= <i>Habenaria lacera</i> ]              | ragged fringed orchid            |
| <input type="checkbox"/> | <i>Platanthera obtusata</i> (Banks ex Pursh) Lindley<br>[= <i>Habenaria obtusata</i> ]    | blunt-leaved orchid              |
| <input type="checkbox"/> | S4 <i>Spiranthes casei</i> Catling & Cruise   | Case's ladies'-tresses           |
| <input type="checkbox"/> | <i>Spiranthes cernua</i> (L.) Richard   | nodding ladies'-tresses          |
| <input type="checkbox"/> | <i>Spiranthes lacera</i> (Raf.) Raf. var. <i>lacera</i>                                   | northern slender ladies'-tresses |
| <input type="checkbox"/> | S4 <i>Spiranthes lucida</i> (H.H. Eaton) Ames   | shining ladies'-tresses          |
| <input type="checkbox"/> | S3? <i>Spiranthes magnicamporum</i> Sheviak   | Great Plains ladies'-tresses     |
| <input type="checkbox"/> | <i>Spiranthes romanzoffiana</i> Cham.   | hooded ladies'-tresses           |

**XANTHORRHOEACEAE - Hemerocallis family**

**TOTAL: 1**

- |                          |                                     |                |
|--------------------------|-------------------------------------|----------------|
| <input type="checkbox"/> | I <i>Hemerocallis fulva</i> (L.) L. | orange daylily |
|--------------------------|-------------------------------------|----------------|

**ORDER: Poales**

**CYPERACEAE - sedge family**

**TOTAL: 83**

- |                          |   |                         |
|--------------------------|---|-------------------------|
| <input type="checkbox"/> | <i>Carex albursina</i> E. Sheldon                   | white bear sedge        |
| <input type="checkbox"/> | <i>Carex aquatilis</i> Wahlenb.                     | water sedge             |
| <input type="checkbox"/> | <i>Carex arctata</i> Boott                          | drooping woodland sedge |
| <input type="checkbox"/> | S4 <i>Carex atherodes</i> Sprengel                  | wheat sedge             |
| <input type="checkbox"/> | <i>Carex aurea</i> Nutt.                            | golden sedge            |
| <input type="checkbox"/> | S4 <i>Carex backii</i> Boott                        | Back's sedge            |
| <input type="checkbox"/> | <i>Carex bebbii</i> (L.H. Bailey) Olney ex Fern.    | Bebb's sedge            |
| <input type="checkbox"/> | <i>Carex blanda</i> Dewey                           | woodland sedge          |
| <input type="checkbox"/> | S4 <i>Carex brevior</i> (Dewey) Mackenzie ex Lunell | short-beaked sedge      |
| <input type="checkbox"/> | <i>Carex buxbaumii</i> Wahlenb.                     | Buxbaum's sedge         |
| <input type="checkbox"/> | <i>Carex canescens</i> L.                           | hoary sedge             |
| <input type="checkbox"/> | <i>Carex castanea</i> Wahlenb.                      | chestnut sedge          |
| <input type="checkbox"/> | <i>Carex communis</i> L.H. Bailey                   | fibrous-root sedge      |
| <input type="checkbox"/> | <i>Carex comosa</i> Boott                           | bearded sedge           |
| <input type="checkbox"/> | S4 <i>Carex crawei</i> Dewey                        | Crawe's sedge           |
| <input type="checkbox"/> | <i>Carex crinita</i> Lam.                           | fringed sedge           |
| <input type="checkbox"/> | S4 <i>Carex cryptolepis</i> Mackenzie               | northeastern sedge      |
| <input type="checkbox"/> | <i>Carex deweyana</i> Schwein.                      | Dewey's sedge           |
| <input type="checkbox"/> | <i>Carex diandra</i> Schrank                        | lesser paniced sedge    |
| <input type="checkbox"/> | S4S5 <i>Carex digitalis</i> Willd.                  | slender woodland sedge  |
| <input type="checkbox"/> | <i>Carex disperma</i> Dewey                         | two-seeded sedge        |
| <input type="checkbox"/> | I <i>Carex divulsa</i> Stokes                       | grassland sedge         |
| <input type="checkbox"/> | <i>Carex eburnea</i> Boott                          | bristle-leaved sedge    |
| <input type="checkbox"/> | <i>Carex echinata</i> Murray                        | star sedge              |
| <input type="checkbox"/> | <i>Carex flava</i> L.                               | yellow sedge            |
| <input type="checkbox"/> | <i>Carex foenea</i> Willd.                          | bronze sedge            |
| <input type="checkbox"/> | S4 <i>Carex formosa</i> Dewey                       | handsome sedge          |
| <input type="checkbox"/> | S4 <i>Carex garberi</i> Fern.                       | Garber's sedge          |

<input type="checkbox"/>	<i>Carex gracillima</i> Schwein.	graceful sedge
<input type="checkbox"/>	<i>Carex granularis</i> Muhlenb. ex Willd.	limestone meadow sedge
<input type="checkbox"/>	S4S5 <i>Carex hirtifolia</i> Mackenzie	pubescent sedge
<input type="checkbox"/>	<i>Carex hystericina</i> Muhlenb. ex Willd.	porcupine sedge
<input type="checkbox"/>	<i>Carex interior</i> L.H. Bailey	inland sedge
<input type="checkbox"/>	<i>Carex intumescens</i> Rudge	bladder sedge
<input type="checkbox"/>	<i>Carex lacustris</i> Willd.	lake sedge
<input type="checkbox"/>	<i>Carex lasiocarpa</i> Ehrh.	woolly-fruit sedge
<input type="checkbox"/>	<i>Carex leptalea</i> Wahlenb.	bristle-stalked sedge
<input type="checkbox"/>	<i>Carex limosa</i> L.	mud sedge
<input type="checkbox"/>	<i>Carex lupulina</i> Muhlenb. ex Willd.	hop sedge
<input type="checkbox"/>	S4S5 <i>Carex lurida</i> Wahlenb.	sallow sedge
<input type="checkbox"/>	<i>Carex magellanica</i> Lam. [= <i>Carex paupercola</i> ]	boreal bog sedge
<input type="checkbox"/>	S4 <i>Carex merritt-fernaldii</i> Mack.	Fernald's sedge
<input type="checkbox"/>	S4S5 <i>Carex molesta</i> Mack. ex J. Bright	troublesome sedge
<input type="checkbox"/>	<i>Carex oligosperma</i> Michx.	few-seeded sedge
<input type="checkbox"/>	<i>Carex peckii</i> Howe	Peck's sedge
<input type="checkbox"/>	<i>Carex pedunculata</i> Muhlenb. ex Willd.	long-stalked sedge
<input type="checkbox"/>	<i>Carex pellita</i> Willd. [= <i>Carex lanuginosa</i> ]	woolly sedge
<input type="checkbox"/>	<i>Carex plantaginea</i> Lam.	plantain-leaved sedge
<input type="checkbox"/>	<i>Carex projecta</i> Mackenzie	necklace sedge
<input type="checkbox"/>	<i>Carex pseudocyperus</i> L.	cyperus-like sedge
<input type="checkbox"/>	<i>Carex retrorsa</i> Schwein.	retorse sedge
<input type="checkbox"/>	S4 <i>Carex richardsonii</i> R. Br.	Richardson's sedge
<input type="checkbox"/>	<i>Carex rosea</i> Schk. ex Willd. [= <i>Carex convoluta</i> ]	rosy sedge
<input type="checkbox"/>	S4 <i>Carex sartwellii</i> Dewey	Sartwell's sedge
<input type="checkbox"/>	<i>Carex scoparia</i> Schk. ex Willd.	pointed broom sedge
<input type="checkbox"/>	I <i>Carex spicata</i> Hudson	spiked sedge
<input type="checkbox"/>	<i>Carex sprengei</i> Dewey ex Sprengel	Sprengel's sedge
<input type="checkbox"/>	<i>Carex stipata</i> Muhlenb. ex Willd.	awl-fruited sedge
<input type="checkbox"/>	<i>Carex stricta</i> Lam.	tussock sedge
<input type="checkbox"/>	<i>Carex tenera</i> Dewey	tender sedge
<input type="checkbox"/>	<i>Carex tonsa</i> (Fern.) E.P. Bickn.	rough-fruited deep-green sedge
<input type="checkbox"/>	<i>Carex trisperma</i> Dewey	three-seeded sedge
<input type="checkbox"/>	<i>Carex tuckermanii</i> Dewey	Tuckerman's sedge
<input type="checkbox"/>	<i>Carex umbellata</i> Schk. ex Willd.	umbellate sedge
<input type="checkbox"/>	<i>Carex utriculata</i> Boott	northern beaked sedge
<input type="checkbox"/>	<i>Carex vesicaria</i> L.	inflated sedge
<input type="checkbox"/>	<i>Carex viridula</i> Michx.	greenish sedge
<input type="checkbox"/>	<i>Carex vulpinoidea</i> Michx.	fox sedge
<input type="checkbox"/>	<i>Eleocharis acicularis</i> (L.) Roemer & Schultes	needle spikerush
<input type="checkbox"/>	S4 <i>Eleocharis compressa</i> Sullivant	flat-stemmed spikerush
<input type="checkbox"/>	<i>Eleocharis elliptica</i> Kunth	elliptic spikerush
<input type="checkbox"/>	<i>Eleocharis erythropoda</i> Steudel	red-stemmed spikerush
<input type="checkbox"/>	S4 <i>Eleocharis intermedia</i> Schultes	matted spikerush

<input type="checkbox"/>	<i>Eleocharis obtusa</i> (Willd.) Schultes	blunt spikerush	
<input type="checkbox"/>	<i>Eleocharis palustris</i> (L.) Roemer & Schultes [= <i>Eleocharis smallii</i> ]	common spikerush	
<input type="checkbox"/>	<i>Eriophorum vaginatum</i> L.	tussock cottongrass	
<input type="checkbox"/>	<i>Eriophorum virginicum</i> L.	tawny cottongrass	
<input type="checkbox"/>	<i>Eriophorum viridicarinatum</i> (Engelm.) Fern.	green-keeled cottongrass	
<input type="checkbox"/>	<i>Schoenoplectus acutus</i> (Muhlenb. ex Bigelow) Á. Löve & D. Löve [= <i>Scirpus acutus</i> ]	hard-stemmed bulrush	
<input type="checkbox"/>	<i>Schoenoplectus tabernaemontani</i> (C.C. Gmelin) Palla [= <i>Scirpus validus</i> ]	soft-stemmed bulrush	
<input type="checkbox"/>	<i>Scirpus atrovirens</i> Willd.	dark-green bulrush	
<input type="checkbox"/>	<i>Scirpus cyperinus</i> (L.) Kunth	common woolly bulrush	
<input type="checkbox"/>	<i>Scirpus pendulus</i> Muhlenb. ex Willd.	hanging bulrush	
	<b>JUNACEAE - rush family</b>		<b>TOTAL: 12</b>
<input type="checkbox"/>	<i>Juncus alpinoarticulatus</i> Chaix [= <i>Juncus alpinus</i> var. <i>rariflorus</i> ]	alpine rush	
<input type="checkbox"/>	<i>Juncus articulatus</i> L.	jointed rush	
<input type="checkbox"/>	<i>Juncus balticus</i> Willd.	Baltic rush	
<input type="checkbox"/>	<i>Juncus brevicaudatus</i> (Engelm.) Fern.	short-tailed rush	
<input type="checkbox"/>	<i>Juncus canadensis</i> J. Gay ex Laharpe	Canada rush	
<input type="checkbox"/>	I <i>Juncus compressus</i> Jacq.	compressed rush	
<input type="checkbox"/>	<i>Juncus dudleyi</i> Wieg.	Dudley's rush	
<input type="checkbox"/>	<i>Juncus effusus</i> L.	soft rush	
<input type="checkbox"/>	<i>Juncus nodosus</i> L.	knotted rush	
<input type="checkbox"/>	S3 <i>Juncus secundus</i> P. Beauv. ex Poiret	one-sided rush	
<input type="checkbox"/>	<i>Juncus tenuis</i> Willd.	path rush	
<input type="checkbox"/>	<i>Juncus torreyi</i> Cov.	Torrey's rush	
	<b>POACEAE - grass family</b>		<b>TOTAL: 62</b>
<input type="checkbox"/>	I <i>Agrostis gigantea</i> Roth	redtop	
<input type="checkbox"/>	<i>Agrostis scabra</i> Willd.	rough bentgrass	
<input type="checkbox"/>	I <i>Agrostis stolonifera</i> L.	creeping bentgrass	
<input type="checkbox"/>	S4 <i>Alopecurus aequalis</i> Sobol.	short-awned foxtail	
<input type="checkbox"/>	I <i>Anthoxanthum odoratum</i> L.	large sweet vernalgrass	
<input type="checkbox"/>	I <i>Arrhenatherum elatius</i> (L.) P. Beauv. ex J. Presl & C. Presl	tall oatgrass	
<input type="checkbox"/>	S5? <i>Brachyelytrum aristosum</i> (Michaux) P. Beauv. ex Branner & Coville [= part of <i>Brachyelytrum erectum</i> ]	northern shorthusk	
<input type="checkbox"/>	<i>Bromus ciliatus</i> L.	fringed brome	
<input type="checkbox"/>	I <i>Bromus inermis</i> Leysser	smooth brome	
<input type="checkbox"/>	S4 <i>Bromus kalmii</i> A. Gray	Kalm's brome	
<input type="checkbox"/>	S4 <i>Bromus pubescens</i> Muhlenb. ex Willd.	hairy woodland brome	
<input type="checkbox"/>	<i>Calamagrostis canadensis</i> (Michaux) P. Beauv.	bluejoint reedgrass	
<input type="checkbox"/>	<i>Cinna latifolia</i> (Trevir. ex Göppinger) Griseb.	drooping woodreed	
<input type="checkbox"/>	I <i>Dactylis glomerata</i> L.	orchard grass	
<input type="checkbox"/>	<i>Danthonia spicata</i> (L.) P. Beauv. ex Roemer & Schultes	poverty oatgrass	

- |                          |   |                            |
|--------------------------|---|----------------------------|
| <input type="checkbox"/> | <i>Deschampsia cespitosa</i> (L.) P. Beauv.   | tufted hairgrass           |
| <input type="checkbox"/> | <i>Dichanthelium acuminatum</i> ssp. <i>acuminatum</i><br>(Swartz) Gould & C.A. Clark [= <i>Panicum acuminatum</i> ]                  | hairy panicgrass           |
| <input type="checkbox"/> | <i>Dichanthelium acuminatum</i> ssp. <i>implicatum</i><br>(Scribn.) Freckmann & Lelong [= <i>Panicum implicatum</i> ]                 | mat panicgrass             |
| <input type="checkbox"/> | <i>Dichanthelium boreale</i> (Nash) Freckmann<br>[= <i>Panicum boreale</i> ]  | northern panicgrass        |
| <input type="checkbox"/> | S4S5 <i>Dichanthelium linearifolium</i> (Scribn.) Gould<br>[= <i>Panicum linearifolium</i> ]  | linear-leaved panicgrass   |
| <input type="checkbox"/> | I <i>Echinochloa crus-galli</i> (L.) P. Beauv.  | large barnyard grass       |
| <input type="checkbox"/> | <i>Echinochloa muricata</i> (P. Beauv.) Fern.   | rough barnyard grass       |
| <input type="checkbox"/> | <i>Elymus hystrix</i> L. [= <i>Hystrix patula</i> ]   | bottlebrush grass          |
| <input type="checkbox"/> | I <i>Elymus repens</i> (L.) Gould [= <i>Agropyron repens</i> ]  | quackgrass                 |
| <input type="checkbox"/> | <i>Elymus trachycaulus</i> (Link) Gould ex Shinners<br>[= <i>Agropyron trachycaulum</i> ]   | slender wildrye            |
| <input type="checkbox"/> | <i>Elymus virginicus</i> L.   | Virginia wildrye           |
| <input type="checkbox"/> | <i>Festuca rubra</i> L.   | red fescue                 |
| <input type="checkbox"/> | S4 <i>Festuca saximontana</i> Rydberg   | Rocky Mountain fescue      |
| <input type="checkbox"/> | <i>Glyceria borealis</i> (Nash) Batch.  | boreal mannagrass          |
| <input type="checkbox"/> | <i>Glyceria canadensis</i> (Michx.) Trin.   | Canada mannagrass          |
| <input type="checkbox"/> | S4 <i>Glyceria septentrionalis</i> Hitchc.  | eastern mannagrass         |
| <input type="checkbox"/> | <i>Glyceria striata</i> (Lam.) Hitchc.  | ridged mannagrass          |
| <input type="checkbox"/> | <i>Leersia oryzoides</i> (L.) Swartz  | rice cutgrass              |
| <input type="checkbox"/> | I <i>Lolium pratense</i> (Hudson) Darbysh.<br>[= <i>Schedonorus pratensis</i> ; <i>Festuca pratensis</i> ]                            | meadow fescue              |
| <input type="checkbox"/> | S4S5 <i>Milium effusum</i> L.   | wood millet                |
| <input type="checkbox"/> | <i>Muhlenbergia glomerata</i> (Willd.) Trin.  | spike muhly                |
| <input type="checkbox"/> | <i>Muhlenbergia mexicana</i> (L.) Trin.   | Mexican muhly              |
| <input type="checkbox"/> | <i>Oryzopsis asperifolia</i> Michx.   | rough-leaved mountain rice |
| <input type="checkbox"/> | <i>Panicum capillare</i> L.   | common panicgrass          |
| <input type="checkbox"/> | S4 <i>Panicum flexile</i> (Gattinger) Scribner  | wiry panicgrass            |
| <input type="checkbox"/> | S4 <i>Panicum philadelphicum</i> Bernh. ex Trin.<br>[= <i>Panicum tuckermanii</i> ]   | Philadelphia panicgrass    |
| <input type="checkbox"/> | S4 <i>Panicum philadelphicum</i> ssp. <i>gattingeri</i><br>(Nash) Freckmann & Lelong [= <i>Panicum gattingeri</i> ]                   | Gattinger's panicgrass     |
| <input type="checkbox"/> | S4 <i>Panicum virgatum</i> L.   | old switch panicgrass      |
| <input type="checkbox"/> | S4 <i>Patis racemosa</i> (Smith) Romaschenko,<br>P.M. Peterson & Soreng [= <i>Oryzopsis racemosa</i> ; <i>Piptatherum racemosum</i> ] | black-seed ricegrass       |
| <input type="checkbox"/> | <i>Phalaris arundinacea</i> L.  | reed canary grass          |
| <input type="checkbox"/> | I <i>Phleum pratense</i> L.   | common timothy             |
| <input type="checkbox"/> | S4? <i>Phragmites australis</i> ssp. <i>americanus</i><br>Saltonstall, P.M. Peterson & Soreng   | American reed              |
| <input type="checkbox"/> | I <i>Phragmites australis</i> (Cavanilles) Trin.<br>ex Steudel ssp. <i>australis</i>  | common reed                |

<input type="checkbox"/>	I	<i>Poa annua</i> L.	annual bluegrass	
<input type="checkbox"/>	I	<i>Poa compressa</i> L.	Canada bluegrass	
<input type="checkbox"/>		<i>Poa palustris</i> L.	fowl bluegrass	
<input type="checkbox"/>		<i>Poa pratensis</i> L.	Kentucky bluegrass	
<input type="checkbox"/>	S4	<i>Poa saltuensis</i> Fern. & Wieg.	old pasture bluegrass	
<input type="checkbox"/>	I	<i>Puccinellia nuttalliana</i> (Schultes) Hitchc.	Nuttall's alkaligrass	
<input type="checkbox"/>		<i>Schizachne purpurascens</i> (Torrey) Swallen	purple false melic	
<input type="checkbox"/>	S4	<i>Schizachyrium scoparium</i> (Michx.) Nash [= <i>Andropogon scoparius</i> ]	little bluestem	
<input type="checkbox"/>	I	<i>Setaria viridis</i> (L.) P. Beauv.	green foxtail	
<input type="checkbox"/>	S4S5	<i>Sphenopholis intermedia</i> (Rydb.) Rydb.	slender wedgrass	
<input type="checkbox"/>	S3	<i>Sporobolus heterolepis</i> (A. Gray) A. Gray	prairie dropseed = [northern dropseed]	
<input type="checkbox"/>	S4	<i>Sporobolus neglectus</i> Nash	small dropseed	
<input type="checkbox"/>		<i>Sporobolus vaginiflorus</i> (Torrey ex A. Gray) Alph. Wood	sheathed dropseed	
<input type="checkbox"/>	S5?	<i>Zizania palustris</i> L.	northern wild rice	
<b>TYPHACEAE - cattail family</b>				<b>TOTAL: 6</b>
<input type="checkbox"/>		<i>Sparganium americanum</i> Nutt.	American burreed	
<input type="checkbox"/>	S4?	<i>Sparganium angustifolium</i> Michx.	narrow-leaved burreed	
<input type="checkbox"/>		<i>Sparganium eurycarpum</i> Engelm.	broad-fruited burreed	
<input type="checkbox"/>	I	<i>Typha xglauca</i> Godron	blue cattail	
<input type="checkbox"/>	I	<i>Typha angustifolia</i> L.	narrow-leaved cattail	
<input type="checkbox"/>		<i>Typha latifolia</i> L.	broad-leaved cattail	
<b>ORDER: <u>Commelinales</u></b>			<b>PONTEDERIACEAE - pickerel-weed family</b>	<b>TOTAL: 2</b>
<input type="checkbox"/>		<i>Heteranthera dubia</i> (Jacq.) MacMillan	water stargrass	
<input type="checkbox"/>		<i>Pontederia cordata</i> L.	pickerelweed	

## EUDICOTS

<b>ORDER: <u>Ceratophyllales</u></b>			<b>CERATOPHYLLACEAE - hornwort family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>		<i>Ceratophyllum demersum</i> L.	common hornwort	
<b>ORDER: <u>Ranunculales</u></b>			<b>BERBERIDACEAE - barberry family</b>	<b>TOTAL: 3</b>
<input type="checkbox"/>	I	<i>Berberis vulgaris</i> L.	common barberry	
<input type="checkbox"/>	S4?	<i>Caulophyllum giganteum</i> (Farw.) Loconte & W.H. Blackwell	giant blue cohosh	
<input type="checkbox"/>		<i>Podophyllum peltatum</i> L.	May-apple	
			<b>MENISPERMACEAE - moonseed family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>	S4	<i>Menispermum canadense</i> L.	Canada moonseed	
			<b>PAPAVERACEAE - poppy family</b>	<b>TOTAL: 3</b>
<input type="checkbox"/>		<i>Corydalis aurea</i> Willd.	golden corydalis	
<input type="checkbox"/>		<i>Dicentra canadensis</i> (Goldie) Walpers	squirrel-corn	
<input type="checkbox"/>		<i>Sanguinaria canadensis</i> L.	bloodroot	
			<b>RANUNCULACEAE - crowfoot family</b>	<b>TOTAL: 19</b>
<input type="checkbox"/>		<i>Actaea pachypoda</i> Elliott [= <i>Actaea alba</i> ]	white baneberry	
<input type="checkbox"/>		<i>Actaea rubra</i> (Aiton) Willd.	red baneberry	



<input type="checkbox"/>	<i>Anemone acutiloba</i> (de Candolle) G. Lawson [= <i>Hepatica acutiloba</i> ]	sharp-lobed hepatica	
<input type="checkbox"/>	<i>Anemone americana</i> (de Candolle) H. Hara [= <i>Hepatica americana</i> ; <i>Hepatica nobilis</i> var. <i>obtusata</i> ]	round-lobed hepatica	
<input type="checkbox"/>	S4 <i>Anemone cylindrica</i> A. Gray	long-headed anemone	
<input type="checkbox"/>	<i>Anemone virginiana</i> L.	tall anemone	
<input type="checkbox"/>	<i>Aquilegia canadensis</i> L.	red columbine	
<input type="checkbox"/>	<i>Caltha palustris</i> L.	yellow marsh marigold	
<input type="checkbox"/>	<i>Clematis virginiana</i> L.	Virginia clematis	
<input type="checkbox"/>	<i>Coptis trifolia</i> (L.) Salisb. [= <i>Coptis groenlandica</i> ]	Goldthread	
<input type="checkbox"/>	<i>Ranunculus abortivus</i> L.	kidney-leaved buttercup	
<input type="checkbox"/>	I <i>Ranunculus acris</i> L.	common buttercup	
<input type="checkbox"/>	<i>Ranunculus aquatilis</i> L. [= <i>Ranunculus longirostris</i> ]	thread-leaved water buttercup	
<input type="checkbox"/>	S4 <i>Ranunculus fascicularis</i> Muhlenb. ex Bigelow	early buttercup	
<input type="checkbox"/>	S4 <i>Ranunculus flabellaris</i> Raf.	yellow water buttercup	
<input type="checkbox"/>	<i>Ranunculus recurvatus</i> Poiret	hooked buttercup	
<input type="checkbox"/>	I <i>Ranunculus sceleratus</i> L. var. <i>sceleratus</i>	cursed buttercup	
<input type="checkbox"/>	<i>Thalictrum dioicum</i> L.	early meadow-rue	
<input type="checkbox"/>	<i>Thalictrum pubescens</i> Pursh	tall meadow-rue	
<b>ORDER: <u>Saxifragales</u></b>		<b>CRASSULACEAE - stonecrop family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>	I <i>Sedum acre</i> L.	mossy stonecrop	
		<b>GROSSULARIACEAE - currant family</b>	<b>TOTAL: 6</b>
<input type="checkbox"/>	<i>Ribes americanum</i> Miller	wild black currant	
<input type="checkbox"/>	<i>Ribes cynosbati</i> L.	eastern prickly gooseberry	
<input type="checkbox"/>	<i>Ribes glandulosum</i> Grauer	skunk currant	
<input type="checkbox"/>	<i>Ribes hirtellum</i> Michx.	swamp gooseberry	
<input type="checkbox"/>	<i>Ribes lacustre</i> (Pers.) Poiret	bristly black currant	
<input type="checkbox"/>	<i>Ribes triste</i> Pallas	swamp red currant	
		<b>HALORAGACEAE - water-milfoil family</b>	<b>TOTAL: 2</b>
<input type="checkbox"/>	I <i>Myriophyllum spicatum</i> L.	Eurasian water-milfoil	
<input type="checkbox"/>	S4 <i>Proserpinaca palustris</i> L.	marsh mermaidweed	
		<b>SAXIFRAGACEAE - saxifrage family</b>	<b>TOTAL: 4</b>
<input type="checkbox"/>	<i>Micranthes virginiensis</i> (Michx.) Small [= <i>Saxifraga virginiensis</i> ]	early saxifrage	
<input type="checkbox"/>	<i>Mitella diphylla</i> L.	two-leaved mitrewort	
<input type="checkbox"/>	<i>Mitella nuda</i> L.	naked mitrewort	
<input type="checkbox"/>	<i>Tiarella cordifolia</i> L.	heart-leaved foamflower	
<b>ORDER: <u>Vitales</u></b>		<b>VITACEAE - grape family</b>	<b>TOTAL: 2</b>
<input type="checkbox"/>	<i>Parthenocissus inserta</i> (A. Kerner) Fritsch	thicket creeper	
<input type="checkbox"/>	<i>Vitis riparia</i> Michx.	riverbank grape	
<b>ORDER: <u>Celastrales</u></b>		<b>CELASTRACEAE - staff-tree family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>	<i>Celastrus scandens</i> L.	climbing bittersweet	
<b>ORDER: <u>Oxidales</u></b>		<b>OXALIDACEAE - wood-sorrel family</b>	<b>TOTAL: 1</b>
<input type="checkbox"/>	S5 <i>Oxalis stricta</i> L.	European wood-sorrel	

**ORDER: Malpighiales****EUPHORBIACEAE - spurge family****TOTAL: 5**

- I *Euphorbia cyparissias* L. cypress spurge
- I *Euphorbia glyptosperma* Engelm. [= *Chamaesyce g.*] ridge-seed spurge
- I *Euphorbia maculata* L. [= *Chamaesyce maculata*] spotted spurge
- Euphorbia vermiculata* Raf. [= *Chamaesyce v.*] wormseed spurge
- I *Euphorbia virgata* Waldstein & Kitaibel Russian leafy spurge  
[= *Euphorbia esula*]

**HYPERICACEAE - St. John's wort family****TOTAL: 4**

- Hypericum ellipticum* Hooker pale St. John's-wort
- Hypericum fraseri* (Spach) Steudel [= *Triadenum f.*] Fraser's St. John's-wort
- I *Hypericum perforatum* L. common St. John's-wort
- Hypericum punctatum* Lam. spotted St. John's-wort

**SALICACEAE - willow family****TOTAL: 15**

- I *Populus alba* L. white poplar
- Populus balsamifera* L. balsam poplar
- Populus grandidentata* Michx. large-toothed aspen
- Populus tremuloides* Michx. trembling aspen
- I *Salix xfragilis* L. [= *Salix xrubens*] crack willow
- I *Salix alba* L. white willow
- Salix amygdaloides* Andersson peach-leaved willow
- Salix bebbiana* Sarg. Bebb's willow
- Salix candida* Flügge ex Willd. sage willow
- Salix discolor* Muhlenb. pussy willow
- Salix eriocephala* Michx. cottony willow
- Salix interior* Rowlee [= *Salix exigua ssp. interior*] sandbar willow
- Salix lucida* Muhlenb. shining willow
- Salix petiolaris* J.E. Smith meadow willow
- S4 *Salix serissima* (L.H. Bailey) Fern. autumn willow

**VIOLACEAE - violet family****TOTAL: 12**

- S5? *Viola adunca* Smith hooked violet
- S4S5 *Viola blanda* Willd. [= *Viola incognita*] sweet white violet
- Viola canadensis* L. Canada violet
- Viola cucullata* Aiton marsh blue violet
- Viola labradorica* Schrank [= *Viola conspersa*] Labrador violet [= dog violet]
- Viola macloskeyi* F.E. Lloyd small white violet
- Viola nephrophylla* Greene northern bog violet
- Viola pubescens* Aiton downy yellow violet
- Viola renifolia* A. Gray kidney-leaved violet
- Viola rostrata* Pursh long-spurred violet
- Viola selkirkii* Pursh ex Goldie great spurred violet
- Viola sororia* Willd. woolly blue violet

**ORDER: Fabales****FABACEAE - legume family****TOTAL: 17**

- Amphicarpaea bracteata* (L.) Fern. American hog peanut
- S4 *Astragalus canadensis* L. Canada milk-vetch
- S3 *Astragalus neglectus* (Torrey & A. Gray) E. Sheldon neglected [Cooper's] milk-vetch

<input type="checkbox"/>	S4	<i>Desmodium canadense</i> (L.) de Candolle	Canada tick-trefoil	
<input type="checkbox"/>	I	<i>Lotus corniculatus</i> L.	garden bird's-foot trefoil	
<input type="checkbox"/>	I	<i>Medicago lupulina</i> L.	black medick	
<input type="checkbox"/>	I	<i>Medicago sativa</i> L.	alfalfa	
<input type="checkbox"/>	I	<i>Melilotus albus</i> Medikus	white sweet-clover	
<input type="checkbox"/>	I	<i>Melilotus officinalis</i> (L.) Pallas	yellow sweet-clover	
<input type="checkbox"/>	I	<i>Robinia pseudoacacia</i> L.	black locust	
<input type="checkbox"/>	I	<i>Securigera varia</i> (L.) Lassen [= <i>Coronilla varia</i> ]	purple crown-vetch	
<input type="checkbox"/>	I	<i>Trifolium aureum</i> Pollich [= <i>Trifolium agrarium</i> ]	yellow clover	
<input type="checkbox"/>	I	<i>Trifolium hybridum</i> L.	alsike clover	
<input type="checkbox"/>	I	<i>Trifolium pratense</i> L.	red clover	
<input type="checkbox"/>	I	<i>Trifolium repens</i> L.	white clover	
<input type="checkbox"/>	I	<i>Vicia cracca</i> L.	tufted vetch	
<input type="checkbox"/>	I	<i>Vicia tetrasperma</i> (L.) Schreber	four-seed vetch	
<b>POLYGALACEAE - milkwort family</b>				<b>TOTAL: 2</b>
<input type="checkbox"/>	S4	<i>Polygala senega</i> L.	Seneca snakeroot	
<input type="checkbox"/>		<i>Polygaloides paucifolia</i> (Willd.) J.R. Abbott [= <i>Polygala paucifolia</i> ]	fringed milkwort	
<b>ORDER: Rosales</b>				
<b>CANNABACEAE - hemp family</b>				<b>TOTAL: 1</b>
<input type="checkbox"/>	S4	<i>Celtis occidentalis</i> L.	common hackberry	
<b>ELAEGNACEAE - oleaster family</b>				<b>TOTAL: 2</b>
<input type="checkbox"/>	I	<i>Elaeagnus angustifolia</i> L.	Russian olive	
<input type="checkbox"/>		<i>Shepherdia canadensis</i> (L.) Nuttall	soapberry = [buffaloberry]	
<b>RHAMNACEAE - buckthorn family</b>				<b>TOTAL: 5</b>
<input type="checkbox"/>	S4	<i>Ceanothus americanus</i> L.	New Jersey tea	
<input type="checkbox"/>	S4	<i>Ceanothus herbaceus</i> Raf.	prairie redroot = [narrow-leaved New Jersey Tea]	
<input type="checkbox"/>	I	<i>Frangula alnus</i> Miller [= <i>Rhamnus frangula</i> ]	glossy buckthorn	
<input type="checkbox"/>		<i>Rhamnus alnifolia</i> L'Héritier	alder-leaved buckthorn	
<input type="checkbox"/>	I	<i>Rhamnus cathartica</i> L.	European buckthorn	
<b>ROSACEAE - rose family</b>				<b>TOTAL: 44</b>
<input type="checkbox"/>		<i>Agrimonia gryposepala</i> Wallroth	hooked agrimony	
<input type="checkbox"/>		<i>Amelanchier arborea</i> (F. Michx.) Fern.	downy serviceberry	
<input type="checkbox"/>		<i>Amelanchier humilis</i> Wieg. [= <i>Amelanchier alnifolia</i> ]	low serviceberry	
<input type="checkbox"/>		<i>Amelanchier laevis</i> Wieg.	smooth serviceberry	
<input type="checkbox"/>		<i>Amelanchier sanguinea</i> (Pursh) de Candolle	round-leaved serviceberry	
<input type="checkbox"/>	S4	<i>Amelanchier spicata</i> (Lam.) K. Koch [= <i>Amelanchier stolonifera</i> ]	running serviceberry	
<input type="checkbox"/>		<i>Aronia melanocarpa</i> (Michx.) Elliott	black chokeberry	
<input type="checkbox"/>		<i>Crataegus chrysoarpa</i> Ashe	fireberry hawthorn	
<input type="checkbox"/>	S4	<i>Crataegus dodgei</i> Ashe	Dodge's hawthorn	
<input type="checkbox"/>		<i>Crataegus macracantha</i> Loddiges ex Loudon	large-thorned hawthorn	
<input type="checkbox"/>		<i>Crataegus punctata</i> Jacq.	dotted hawthorn	
<input type="checkbox"/>		<i>Crataegus succulenta</i> Schrader ex Link	fleshy hawthorn	
<input type="checkbox"/>		<i>Dasiphora fruticosa</i> (L.) Rydb. [= <i>Potentilla fruticosa</i> ssp. <i>floribunda</i> ]	shrubby cinquefoil	

- S4 *Drymocallis arguta* (Pursh) Rydb. [= *Potentilla arguta*] tall cinquefoil
- Fragaria vesca* L. American woodland strawberry
- Fragaria virginiana* Miller wild strawberry
- Geum aleppicum* Jacq. yellow avens
- Geum canadense* Jacq. white avens
- Geum fragarioides* (Michx.) Smedmark barren strawberry  
[= *Waldsteinia fragarioides*]
- Geum rivale* L. water avens
- S4 *Geum triflorum* Pursh prairie smoke [= three-flowered avens]
- I *Malus pumila* Miller common apple
- Potentilla anserina* L. common silverweed
- I *Potentilla argentea* L. silvery cinquefoil
- Potentilla norvegica* L. rough cinquefoil
- I *Potentilla recta* L. sulphur cinquefoil
- Potentilla simplex* Michx. old field cinquefoil
- Prunus pensylvanica* L. f. pin cherry
- Prunus serotina* Ehrhart black cherry
- Prunus virginiana* L. chokecherry
- Rosa acicularis* Lindley prickly rose
- Rosa blanda* Aiton smooth rose
- I *Rosa multiflora* Thunb. multiflora rose
- Rosa palustris* Marshall swamp rose
- I *Rosa rugosa* Thunberg rugosa rose
- Rubus allegheniensis* Porter Alleghany blackberry
- S4 *Rubus flagellaris* Willd. northern dewberry
- Rubus idaeus* ssp. *strigosus* (Michx.) Focke North American red raspberry
- Rubus occidentalis* L. black raspberry
- Rubus pubescens* Raf. dwarf raspberry
- S4 *Rubus repens* (L.) Kuntze [= *Dalibarda repens*] dewdrop
- Sorbus americana* Marshall American mountain-ash
- I *Sorbus aucuparia* L. European mountain-ash
- Spiraea alba* Du Roi white meadowsweet

**ULMACEAE - elm family**

**TOTAL: 3**

- Ulmus americana* L. white elm
- Ulmus rubra* Muhlenb. slippery elm
- S4 *Ulmus thomasi* Sargent rock elm

**URTICACEAE - nettle family**

**TOTAL: 5**

- Boehmeria cylindrica* (L.) Swartz small-spike false nettle
- Laportea canadensis* (L.) Weddell Canada wood nettle
- S4 *Pilea fontana* (Lunell) Rydb. lesser clearweed
- Pilea pumila* (L.) A. Gray dwarf clearweed
- Urtica dioica* ssp. *gracilis* (Aiton) Selander slender stinging nettle

**ORDER: Fagales**

**BETULACEAE - birch family**

**TOTAL: 8**

- Alnus incana* (Du Roi) R.T. Clausen speckled alder
- \* *Betula xsandbergii* Britton Sandberg's birch

<input type="checkbox"/>	<i>Betula alleghaniensis</i> Britton [= <i>Betula lutea</i> ]	yellow birch	
<input type="checkbox"/>	<i>Betula papyrifera</i> Marshall	paper birch	
<input type="checkbox"/>	<i>Betula pumila</i> L. [= <i>Betula glandulifera</i> ]	bog birch	
<input type="checkbox"/>	<i>Carpinus caroliniana</i> Walter	blue-beech	
<input type="checkbox"/>	<i>Corylus cornuta</i> Marshall	beaked hazelnut	
<input type="checkbox"/>	<i>Ostrya virginiana</i> (Miller) K. Koch	eastern hop-hornbeam	
	<b>FAGACEAE - beech family</b>		<b>TOTAL: 3</b>
<input type="checkbox"/>	S4 <i>Fagus grandifolia</i> Ehrhart	American beech	
<input type="checkbox"/>	<i>Quercus macrocarpa</i> Michx.	bur oak	
<input type="checkbox"/>	<i>Quercus rubra</i> L.	northern red oak	
	<b>JUGLANDACEAE - walnut family</b>		<b>TOTAL: 2</b>
<input type="checkbox"/>	S2? <i>Juglans cinerea</i> L.	butternut	
<input type="checkbox"/>	S4 <i>Juglans nigra</i> L.	black walnut	
	<b>MYRICACEAE - wax-myrtle family</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>	<i>Myrica gale</i> L.	sweet gale	
<b>ORDER: <u>Geraniales</u></b>	<b>GERANIACEAE - geranium family</b>		<b>TOTAL: 4</b>
<input type="checkbox"/>	S4 <i>Geranium bicknellii</i> Britton	Bicknell's geranium	
<input type="checkbox"/>	S4 <i>Geranium carolinianum</i> L.	Carolina geranium	
<input type="checkbox"/>	I <i>Geranium molle</i> L.	dove's-foot geranium	
<input type="checkbox"/>	<i>Geranium robertianum</i> L.	herb-Robert	
<b>ORDER: <u>Myrtales</u></b>	<b>LYTHRACEAE - loosestrife family</b>		<b>TOTAL: 2</b>
<input type="checkbox"/>	<i>Decodon verticillatus</i> (L.) Elliott	swamp loosestrife	
<input type="checkbox"/>	I <i>Lythrum salicaria</i> L.	purple loosestrife	
	<b>ONAGRACEAE - evening-primrose family</b>		<b>TOTAL: 12</b>
<input type="checkbox"/>	<i>Chamerion angustifolium</i> (L.) Holub [= <i>Epilobium angustifolium</i> ]	fireweed	
<input type="checkbox"/>	<i>Circaea alpina</i> L.	small enchanter's nightshade	
<input type="checkbox"/>	<i>Circaea canadensis</i> (L.) Hill [= <i>Circaea lutetiana</i> ; <i>Circaea quadrasulcata</i> ]	Canada enchanter's nightshade	
<input type="checkbox"/>	<i>Epilobium ciliatum</i> Raf.	northern willowherb	
<input type="checkbox"/>	<i>Epilobium coloratum</i> Biehler	purple-veined willowherb	
<input type="checkbox"/>	I <i>Epilobium hirsutum</i> L.	hairy willowherb	
<input type="checkbox"/>	<i>Epilobium leptophyllum</i> Raf.	bog willowherb	
<input type="checkbox"/>	I <i>Epilobium parviflorum</i> Schreber	small-flowered willowherb	
<input type="checkbox"/>	<i>Ludwigia palustris</i> (L.) Elliott	marsh seedbox	
<input type="checkbox"/>	<i>Oenothera biennis</i> L.	common evening primrose	
<input type="checkbox"/>	<i>Oenothera oakesiana</i> (A. Gray) J.W. Robbins ex S. Watson	Oakes' evening primrose	
<input type="checkbox"/>	<i>Oenothera perennis</i> L.	perennial evening primrose	
<b>ORDER: <u>Sapindales</u></b>	<b>ANACARDIACEAE - cashew family</b>		<b>TOTAL: 4</b>
<input type="checkbox"/>	S4 <i>Rhus aromatica</i> Aiton	fragrant sumac	
<input type="checkbox"/>	<i>Rhus glabra</i> L.	smooth sumac	
<input type="checkbox"/>	<i>Rhus typhina</i> L.	staghorn sumac	
<input type="checkbox"/>	<i>Toxicodendron radicans</i> var. <i>rydbergii</i> (Small ex Rydberg) Erskine [= <i>Rhus radicans</i> ssp. <i>rydbergii</i> ]	western poison ivy	



	<b>RUTACEAE - rue family</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>	<i>Zanthoxylum americanum</i> P. Miller	common prickly-ash	
	<b>SAPINDACEAE - soapberry family</b>		<b>TOTAL: 7</b>
<input type="checkbox"/>	* <i>Acer xfreemanii</i> E. Murray	swamp Maple	
<input type="checkbox"/>	<i>Acer negundo</i> L.	Manitoba maple	
<input type="checkbox"/>	S4 <i>Acer pensylvanicum</i> L.	striped maple	
<input type="checkbox"/>	<i>Acer rubrum</i> L.	red maple	
<input type="checkbox"/>	<i>Acer saccharinum</i> Linnaeus	silver maple	
<input type="checkbox"/>	<i>Acer saccharum</i> Marshall	sugar maple	
<input type="checkbox"/>	<i>Acer spicatum</i> Lam.	mountain maple	
<b>ORDER: <u>Malvales</u></b>	<b>MALVACEAE - mallow family</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>	<i>Tilia americana</i> L.	basswood	
	<b>THYMELAEACEAE - mezereum family</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>	S4 <i>Dirca palustris</i> L.	eastern leatherwood	
<b>ORDER: <u>Brassicales</u></b>	<b>BRASSICACEAE - mustard family</b>		<b>TOTAL: 19</b>
<input type="checkbox"/>	I <i>Alyssum alyssoides</i> (L.) L.	small alyssum	
<input type="checkbox"/>	S4 <i>Arabidopsis lyrata</i> (L.) O'Kane & Al-Shehbaz [= <i>Arabis lyrata</i> ]	lyre-leaved rockcress	
<input type="checkbox"/>	<i>Arabis pycnocarpa</i> M. Hopkins [= <i>Arabis hirsuta</i> var. <i>pycnocarpa</i> ]	cream-flowered rockcress [=hairy rockcress]	
<input type="checkbox"/>	<i>Boechera grahamii</i> (Lehmann) Windham & Al-Shehbaz [= <i>Arabis divaricarpa</i> ; <i>Boechera divaricarpa</i> ]	Graham's rockcress	
<input type="checkbox"/>	I <i>Capsella bursa-pastoris</i> (L.) Medikus	common shepherd's purse	
<input type="checkbox"/>	<i>Cardamine concatenata</i> (Michx.) O. Schwarz [= <i>Dentaria concatenata</i> ]	cut-leaved toothwort	
<input type="checkbox"/>	<i>Cardamine diphylla</i> (Michx.) Alph. Wood [= <i>Dentaria diphylla</i> ]	two-leaved toothwort	
<input type="checkbox"/>	S4 <i>Cardamine parviflora</i> L.	small-flowered bittercress	
<input type="checkbox"/>	<i>Cardamine pennsylvanica</i> Muhlenb. ex Willd.	Pennsylvania bittercress	
<input type="checkbox"/>	<i>Cardamine pratensis</i> L.	meadow bittercress	
<input type="checkbox"/>	I <i>Draba verna</i> L. [= <i>Erophila verna</i> ]	spring draba	
<input type="checkbox"/>	I <i>Erysimum cheiranthoides</i> L.	wormseed wallflower	
<input type="checkbox"/>	I <i>Hesperis matronalis</i> L.	dame's rocket	
<input type="checkbox"/>	I <i>Lepidium campestre</i> (L.) W.T. Aiton	field peppergrass	
<input type="checkbox"/>	I <i>Lepidium densiflorum</i> Schrader	common peppergrass	
<input type="checkbox"/>	<i>Lepidium virginicum</i> L.	poor-man's peppergrass	
<input type="checkbox"/>	I <i>Nasturtium officinale</i> R. Br.	watercress	
<input type="checkbox"/>	<i>Rorippa palustris</i> (L.) Besser	marsh yellowcress	
<input type="checkbox"/>	<i>Turritis glabra</i> L. [= <i>Arabis glabra</i> ]	tower mustard	
<b>ORDER: <u>Santalales</u></b>	<b>SANTALACEAE - sandalwood family</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>	<i>Comandra umbellata</i> (L.) Nuttall	bastard toadflax	
<b>ORDER: <u>Caryophyllales</u></b>	<b>AMARANTHACEAE - amaranth famil</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>	I <i>Amaranthus retroflexus</i> L.	redroot amaranth	
	<b>CARYOPHYLLACEAE - pink family</b>		<b>TOTAL: 12</b>
<input type="checkbox"/>	I <i>Arenaria serpyllifolia</i> L.	thyme-leaved sandwort	
<input type="checkbox"/>	S4 <i>Cerastium arvense</i> ssp. <i>strictum</i> Gaudin	matted field chickweed	

<input type="checkbox"/>	I	<i>Cerastium fontanum</i> Baumg. [= <i>Cerastium vulgatum</i> ]	common mouse-ear chickweed	
<input type="checkbox"/>	S4	<i>Cerastium nutans</i> Raf.	nodding chickweed	
<input type="checkbox"/>	I	<i>Dianthus armeria</i> L.	Deptford pink	
<input type="checkbox"/>		<i>Sabulina michauxii</i> (Fenzl) Dillenberger & Kadereit [= <i>Minuartia michauxii</i> ]	Michaux's [rock] stitchwort	
<input type="checkbox"/>	I	<i>Saponaria officinalis</i> L.	bouncing-bet	
<input type="checkbox"/>		<i>Silene antirrhina</i> L.	sleepy catchfly	
<input type="checkbox"/>	I	<i>Silene latifolia</i> Poiret	white campion	
<input type="checkbox"/>	I	<i>Silene vulgaris</i> (Moench) Garcke [= <i>Silene cucubalus</i> ]	bladder campion	
<input type="checkbox"/>		<i>Stellaria longifolia</i> Muhlenb. ex Willd.	long-leaved starwort	
<input type="checkbox"/>	I	<i>Stellaria media</i> (L.) Villars	common chickweed	
		<b>MONTIACEAE - water chickweed family</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>		<i>Claytonia caroliniana</i> Michx.	Carolina spring beauty	
		<b>POLYGONACEAE - buckwheat family</b>		<b>TOTAL: 12</b>
<input type="checkbox"/>	I	<i>Fallopia convolvulus</i> (L.) À. Löve [= <i>Polygonum convolvulus</i> ]	Eurasian black bindweed	
<input type="checkbox"/>		<i>Persicaria amphibia</i> (L.) Delarb [= <i>Polygonum amphibium</i> ]	water smartweed	
<input type="checkbox"/>		<i>Persicaria hydropiperoides</i> (Michx.) Small [= <i>Polygonum hydropiperoides</i> ssp. <i>hydropiperoides</i> ]	false waterpepper	
<input type="checkbox"/>		<i>Persicaria lapathifolia</i> (L.) Delarbre [= <i>Polygonum lapathifolium</i> ]	pale smartweed	
<input type="checkbox"/>	I	<i>Persicaria maculosa</i> Gray [= <i>Polygonum persicaria</i> ]	spotted lady's-thumb	
<input type="checkbox"/>		<i>Persicaria punctata</i> (Elliott) Small [= <i>Polygonum punctatum</i> ]	dotted smartweed	
<input type="checkbox"/>	S4?	<i>Polygonum aviculare</i> L.	prostrate knotweed	
<input type="checkbox"/>	S4	<i>Polygonum douglasii</i> Greene	Douglas' knotweed	
<input type="checkbox"/>	I	<i>Reynoutria japonica</i> Houttuyn [= <i>Fallopia japonica</i> ; <i>Polygonum japonicum</i> ]	Japanese knotweed	
<input type="checkbox"/>	I	<i>Rumex acetosella</i> L.	sheep sorrel	
<input type="checkbox"/>	S4S5	<i>Rumex britannica</i> L. [= <i>Rumex orbiculatus</i> ]	greater water dock	
<input type="checkbox"/>	I	<i>Rumex crispus</i> L.	curled dock	
		<b>PORTULACACEAE - purslane family</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>	I	<i>Portulaca oleracea</i> L.	common purslane	
		<b>CORNACEAE - dogwood family</b>		<b>TOTAL: 6</b>
<input type="checkbox"/>		<i>Cornus alternifolia</i> L. f.	alternate-leaved dogwood	
<input type="checkbox"/>		<i>Cornus canadensis</i> L.	bunchberry	
<input type="checkbox"/>		<i>Cornus obliqua</i> Raf. [= <i>Cornus amomum</i> ; <i>Cornus amomum</i> ssp. <i>obliqua</i> ]	silky dogwood	
<input type="checkbox"/>		<i>Cornus racemosa</i> Lam. [= <i>Cornus foemina</i> ssp. <i>racemosa</i> ]	grey dogwood	
<input type="checkbox"/>		<i>Cornus rugosa</i> Lam.	round-leaved dogwood	
<input type="checkbox"/>		<i>Cornus stolonifera</i> Michx.	red-osier dogwood	
		<b>BALSAMINACEAE - touch-me-not family</b>		<b>TOTAL: 2</b>
<input type="checkbox"/>		<i>Impatiens capensis</i> Meerb.	spotted jewelweed	
<input type="checkbox"/>	I	<i>Impatiens glandulifera</i> Royle	purple jewelweed	

**ERICACEAE - heath family****TOTAL: 13**

- Andromeda polifolia* L. bog rosemary
- Arctostaphylos uva-ursi* (L.) Sprengel common bearberry
- Chamaedaphne calyculata* (L.) Moench leatherleaf
- Gaultheria hispidula* (L.) Muhlenb. ex Bigelow creeping snowberry
- Gaultheria procumbens* L. eastern teaberry
- S4 *Hypopitys monotropa* Crantz [= *Monotropa hypopitys*] pinesap
- Kalmia angustifolia* L. sheep laurel
- Monotropa uniflora* L. Indian pipe
- Pyrola asarifolia* Michx. pink pyrola
- Pyrola elliptica* Nutt. shinleaf
- Rhododendron groenlandicum* (Oeder) Kron & Judd common Labrador tea  
[= *Ledum groenlandicum*]
- Vaccinium angustifolium* Aiton early lowbush blueberry
- Vaccinium myrtilloides* Michx. velvet-leaved blueberry

**POLEMONIACEAE - Phlox family****TOTAL: 1**

- S4 *Phlox divaricata* L. wild blue phlox

**PRIMULACEAE - primrose family****TOTAL: 5**

- Lysimachia borealis* (Raf.) U. Manns & Anderberg northern starflower  
[= *Trientalis borealis*]
- Lysimachia ciliata* L. fringed yellow loosestrife
- I *Lysimachia nummularia* L. creeping yellow loosestrife
- Lysimachia terrestris* (L.) Britton, Sterns & Pogg. swamp yellow loosestrife
- Lysimachia thysiflora* L. tufted yellow loosestrife

**ORDER: Gentianales****APOCYNACEAE - dogbane family****TOTAL: 5**

- Apocynum androsaemifolium* L. spreading dogbane
- Apocynum cannabinum* L. hemp dogbane
- Asclepias incarnata* L. swamp milkweed
- Asclepias syriaca* L. common milkweed
- I *Cynanchum rossicum* Kleopow European swallowwort

**GENTIANACEAE - gentian family****TOTAL: 2**

- S4 *Gentiana andrewsii* Griseb. Andrews' bottle gentian
- Gentianopsis crinita* (Froelich) Ma [= *Gentiana crinita*] greater fringed gentian

**RUBIACEAE - bedstraw family****TOTAL: 15**

- Cephalanthus occidentalis* L. common buttonbush
- Galium aparine* L. common bedstraw
- Galium asprellum* Michx. rough bedstraw
- S2S3 *Galium brevipes* Fern. & Wieg. limestone swamp bedstraw
- Galium circaezans* Michx. licorice bedstraw
- Galium labradoricum* (Wieg.) Wieg. Labrador bedstraw
- I *Galium mollugo* L. [= *Galium album*] smooth bedstraw
- Galium palustre* L. common marsh bedstraw
- I *Galium sylvaticum* L. wood bedstraw
- Galium tinctorium* L. [= *Galium trifidum* var. *tinctorium*] dyer's bedstraw
- Galium trifidum* L. three-petalled bedstraw

<input type="checkbox"/>	<i>Galium triflorum</i> Michx.	three-flowered bedstraw	
<input type="checkbox"/> I	<i>Galium verum</i> L.	yellow bedstraw	
<input type="checkbox"/> S4	<i>Houstonia longifolia</i> Gaertner [= <i>Hedyotis longifolia</i> ; <i>Houstonia canadensis</i> ]	long-leaved bluets	
<input type="checkbox"/>	<i>Mitchella repens</i> L.	partridgeberry	
<b>ORDER:</b>	<b><u>Solanales</u></b>	<b>CONVOLVULACEAE - bindweed family</b>	<b>TOTAL: 4</b>
<input type="checkbox"/>	<i>Calystegia sepium</i> (L.) R. Br.	hedge false bindweed	
<input type="checkbox"/> S4S5	<i>Calystegia spithamea</i> (L.) Pursh	low false bindweed	
<input type="checkbox"/> I	<i>Convolvulus arvensis</i> L.	field bindweed	
<input type="checkbox"/>	<i>Cuscuta gronovii</i> Willd. ex Roemer & Schults	swamp dodder	
		<b>SOLANACEAE - potato family</b>	<b>TOTAL: 3</b>
<input type="checkbox"/> S4	<i>Physalis heterophylla</i> Nees	clammy ground-cherry	
<input type="checkbox"/> I	<i>Solanum dulcamara</i> L.	bittersweet nightshade	
<input type="checkbox"/>	<i>Solanum ptychanthum</i> Dunal ex de Candolle	eastern black nightshade	
<b>ORDER:</b>	<b><u>Boraginales</u></b>	<b>BORAGINACEAE - borage family</b>	<b>TOTAL: 6</b>
<input type="checkbox"/> I	<i>Cynoglossum officinale</i> L.	common hound's-tongue	
<input type="checkbox"/> I	<i>Echium vulgare</i> L.	common viper's bugloss	
<input type="checkbox"/>	<i>Hackelia virginiana</i> (L.) I.M. Johnston	Virginia stickseed	
<input type="checkbox"/>	<i>Hydrophyllum virginianum</i> L.	Virginia waterleaf	
<input type="checkbox"/> I	<i>Lithospermum officinale</i> L.	European gromwell	
<input type="checkbox"/>	<i>Myosotis laxa</i> Lehm.	small forget-me-not	
<b>ORDER:</b>	<b><u>Lamiales</u></b>	<b>LAMIACEAE - mint family</b>	<b>TOTAL: 20</b>
<input type="checkbox"/> I	<i>Clinopodium acinos</i> (L.) Kuntze [= <i>Acinos arvensis</i> ]	basil thyme	
<input type="checkbox"/> S4	<i>Clinopodium arkansanum</i> (Nutt.) House [= <i>Calamintha arkansana</i> ]	low calamint = [wild calamint]	
<input type="checkbox"/>	<i>Clinopodium vulgare</i> L. [= <i>Satureja vulgaris</i> ]	wild basil	
<input type="checkbox"/> S4	<i>Dracocephalum parviflorum</i> Nuttall	American dragonhead	
<input type="checkbox"/> I	<i>Galeopsis tetrahit</i> L.	common hemp-nettle	
<input type="checkbox"/> I	<i>Glechoma hederacea</i> L.	ground-ivy	
<input type="checkbox"/> S4	<i>Hedeoma hispida</i> Pursh	rough false pennyroyal	
<input type="checkbox"/> I	<i>Leonurus cardiaca</i> L.	common motherwort	
<input type="checkbox"/>	<i>Lycopus americanus</i> Muhlenb.	American water-horehound	
<input type="checkbox"/>	<i>Lycopus uniflorus</i> Michx.	northern water-horehound	
<input type="checkbox"/> I	<i>Mentha x piperita</i> L.	peppermint	
<input type="checkbox"/>	<i>Mentha canadensis</i> L. [= <i>Mentha arvensis</i> ssp. <i>borealis</i> ]	Canada mint	
<input type="checkbox"/>	<i>Monarda fistulosa</i> L.	wild bergamot	
<input type="checkbox"/> I	<i>Nepeta cataria</i> L.	catnip	
<input type="checkbox"/> I	<i>Origanum vulgare</i> L.	wild marjoram	
<input type="checkbox"/>	<i>Prunella vulgaris</i> ssp. <i>lanceolata</i> (W.P.C. Barton) Piper & Beattie	lance-leaved self-heal	
<input type="checkbox"/>	<i>Scutellaria galericulata</i> L.	marsh skullcap	
<input type="checkbox"/>	<i>Scutellaria lateriflora</i> L.	mad-dog skullcap	
<input type="checkbox"/> S4	<i>Scutellaria parvula</i> Michx.	small skullcap	
<input type="checkbox"/> S4	<i>Trichostema brachiatum</i> L. [= <i>Isanthus brachiatus</i> ]	fluxweed [= false pennyroyal]	

<b>LENTIBULARIACEAE - bladderwort family</b>		<b>TOTAL: 3</b>
<input type="checkbox"/>	<i>Utricularia intermedia</i> Hayne	flat-leaved bladderwort
<input type="checkbox"/>	<i>Utricularia minor</i> L.	lesser bladderwort
<input type="checkbox"/>	<i>Utricularia vulgaris</i> L.	common bladderwort
<b>OLEACEAE - olive family</b>		<b>TOTAL: 4</b>
<input type="checkbox"/>	S4 <i>Fraxinus americana</i> L.	white ash
<input type="checkbox"/>	S4 <i>Fraxinus nigra</i> Marshall	black ash
<input type="checkbox"/>	S4 <i>Fraxinus pennsylvanica</i> Marshall	red ash/green ash
<input type="checkbox"/>	I <i>Syringa vulgaris</i> L.	common lilac
<b>OROBANCHACEAE - broomrape family</b>		<b>TOTAL: 8</b>
<input type="checkbox"/>	S4S5 <i>Agalinis purpurea</i> var. <i>parviflora</i> (Bentham) B. Boivin [= <i>Agalinis paupercula</i> var. <i>paupercula</i> ]	small-flowered agalinis
<input type="checkbox"/>	S4S5 <i>Agalinis tenuifolia</i> (Vahl) Raf. [= <i>Agalinis tenuifolia</i> var. <i>parviflora</i> ]	slender-leaved false foxglove
<input type="checkbox"/>	S4S5 <i>Castilleja coccinea</i> (L.) Sprengel	scarlet [Indian] paintbrush
<input type="checkbox"/>	<i>Epifagus virginiana</i> (L.) W.P.C. Barton	beechdrops
<input type="checkbox"/>	<i>Melampyrum lineare</i> Desr.	American cow-wheat
<input type="checkbox"/>	I <i>Odontites vulgaris</i> Moench [= <i>Odontites vernus</i> ]	red bartsia
<input type="checkbox"/>	S4 <i>Orobanche uniflora</i> L.	one-flowered broomrape
<input type="checkbox"/>	<i>Pedicularis canadensis</i> L.	Canada lousewort
<b>PHRYMACEAE - lopseed family</b>		<b>TOTAL: 2</b>
<input type="checkbox"/>	<i>Mimulus ringens</i> L.	square-stemmed monkeyflower
<input type="checkbox"/>	S4S5 <i>Phryma leptostachya</i> L.	lopseed
<b>PLANTAGINACEAE - plantain family</b>		<b>TOTAL: 16</b>
<input type="checkbox"/>	<i>Chelone glabra</i> L.	white turtlehead
<input type="checkbox"/>	S2 <i>Gratiola neglecta</i> Torrey <sup>a</sup>	clammy hedge-hyssop
<input type="checkbox"/>	I <i>Penstemon digitalis</i> Nutt. ex Sims	foxglove beardtongue
<input type="checkbox"/>	S4 <i>Penstemon hirsutus</i> (L.) Willd.	hairy beardtongue
<input type="checkbox"/>	I <i>Plantago lanceolata</i> L.	English plantain
<input type="checkbox"/>	I <i>Plantago major</i> L.	common plantain
<input type="checkbox"/>	I <i>Plantago media</i> L.	hoary plantain
<input type="checkbox"/>	<i>Plantago rugelii</i> Decaisne	Rugel's plantain
<input type="checkbox"/>	I <i>Veronica anagallis-aquatica</i> L.	water speedwell
<input type="checkbox"/>	I <i>Veronica arvensis</i> L.	corn speedwell
<input type="checkbox"/>	I <i>Veronica longifolia</i> L.	long-leaved speedwell
<input type="checkbox"/>	I <i>Veronica officinalis</i> L.	common speedwell
<input type="checkbox"/>	<i>Veronica peregrina</i> L.	purslane speedwell
<input type="checkbox"/>	S4 <i>Veronica peregrina</i> ssp. <i>Xalapensis</i> (Kunth) Pennell	glandular purslane speedwell
<input type="checkbox"/>	<i>Veronica scutellata</i> L.	marsh speedwell
<input type="checkbox"/>	SU <i>Veronica serpyllifolia</i> L.	thyme-leaved speedwell
<b>SCROPHULARIACEAE - figwort family</b>		<b>TOTAL: 1</b>
<input type="checkbox"/>	I <i>Verbascum thapsus</i> L.	common mullein

<sup>a</sup> *G. quartermaniae* D.Estes (limestone hedge-hyssop) is possible based on habitat. Specimen remains to be confirmed.



**VERBENACEAE - vervain family****TOTAL: 4**

- Verbena hastata* L. blue vervain
- S4 *Verbena simplex* Lehmann narrow-leaved vervain
- S4 *Verbena stricta* Ventenat hoary vervain
- Verbena urticifolia* L. white vervain

**ORDER: Aquifoliales****AQUIFOLIACEAE - holly family****TOTAL: 1**

- Ilex verticillata* (L.) A. Gray common winterberry

**ORDER: Asterales****ASTERACEAE - aster family****TOTAL: 74**

- Achillea borealis* Bongard [= *Achillea lanulosa*] woolly yarrow
- Ambrosia artemisiifolia* L. common ragweed
- Anaphalis margaritacea* (L.) Bentham & Hooker f. pearly everlasting
- Antennaria howellii* Greene Howell's pussytoes
- Antennaria neglecta* Greene field pussytoes
- I *Arctium minus* (Hill) Bernh. common burdock
- Bidens beckii* Torrey ex Sprengel water beggarticks  
[= *Megalodonta beckii*]
- Bidens cernua* L. nodding beggarticks
- S4? *Bidens connata* Muhlenb. ex Willd. purple-stemmed beggarticks
- S4 *Bidens discoidea* (Torrey & A. Gray) Britton small beggarticks
- Bidens frondosa* L. devil's beggarticks
- Bidens tripartita* L. [= *Bidens comosa*] three-parted beggarticks
- I *Cichorium intybus* L. wild chicory
- I *Cirsium arvense* (L.) Scopoli Canada thistle
- I *Cirsium vulgare* (Savi) Tenore bull thistle  
[= *Cirsium lanceolatum*]
- Doellingeria umbellata* (Miller) Nees flat-top white aster  
[= *Aster umbellatus* var. *umbellatus*]
- Erigeron annuus* (L.) Persoon annual fleabane
- Erigeron canadensis* L. [= *Conyza canadensis*] Canada horseweed
- Erigeron philadelphicus* L. Philadelphia fleabane
- Erigeron strigosus* Muhlenb. ex Willd. rough fleabane
- Eupatorium perfoliatum* L. common boneset
- Eurybia macrophylla* (L.) Cassini [= *Aster macrophyllus*] large-leaved aster
- Euthamia graminifolia* (L.) Nutt. grass-leaved goldenrod  
[= *Solidago graminifolia*]
- Eutrochium maculatum* (L.) E.E. Lamont spotted Joe Pye weed  
[= *Eupatorium maculatum*]
- Helianthus divaricatus* L. woodland sunflower
- S4 *Hieracium scabrum* Michx. rough hawkweed
- S4S5 *Hieracium umbellatum* L. umbellate hawkweed  
[= *Hieracium kalmii*; *Hieracium canadense*]
- Lactuca biennis* (Moench) Fernald tall blue lettuce
- Lactuca canadensis* L. Canada lettuce
- I *Leucanthemum vulgare* Lam. oxeye daisy  
[= *Chrysanthemum leucanthemum*]

<input type="checkbox"/>	I	<i>Matricaria discoidea</i> de Candolle	pineappleweed
<input type="checkbox"/>	I	<i>Mycelis muralis</i> (L.) Dumort.	wall lettuce
<input type="checkbox"/>		<i>Nabalus albus</i> (L.) Hooker [= <i>Prenanthes alba</i> ]	white rattlesnakeroot
<input type="checkbox"/>		<i>Nabalus altissimus</i> (L.) Hooker [= <i>Prenanthes altissima</i> ]	tall rattlesnakeroot
<input type="checkbox"/>		<i>Packera aurea</i> (L.) Á. Löve & D. Löve [= <i>Senecio aureus</i> ]	golden groundsel
<input type="checkbox"/>		<i>Packera paupercula</i> (Michx.) Á. Löve & D. Löve [= <i>Senecio pauperculus</i> ]	balsam groundsel = [balsam ragwort]
<input type="checkbox"/>		<i>Petasites frigidus</i> (L.) Fries [= <i>Petasites palmatus</i> ]	arctic sweet coltsfoot
<input type="checkbox"/>	I	<i>Pilosella xfloribunda</i> (Wimmer & Grabowski) Fries	king devil hawkweed
<input type="checkbox"/>	I	<i>Pilosella aurantiaca</i> (L.) F.W. Shultz & Sch. Bip. [= <i>Hieracium aurantiacum</i> ]	orange hawkweed
<input type="checkbox"/>	I	<i>Pilosella caespitosa</i> (Dumort.) P.D. Sell & C. West [= <i>Hieracium caespitosum</i> ; <i>Hieracium pratense</i> ]	meadow hawkweed
<input type="checkbox"/>	I	<i>Pilosella officinarum</i> F.W. Schultz & Sch. Bip. [= <i>Hieracium pilosella</i> ]	mouse-ear hawkweed
<input type="checkbox"/>	I	<i>Pilosella piloselloides</i> (Villars) Soják [= <i>Hieracium piloselloides</i> ]	tall hawkweed
<input type="checkbox"/>		<i>Rudbeckia hirta</i> L.	black-eyed Susan
<input type="checkbox"/>		<i>Solidago altissima</i> L.	tall goldenrod
<input type="checkbox"/>		<i>Solidago canadensis</i> L.	Canada goldenrod
<input type="checkbox"/>		<i>Solidago flexicaulis</i> L.	zigzag goldenrod
<input type="checkbox"/>		<i>Solidago gigantea</i> Aiton	giant goldenrod
<input type="checkbox"/>		<i>Solidago hispida</i> Muhlenb. ex Willd.	hairy goldenrod
<input type="checkbox"/>		<i>Solidago juncea</i> Aiton	early goldenrod
<input type="checkbox"/>		<i>Solidago nemoralis</i> Aiton	grey-stemmed goldenrod
<input type="checkbox"/>		<i>Solidago ptarmicoides</i> (Nees) B. Boivin	upland white goldenrod
<input type="checkbox"/>		<i>Solidago rugosa</i> Miller	rough-stemmed goldenrod
<input type="checkbox"/>		<i>Solidago uliginosa</i> Nutt.	bog goldenrod
<input type="checkbox"/>	I	<i>Sonchus arvensis</i> L.	field sow-thistle
<input type="checkbox"/>	I	<i>Sonchus asper</i> (L.) Hill	prickly sow-thistle
<input type="checkbox"/>	I	<i>Sonchus oleraceus</i> L.	common sow-thistle
<input type="checkbox"/>		<i>Symphotrichum boreale</i> (Torrey & A. Gray) Á. Löve & D. Löve [= <i>Aster borealis</i> ]	rush aster [=boreal aster]
<input type="checkbox"/>		<i>Symphotrichum ciliolatum</i> (Lindl.) Á. Löve & D. Löve [= <i>Aster ciliolatus</i> ]	Lindley's aster
<input type="checkbox"/>		<i>Symphotrichum cordifolium</i> (L.) G.L. Nesom [= <i>Aster cordifolius</i> ]	heart-leaved aster
<input type="checkbox"/>		<i>Symphotrichum ericoides</i> (L.) G.L. Nesom [= <i>Aster ericoides</i> ]	white heath aster
<input type="checkbox"/>		<i>Symphotrichum laeve</i> (L.) Á. Löve & D. Löve [= <i>Aster laevis</i> ]	smooth aster
<input type="checkbox"/>		<i>Symphotrichum lanceolatum</i> (Willd.) G.L. Nesom [= <i>Aster lanceolatus</i> ]	white paniced aster
<input type="checkbox"/>		<i>Symphotrichum lateriflorum</i> (L.) Á. Löve & D. Löve [= <i>Aster lateriflorus</i> ]	calico aster

<input type="checkbox"/>	<i>Symphotrichum novae-angliae</i> (L.) G.L. Nesom [= <i>Aster novae-angliae</i> ]	New England aster	
<input type="checkbox"/>	S4 <i>Symphotrichum oolentangiense</i> (Riddell) G.L. Nesom [= <i>Aster azureus</i> ]	sky blue aster	
<input type="checkbox"/>	<i>Symphotrichum pilosum</i> (Willd.) G.L. Nesom [= <i>Aster pilosus</i> ]	old field aster	
<input type="checkbox"/>	<i>Symphotrichum puniceum</i> (L.) Á. Löve & D. Löve [= <i>Aster puniceus</i> ]	purple-stemmed aster	
<input type="checkbox"/>	S4 <i>Symphotrichum urophyllum</i> (Lindl. ex DC) G.L. Nesom [= <i>Aster urophyllum</i> ]	arrow-leaved aster	
<input type="checkbox"/>	I <i>Taraxacum erythrospermum</i> Andrz.	red-seeded dandelion	
<input type="checkbox"/>	I <i>Taraxacum officinale</i> F.H. Wiggers	common dandelion	
<input type="checkbox"/>	I <i>Taraxacum palustre</i> (Lyons) Symons	marsh dandelion	
<input type="checkbox"/>	I <i>Tragopogon dubius</i> Scopoli	yellow goatsbeard	
<input type="checkbox"/>	I <i>Tragopogon pratensis</i> L.	meadow goatsbeard	
<input type="checkbox"/>	I <i>Tussilago farfara</i> L.	coltsfoot	
	<b>CAMPANULACEAE - bellflower family</b>		<b>TOTAL: 8</b>
<input type="checkbox"/>	<i>Campanula aparinoides</i> Pursh	marsh bellflower	
<input type="checkbox"/>	<i>Campanula gieseckeana</i> Vest [= <i>Campanula rotundifolia</i> ]	Giesecke's bellflower [= Harebell]	
<input type="checkbox"/>	I <i>Campanula rapunculoides</i> L.	creeping bellflower	
<input type="checkbox"/>	<i>Lobelia cardinalis</i> L.	cardinalflower	
<input type="checkbox"/>	<i>Lobelia dortmanna</i> L.	water lobelia	
<input type="checkbox"/>	<i>Lobelia inflata</i> L.	Indian tobacco	
<input type="checkbox"/>	<i>Lobelia siphilitica</i> L.	great blue lobelia	
<input type="checkbox"/>	S4 <i>Lobelia spicata</i> Lam.	pale-spike lobelia	
<b>ORDER:</b>	<b><u>Apiales</u></b>	<b>APIACEAE - carrot family</b>	<b>TOTAL: 7</b>
<input type="checkbox"/>	I <i>Aegopodium podagraria</i> L.	goutweed	
<input type="checkbox"/>	<i>Cicuta bulbifera</i> L.	bulbous water-hemlock	
<input type="checkbox"/>	<i>Cicuta maculata</i> L.	spotted water-hemlock	
<input type="checkbox"/>	I <i>Daucus carota</i> L.	wild carrot	
<input type="checkbox"/>	<i>Osmorhiza claytonii</i> (Michx.) C.B. Clarke	hairy sweet cicely	
<input type="checkbox"/>	<i>Sanicula marilandica</i> L.	Maryland sanicle	
<input type="checkbox"/>	<i>Sium suave</i> Walter	common water-parsnip	
	<b>ARALIACEAE - ginseng family</b>		<b>TOTAL: 3</b>
<input type="checkbox"/>	<i>Aralia hispida</i> Ventenat	bristly sarsaparilla	
<input type="checkbox"/>	<i>Aralia nudicaulis</i> L.	wild sarsaparilla	
<input type="checkbox"/>	<i>Aralia racemosa</i> L.	American spikenard	
<b>ORDER:</b>	<b><u>Dipsacales</u></b>	<b>ADOXACEAE - moschatel family</b>	<b>TOTAL: 8</b>
<input type="checkbox"/>	<i>Sambucus canadensis</i> L.	common elderberry	
<input type="checkbox"/>	<i>Sambucus racemosa</i> L. [= <i>Sambucus pubens</i> ]	red elderberry	
<input type="checkbox"/>	<i>Viburnum acerifolium</i> L.	maple-leaved viburnum	
<input type="checkbox"/>	<i>Viburnum lantanoides</i> Michx. [= <i>Viburnum alnifolia</i> ]	hobblebush	
<input type="checkbox"/>	<i>Viburnum lentago</i> L.	nannyberry	
<input type="checkbox"/>	<i>Viburnum nudum</i> L. [= <i>Viburnum cassinoides</i> ]	smooth withered [= wild raisin]	

<input type="checkbox"/>	I	<i>Viburnum opulus</i> L.	cranberry viburnum
<input type="checkbox"/>		<i>Viburnum rafinesquianum</i> Schultes	downy arrowwood
<b>CAPRIFOLIACEAE - honeysuckle family</b>			<b>TOTAL: 9</b>
<input type="checkbox"/>		<i>Diervilla lonicera</i> Miller	northern bush-honeysuckle
<input type="checkbox"/>		<i>Linnaea borealis</i> L.	twinflower
<input type="checkbox"/>	I	<i>Lonicera xbella</i> Zabel	showy fly honeysuckle
<input type="checkbox"/>		<i>Lonicera canadensis</i> Bartram ex Marshal	Canada fly honeysuckle
<input type="checkbox"/>		<i>Lonicera dioica</i> L.	limber honeysuckle
<input type="checkbox"/>		<i>Lonicera hirsuta</i> Eaton	hairy honeysuckle
<input type="checkbox"/>	I	<i>Lonicera tatarica</i> L.	Tatarian honeysuckle
<input type="checkbox"/>		<i>Symphoricarpos albus</i> (L.) S.F. Blake	common snowberry
<input type="checkbox"/>	S4S5	<i>Triosteum aurantiacum</i> E.P. Bickn.	orange-fruit horse-gentian

**GRAND TOTAL: 768**

### EXCLUDED SPECIES

Scientific names change as research continues. All records were reviewed looking for new information on ranges, revisions to names and/or a better understanding of occurrences. Where questions could not be resolved due to a lack of voucher specimens the species was excluded from the list. They may well occur, but until documentation in the form of specimens or photographs are provided, they remain excluded.

<input type="checkbox"/>	I	<i>Achillea millefolium</i> Linnaeus	common yarrow
<input type="checkbox"/>	S1	<i>Arabis pycnocarpa</i> var. <i>adpressipilis</i> M. Hopkins	cream-flowered rockcress
<input type="checkbox"/>		<i>Borodinia laevigata</i> (Muhlenb. ex Willd.) P.J. Alexander & Windham	smooth rockcress
<input type="checkbox"/>	S5	<i>Carex laxiflora</i> Lam.	loose-flowered sedge
<input type="checkbox"/>		<i>Caulophyllum thalictroides</i> (L.) Michx.	blue cohosh
<input type="checkbox"/>	S2	<i>Cerastium brachypodum</i> (Engelm. ex A. Gray) B.L. Rob.	short-stalked chickweed
<input type="checkbox"/>		<i>Cirsium muticum</i> Michx.	swamp thistle
<input type="checkbox"/>	S4	<i>Draba nemorosa</i> L.	woodland draba
<input type="checkbox"/>	E	<i>Eleocharis tenuis</i> (Willd.) Schult.	slender spikerush
<input type="checkbox"/>	S4	<i>Gentianopsis virgata</i> (Raf.) Holub	lesser fringed gentian
<input type="checkbox"/>		<i>Hamamelis virginiana</i> L.	American witch-hazel
<input type="checkbox"/>	S4	<i>Hedeoma pulegioides</i> (L.) Pers.	American false pennyroyal
<input type="checkbox"/>	S4S5	<i>Juncus brachycephalus</i> (Engelm.) Buchenau	short-headed rush
<input type="checkbox"/>	S4	<i>Lycopodium obscurum</i> L.	flat-branched tree-clubmoss
<input type="checkbox"/>	E	<i>Mentha arvensis</i> L.	field mint
<input type="checkbox"/>	I	<i>Nasturtium microphyllum</i> Boenn. ex Rchb.	small-leaved watercress
<input type="checkbox"/>	S4?	<i>Parthenocissus quinquefolia</i> (L.) Planchon ex DC	Virginia creeper
<input type="checkbox"/>		<i>Physocarpus opulifolius</i> (L.) Maximowicz	eastern ninebark
<input type="checkbox"/>	S4	<i>Prunus americana</i> Marshall	American plum
<input type="checkbox"/>		<i>Quercus alba</i> L.	white oak
<input type="checkbox"/>	I	<i>Rosa rugosa</i> Thunb.	rugosa rose
<input type="checkbox"/>	S4	<i>Salix nigra</i> Marshall	black willow
<input type="checkbox"/>		<i>Streptopus amplexifolius</i> (L.) de Candolle	clasping-leaved twisted-stalk
<input type="checkbox"/>	S4	<i>Symphotrichum pilosum</i> var. <i>pringlei</i> (A. Gray) G.L. Nesom	Pringle's aster

- S2S3 *Tomostima reptans* creeping draba  
(Lam.) Al-Shehbaz, M. Koch & Jordon-Thaden
- *Vicia americana* Muhlenb. ex Willd. American vetch

**NOTES:**

1. S ranks are assigned by the Natural Heritage Information Centre and reflect how common the species are in the Province of Ontario. Plants listed as S5 are common or secure in Ontario and a blank space above indicates S5. Other codes mean:

E = excluded – does not occur in Ontario

S4 = apparently secure

S3 = vulnerable

S2 = imperiled

S1 = critically imperiled

SU = unrankable (not enough information)

I = Introduced

\* status assigned by NHIC is based on the origin of these species as hybrids of two native species

2. The nomenclature follows that of: Brouillet, L., F. Coursol, S.J. Meades, M. Favreau, M. Anions, P. Bélisle & P. Desmet. 2010+. VASCAN, the Database of Vascular Plants of Canada. <http://data.canadensys.net/vascan/> (consulted on 2016-01-01) which is consistent with NHIC and the Royal Ontario Museum.

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5	ARACEAE - Arum family	5
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16	LYTHRACEAE - loosestrife family	2
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4	THELYPTERIDACEAE - marsh fern family	2
17	THYMELAEACEAE - mezereum family	1
11	TYPHACEAE - cattail family	6
15	ULMACEAE - elm family	3
15	URTICACEAE - nettle family	5
22	VERBENACEAE - vervain family	4
13	VIOLACEAE - violet family	12
12	VITACEAE - grape family	2
7	XANTHORRHOEACEAE - Hemerocallis family	1
<b>Total number of species</b>		<b>768</b>

## Further Reading

Catling, Paul M. and Vivian R. Brownell. 1995. A review of the alvars of the Great Lakes region: distribution, floristic composition, biogeography and protection. *Canadian Field-Naturalist* 109(2): 143-171.

Dickinson, T., Metsger, D., Bull, J. and Dickinson, R. 2004. *The ROM Field Guide to the Wildflowers on Ontario*. Royal Ontario Museum and McClelland and Stewart Ltd., Toronto.

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McMurtry, M.J., W.D. Bakowsky, S.R. Brinker, C.D. Jones, M.J. Oldham and D.A. Sutherland. 2008. *Life Science Reconnaissance of Selected Sites in The Land Between, Final Report*. Natural Heritage Information Centre, Ontario Ministry of Natural Resources, Peterborough, Ontario. vi + 85 pp.

Reschke, C., Reid, R., Jones, J., Feeney, T. and Potter, H. 1999. *Conserving Great Lakes Alvars*. Final Technical Report of the International Alvar Conservation Initiative. Alvar Working Group, The Nature Conservancy, Great Lakes Program



Little bluestem in winter

**Dale A. Leadbeater, B.Sc., B.Ed., R.P.Bio., P.Biol.,** is a Senior Biologist at SLR Consulting (Canada) where she prepares environmental assessments and ecological land management plans. She worked for the University of Toronto in Botany and remains a field associate of the Royal Ontario Museum. She is on the Board of the Society for Ecological Restoration – Ontario Chapter, is certified as a Wetland Evaluator, and designed and taught the training course for Ecological Land Classification in Southern Ontario on behalf of the Ontario Ministry of Natural Resources for many years. Dale lives on a 200-acre wildlife preserve near Kirkfield.

**Anne Barbour, M.L.S.,** is an amateur botanist who started learning about plants 35 years ago with the Essex County Field Naturalists. The move to Coboconk with her husband Brian in 2000 introduced them to the Kawartha and Carden Field Naturalists, where they met Dale. Anne's scope of Ontario flora widened, the CKL FLORA Project was born and the fun continues. Anne's organizational skills as a retired professional librarian have proven to be an important asset for the project. Anne now leads hikes for Couchiching Conservancy's Passport to Nature.

**John Vandenberg, Hon. B.Sc. in botany,** is a retired secondary school science and horticulture teacher. John was an artist for a few years early in his career, and has recently returned to his art, joining the Port Perry Artists' Association. John was a member and past President of the Kawartha Field Naturalists and his exacting eye for botanical detail is obviously an asset for the CKL FLORA Project.



**Little bluestem (*Schizachyrium scoparium*)**