

Syllogeus 63

Flora of the North Shore of Lake Superior (Vascular Plants of the Ontario Portion of the Lake Superior Drainage Basin)

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and
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OF LAKE SUPERIOR

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A B S T R A C T

This study is based on botanical explorations carried out in the Ontario portion of the Lake Superior drainage basin. Collections of vascular plants were examined from a five-year survey carried out for the National Museum of Canada by R.C. Hosie, T.M.C. Taylor and their associates (1935-1939), as well as from more recent botanical explorations in the area by C.E. Garton, J.H. Soper and D.R. Given. Twelve hundred and eleven species of vascular plants (994 native and 217 introduced) are listed with tabular distribution indicated for nine subdivisions of the north shore of Lake Superior. There are brief discussions, with examples, of different types of geographical distribution represented by some of the species in the flora. A separate list of the rare species is provided.

R É S U M É

Cette étude porte sur des explorations botaniques effectuées dans la portion ontarienne du bassin d'écoulement du lac Supérieur. Les auteurs ont examiné les collections de spécimens qui ont été récoltés annuellement de 1935 à 1939 par R.C. Hosie, T.M.C. Taylor et leurs collaborateurs, sous la direction du Musée National du Canada. On a aussi inclus dans cette étude les collections plus récentes faites dans la même région par C.E. Garton, J.H. Soper et D.R. Given. Un catalogue sous forme de tableau présente la distribution de 1 200 espèces de plantes vasculaires (994 indigènes et 217 introduites) de neuf sous-régions de la côte nord du lac Supérieur. Certaines espèces de la flore ont été utilisées pour représenter les différents types de distribution géographique brièvement discutés dans ce travail. Une liste distincte indique les espèces rares de la région.

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INTRODUCTION

The north shore of Lake Superior has been receiving a great deal of attention from botanists during recent years. However, it was in the middle of the nineteenth century that the European-trained naturalist, Louis Agassiz, first called attention to the arctic-alpine component of the flora of that region. In 1848 he made a canoe trip from Sault Ste. Marie to the Kaministiquia River and back (Agassiz, 1850) and noted the occurrence, mostly near the shore of the lake, of plants resembling alpine species of Europe. Subsequently, this aspect of the flora and the occurrence of western American disjuncts in the Upper Great Lakes Region have been the subjects of several publications (Fernald, 1935; Soper & Maycock, 1963; Given & Soper, 1981; Marquis & Voss, 1981).

Slightly more than a quarter of a century has passed since the section of the Ontario highway joining Wawa and Marathon was officially opened (1960), thereby completing the Lake Superior portion of the Trans-Canada Highway (Ontario Highway No. 17). The magnificent scenery along the north shore has attracted many visitors. Others have gone there to explore the geology, vegetation or wildlife (Anon., 1981; Baxter, 1983; Beechey, 1974; Harrington, 1964; Phillips, 1975; Soper, 1963; Waters, 1987). Botanists have taken advantage of the new road to explore parts of the lakeshore, and of the region between it and the highway, that had previously been difficult to reach.

The scientific exploration of the Upper Great Lakes region during the nineteenth century has been well documented by Voss (1978). A summary of botanical exploration in the Lake Superior region since 1900 has been presented (Given & Soper, *op. cit.*) but additional details are given here concerning the series of five surveys sponsored by the National Museum of Canada between 1935 and 1939. The collections that resulted from those surveys form a major part of the basis for the checklist presented here.

Although financial support for the 1935-1939 Lake Superior surveys was provided by the National Museum of Canada, the leaders and principal staff of the expeditions were members of the Departments of Botany and of Forestry at the University of Toronto. They were assisted by students and, on several occasions, zoologists joined the expeditions in order to gather information on mammal and bird populations.

These surveys constituted the first attempt at intensive botanical exploration of the Ontario portion of the north shore of Lake Superior. Their purpose was to obtain collections and records of vascular plants, mammals and birds of the region and to gather information on habitat, ecological relationships and economic considerations. The following is a summary indicating the location, duration, participants and results of the five summers' investigations.

(1) 1935 - BATCHAWANA: Location. - The first area to be investigated was a section of Algoma District lying between the Lake Superior shore and a line from Mica Bay passing south of Pancake Lake to a point where this line would cross the Harmony River (see map in Hosie 1938, p. 9, fig. 1). Batchawana Island was included in the survey. A list of eleven places that were more or less intensively studied was given by Anderson (1936, p. 18). The main base camp was one of the Ontario Northern Development road camps on the Trans-Canada Highway at about the middle of the area. Centre of area: 47°00' N, 84°37' W. Dates. - The field work extended from July 12 to September 20, 1935. Staff. - The botany-forestry part of the team consisted of R.C. Hosie, T.M.C. Taylor, A.P. Leslie, S.T.B. Losee and R.E. Fitzpatrick. Results. - In addition to the collections of botanical specimens, numbering about 2500 and mostly with three replicates of each, some 300 photographs were taken of the terrain, plant associations and

individual plant species. Publication. - The formal report on this first survey consisted of an illustrated account of the vegetation, including detailed descriptions of the plant associations, together with an annotated catalogue of the vascular plants (ca. 700 taxa) and a report on the mammal populations (Hosie, 1938).

(2) 1936 - SIBLEY: Location. - The second biological survey of this series took place in the Thunder Cape area, comprising the greater part of Sibley Forest Reserve in Sibley Township, Thunder Bay District. The northern boundary of the area was a line running eastward from Vigar's Point (McTavish Tp.) and passing just north of Pass Lake and through the Canadian National Railway's station of the same name. Special attention was given to the southern third of the Sibley Peninsula. This peninsula is bordered on the west by Thunder Bay and on the east by Black Bay. Isle Royale (Michigan) is 20-25 km (12-15 miles) southward in Lake Superior. A list of thirteen areas that were examined more or less intensively was included in the report by Anderson (1937, pp. 19-20). The base camp for most of the field season was a group of tents pitched on the north side of Burnt Island near the dock at Silver Islet Landing. Centre of area. - 48°26'N, 88°45'W. Dates. - From June 18 to September 11, 1936. Staff. - The field party consisted of T.M.C. Taylor, S.T.B. Losee, M.W. Bannan and two zoologists. Results. - About 2300 specimens were collected (with at least three replicates of each), together with numerous photographs. Two reports by T.M.C. Taylor were submitted to the National Museum in manuscript form: one on the Vegetation of Sibley Township (55 pp., 34 figs.) and the other comprising a Catalogue of Flowering Plants and Ferns (114 pp., incl. about 600 taxa). These unpublished reports are on file at the National Herbarium of Canada in Ottawa.

(3) 1937 - SCHREIBER AND THE SLATE ISLANDS: Location. - This survey encompassed an area along the north shore of Lake Superior from the Steel River (Bottle Point) west to the Nipigon River and included several offshore islands (Wilson Is., Copper Is., and St. Patrick Is.). Collecting was done mainly along the lakeshore between Rosspoint and Terrace Bay or within a mile or two of the highway, but trips were made farther inland around the town of Schreiber. Also, two weeks were spent exploring the Slate Islands, including the Leadman Group. Eleven areas that were explored intensively were listed by Anderson (1938, p. 11). The main base camp was set up at Walker Lake, just west of Schreiber and a temporary one in a cabin on the Slate Islands. Centre of area. - 48°50'N., 87°15'W. Dates. - June 23 to September 11, 1937. Staff. - The party consisted of R.C. Hosie, S.T.B. Losee and M.W. Bannan. Results. - Over 2200 collections were made in triplicate and about 100 photographs were taken. A report on the Vegetation of Schreiber Area and the Slate Islands (83 pp., 24 figs.) was prepared by R.C. Hosie and a Catalogue of Flowering Plants and Ferns (115 pp., incl. 600 taxa) by T.M.C. Taylor. Copies of these unpublished manuscripts are on file at the National Herbarium.

Interesting botanical discoveries on this survey included Lycopodium sitchense, Cystopteris montana, Polygonum viviparum, Dryas drummondii, D. integrifolia, Empetrum nigrum and Euphrasia arctica. Dryas was found only on the Slate Islands.

(4) 1938 - MICHIPICOTEN: Location. - The fourth survey was carried out in the immediate vicinity of Michipicoten, Algoma District, using the roads, railway and streams as access routes. The Lake Superior shore was also explored between Brûlé Bay and the Doré River. The base camp was at

the Michipicoten Mission in the town of Michipicoten River. Centre of area. 47°55'N, 84°49'W. Staff. - R.C. Hosie was in charge of the party and was assisted by H.M. Harrison and E.O. Hughes. Dates. - Field work was carried out from June 17 to September 16, 1938 (Anderson, 1939). Results. - The collections consisted of about 3000 specimens (mostly with three replicates) and some 100 photographs. A report on the Vegetation of Michipicoten (101 pp., 26 figs.) was prepared by R.C. Hosie and a Catalogue of Flowering Plants and Ferns (125 pp., incl. 650 taxa) by T.M.C. Taylor. Copies of these reports are on file at the National Herbarium.

(5) 1939 - PENINSULA: Location. - The last of these surveys was centered at Peninsula (now Marathon) in Pic. Tp., Thunder Bay District (Anderson, 1949). The original name was derived from that of a nearby point on Lake Superior known as "The Peninsula" (48°43'N, 86°24'W). The field party, consisting of T.M.C. Taylor, M.W. Bannan and H.M. Harrison, spent eleven weeks in the area and collected about 2500 specimens (mostly with four replicates), yielding nearly 700 taxa.

The writing of the reports on the Peninsula survey was undertaken by the late Professor Taylor and was virtually complete by the spring of 1941. War service then intervened and, shortly afterwards, Professor Taylor left the University of Toronto to take up a position in the Department of Botany at the University of British Columbia. With financial assistance from the National Museum, he returned to Toronto in 1947 to review the collections from all five of the Lake Superior surveys. He had permission to combine the results of these surveys into a single comprehensive report for publication. Unfortunately, this work was not completed and no reports detailing the 1939 field work have been found

on file at the National Herbarium. However, the entire collection from all five surveys was identified by 1948 and the material was divided for distribution to a number of herbaria. The two largest and most complete sets (each with some unicates) were deposited at the National Herbarium of Canada, Ottawa (CAN) and at the herbarium of the University of Toronto (TRT). The balance of the material was sorted at the National Herbarium, and according to their records, these replicates were made up into small sets distributed as follows: (a) specimens from three of the five expeditions - The Gray Herbarium (GH), Herbier Marie-Victorin (MT), Institut Agronomique d'Oka (LT, now incorporated in QFA), Swedish Museum of Natural History, Stockholm (S), and Intermountain Herbarium, Utah State University (UTC); (b) specimens from two expeditions - MICH, NY, UPS; (c) - specimens from a single expedition - ACAD, C, DS, GB, ISC, LCU, SASK, UC, US, V, WS, and WTU. The abbreviations for herbaria follow Holmgren et al. (1981).

THE CHECKLIST

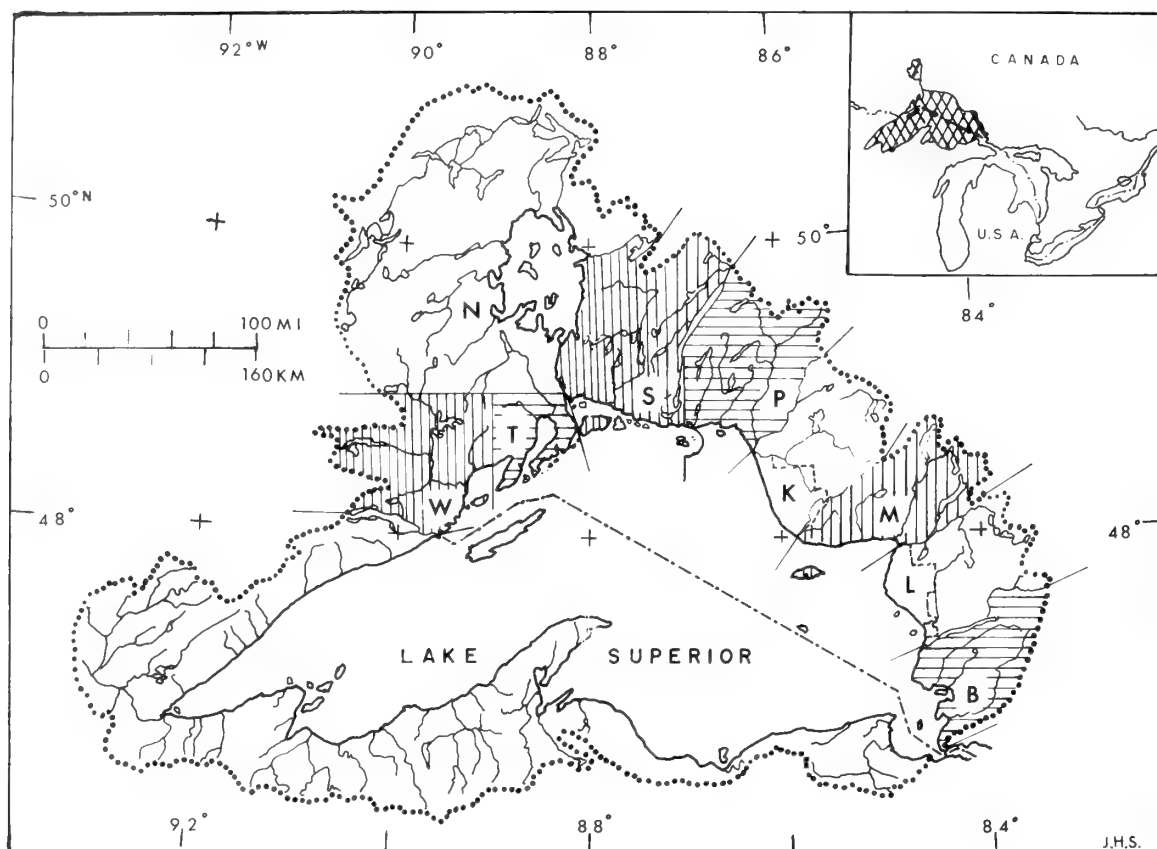
The checklist is based mainly on collections housed in the following herbaria: National Herbarium of Canada, Ottawa (CAN), Agriculture Canada, Biosystematics Research Centre, Ottawa (DAO), Lakehead University, Thunder Bay (LKHD), and the University of Toronto (TRT). In addition to the voucher specimens for the five-year survey by T.M.C. Taylor et al., these herbaria contain the largest sets of collections in the area by C.E. Garton (1933-1987), J.H. Soper (1961-1973) and D.R. Given (1973). Records based on some collections by E.G. Voss in the herbarium of the University of Michigan, Ann Arbor (MICH) have also been included.

The nomenclature mostly follows that of Scoggan (1978-79) but a number of more recent revisions have been used, such as the checklist for Ontario pteridophytes (Britton, 1984, 1985). The additional publications consulted but not cited in the text are listed in Appendix I.

Names of introduced species are marked in the list with a plus sign (+). A series of alphabetic and numeric codes has been used to give an indication of the general type of habitat in which the species occur. The letters and numbers used, singly or in a string, represent the situations as follows: D - Dry; M - Mesic (middle); W - Wet

- (1) - Waste places; roadsides, railways, gravel pits
- (2) - Aquatic: in or along open water of bays, lakes, ponds, lagoons, rivers, streams
- (3) - Mires: bogs, swamps, muskegs
- (4) - Meadows: prairies, grass steppes
- (5) - Forest: hardwood, coniferous, mixed
- (6) - Woodland: open woods, borders of woods, savannah, parkland
- (7) - Shores: sand beaches or dunes, gravel, pebble or cobblestone shingles, clay flats
- (8) - Rock exposures: pavement, cliffs, talus slopes
- (9) - Cultivated areas and borders: fencerows, hedgerows, fields, gardens, urban sites

Following the habitat code(s), the local distribution of each species is shown by marking its occurrence in one or more of the nine columns that represent the geographic subdivisions. These subdivisions partition the total area of the Ontario portion of the drainage basin of Lake Superior into smaller sections (see Figure 1) so as to highlight those areas that have been the subject of botanical surveys or are of special interest by



LEGEND

Figure 1. The Lake Superior Drainage Basin (outlined by dots on the map.). Inset: location of Lake Superior in The Great Lakes of North America. The Checklist covers the Ontario portion that has been divided into nine contiguous areas as follows:

W - southwesternmost part of Thunder Bay District, T - Thunder Cape, N - Lake Nipigon, S - Schreiber, P - Peninsula, K - Pukaskwa, M - Michipicoten, L - Lake Superior Provincial Park, B - Batchawana. (A description of the boundaries of these areas is given in the text.)

virtue of the location therein of a national or provincial park. The five surveys undertaken by the University of Toronto in the 1930s are covered by five of these subdivisions labelled as follows: "B" (Batchawana - 1935), "T" (Thunder Cape - Sibley Peninsula, 1936), "S" (Schreiber and Slate Islands - 1937), "M" (Michipicoten - 1938) and "P" (Peninsula (Marathan), Pic Tp. - 1939). Pukaskwa National Park (Garton, 1975) is included in "K" and Lake Superior Provincial Park (Anon, 1985; Reznicek, 1985) in "L". "W" is the westernmost part of Thunder Bay District (Garton, 1984; Hartley, 1968) south of 49° N from the Nipigon River west to the Minnesota border and "N" includes the Lake Nipigon drainage basin and the area along the Nipigon River.

Composition of the Flora

Introduced Species. - The present list contains 1211 taxa, 217 of which are introductions (18% of the total). This percentage is significantly lower than that found in the flora of southern Ontario, where the introduced species make up 25 to 30% of the flora. Also, only 18 of the introduced species (1.5% of the total flora) have as yet been recorded in all nine of the geographical subdivisions used in the checklist. These include such common weeds of roadsides and waste places as Agropyron repens, Agrostis gigantea, Dactylis glomerata, Phleum pratense, Plantago major, Ranunculus acris, Trifolium pratense and T. repens.

Native Species. - In contrast to the above, 261 of the 994 indigenous species in the list (26%) have been found in all nine subdivisions of the north shore of Lake Superior. Although some of these are also found in southern Ontario, most are species that are typical of the mainly

coniferous Boreal Forest Region or the mixed conifer-hardwoods of the Great Lakes-St. Lawrence Forest Region (Rowe, 1959). The following examples have been arbitrarily grouped under several headings according to growth habit or habitat.

Trees: Abies balsamea, Betula papyrifera, Larix laricina, Picea glauca, P. mariana, Pinus banksiana, Populus tremuloides, Prunus pennsylvanica, Sorbus decora, Thuja occidentalis.

Shrubs: Acer spicatum, Alnus incana ssp. rugosa, A. viridis ssp. crispa, Potentilla fruticosa, Prunus virginiana, Ribes glandulosum, Rosa acicularis, Salix bebbiana, Spiraea alba.

Herbs: Aster macrophyllus, Clintonia borealis, Cornus canadensis, Cypripedium acaule, Dryopteris fragrans, Equisetum sylvaticum, Galium triflorum, Geocaulon lividum, Halenia deflexa, Lycopodium clavatum, Lysimachia terrestris, Melampyrum lineare, Mertensia paniculata, Mitella nuda, Petasites frigidus, Polygonum cilinode, Trillium cernuum, Viola adunca, V. blanda, V. renifolia.

Bogs and Aquatic Habitats: Andromeda glaucophylla, Chamaedaphne calyculata, Drosera rotundifolia, Dulichium arundinaceum, Hippuris vulgaris, Kalmia polifolia, Ledum groenlandicum, Listera cordata, Lonicera villosa, Menyanthes trifoliata, Myrica gale, Polygonum amphibium, Rhynchospora alba, Salix pedicellaris, S. pyrifolia, Scheuchzeria palustris, Smilacina trifolia, Triadenum fraseri, Utricularia cornuta, U. intermedia.

Disjuncts. - In the Lake Superior drainage basin there are a number of vascular plants that are disjuncts, having the major part of their area of distribution in western North America (Marquis & Voss, 1981). In the examples that follow, the species accompanied by (E) are also known from one or more localities in the St. Lawrence River basin of eastern Canada: Arnica cordifolia, Astragalus adsurgens var. robustior, Collinsia parviflora (E), Galium kamtschaticum (E), Moehringia macrophylla (E), Oplopanax horridus, Osmorhiza chilensis (E), Poa canbyi (E), Potentilla rivalis, Rubus parviflorus, Vaccinium membranaceum, V. ovalifolium.

Western Species - Some species of western affinity are at the edge of their range in Ontario and are found only in section "W", the westernmost of the nine geographical subdivisions. Included in this category are Adoxa moschatellina, Betula occidentalis, Cirsium drummondii, Erigeron lonchophyllus, Heuchera richardsonii, Koeleria pyramidata, Orthocarpus luteus and Oxytropis viscida.

Prairie Species. - Species characteristic of western or southwestern prairies are Allium stellatum, Festuca hallii, Heterotheca villosa, Solidago missouriensis and Stipa spartea.

Northern Species. - Some of the typical northern or arctic species found in the area are Astragalus alpinus, Calamagrostis purpurascens, Polygonum viviparum, Pyrola grandiflora, Saxifraga tricuspidata, Senecio congestus and Woodsia alpina.

Great Lakes Endemic. - Cirsium pitcheri is a good example in this category.

Species with a gap in distribution. - There is a fairly large group of species that occur at both the eastern and western ends of Lake Superior but are absent along central part of the north shore of the lake. Some of these are Arisaema triphyllum, Aronia melanocarpa, Aster laevis, Caulophyllum thalictroides, Celastrus scandens, Circaea lutetiana ssp. canadensis, Comandra umbellata, Dirca palustris, Leersia oryzoides, Parthenocissus vitacea, Populus grandidentata and Ulmus americana.

Rare Species. - Seventy-one species in the checklist (5.8%) have been designated as rare or endangered in Ontario (Argus & White, 1982, 1983; Argus & Keddy, 1984; Pryer & Argus, 1987) and eighteen of these are rare in Canada (Argus & Pryer, 1989). If further botanical exploration uncovers additional localities for these species, some of them may be removed from these categories. Although it would have been possible to note their rare status by means of a special symbol in the checklist, the full list is given here for easy reference. An asterisk (*) indicates species also rare in Canada.

| | |
|--------------------------|----------------------------|
| Adenocaulon bicolor | * Botrychium hesperium |
| Adoxa moschatellina | Botrychium lanceolatum |
| * Agropyron psammophilum | var. angustisegmentum |
| Allium stellatum | Bromus pumpellianus |
| Antennaria parvifolia | Calamagrostis purpurascens |
| Antennaria rosea | * Carex appalachica |
| Arenaria humifusa | (see C. radiata) |
| Arnica cordifolia | Carex atratiformis |
| Arnica lonchocarpa | Carex haydenii |
| Aster prealtus | Carex loliacea |
| var. prealtus | Carex supina |
| Astragalus adsurgens | ssp. spaniocarpa |
| var. robustior | Carex wiegandii |

- * *Chenopodium leptophyllum*
- Cirsium drummondii*
- * *Cirsium pitcheri*
- Collinsia parviflora*
- * *Coreopsis lanceolata*
- Cuscuta cephalanthii*
- Cystopteris montana*
- Disporum trachycarpum*
- Dryas drummondii*
- Elymus glaucus*
- Festuca hallii*
- Galium kamschaticum*
- * *Gymnocarpium robertianum*
- Heterotheca villosa*
- * *Hieracium venosum*
- var. *nudicaule*
- Juncus acuminatus*
- Juncus greenei*
- Koeleria macrantha*
- Listera borealis*
- * *Malaxis paludosa*
- Moehringia macrophylla*
- Muhlenbergia racemosa*
- * *Najas gracillima*
- * *Oenothera pilosella*
- Oplopanax horridus*
- Oxytropis viscida*
- (see *O. leucantha*)
- * *Pellaea atropurpurea*
- Phacella franklinii*
- Poa canbyi*
- * *Polygonella articulata*
- Polystichum braunii*
- var. *purshii*
- Potamogeton confervoides*
- Potentilla gracilis*
- Potentilla hippiana*
- Potentilla multifida*
- Potentilla rivalis*
- Pterospora andromedea*
- * *Sagittaria graminea*
- var. *cristata*
- Scirpus clintonii*
- * *Scirpus heterochaetus*
- * *Solidago glutinosa*
- ssp. *randii*
- Solidago missouriensis*
- Solidago rigida*
- Sparganium emersum*
- var. *multipedunculatum*
- Stipa spartea*
- * *Torreyochloa pallida*
- Vaccinium membranaceum*
- Vaccinium ovalifolium*
- * *Woodsia alpina*
- Woodsia scopulina*

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CHECKLIST OF THE VASCULAR PLANTS
OF THE NORTH SHORE OF LAKE SUPERIOR

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | | | |
|---|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B | |
| <u>PTERIDOPHYTA</u> | | | | | | | | | | | |
| ADIANTACEAE (see POLYPODIACEAE) | | | | | | | | | | | |
| ASPLENIACEAE (see POLYPODIACEAE) | | | | | | | | | | | |
| EQUISETACEAE | | | | | | | | | | | |
| Equisetum arvense L. | 134679 | x | x | x | x | x | x | x | x | x | x |
| E. fluviatile L. | W1237 | x | x | x | x | x | x | x | x | x | x |
| E. hyemale L. | D1567 | x | x | x | x | x | x | x | | | x |
| E. laevigatum A.Br. | W17 | x | x | x | | | | x | x | | x |
| E. palustre L. | W1237 | x | x | x | x | x | x | x | x | x | x |
| E. pratense Ehrh. | 4567 | x | x | x | x | x | x | x | x | x | x |
| E. scirpoides Michx. | 567 | x | x | x | x | x | x | x | x | | x |
| E. sylvaticum L. | 1356 | x | x | x | x | x | x | x | x | x | x |
| E. variegatum Schleich. | W1346 | x | x | x | x | x | x | x | | | x |
| ISOETACEAE | | | | | | | | | | | |
| Isoetes echinospora Dur. (I. braunii Dur.; | | | | | | | | | | | |
| I. muricata Dur. | 2 | x | x | x | x | x | x | x | x | x | x |
| I. macrospora Dur. | 2 | x | x | x | | | | | | | |
| LYCOPODIACEAE | | | | | | | | | | | |
| Lycopodium annotinum L. | 3678 | x | x | x | x | x | x | x | x | x | x |
| L. clavatum L. | 67 | x | x | x | x | x | x | x | x | x | x |
| L. complanatum L. (incl. L. digitatum A.Br.) | 67 | x | x | x | x | x | x | x | x | x | x |
| L. inundatum L. | 137 | x | x | | x | x | x | x | x | x | x |
| L. lucidulum Michx. | 58 | x | x | x | x | x | x | x | x | x | x |
| L. obscurum L. (incl. L. dendroideum Michx.) | M58 | x | x | x | x | x | x | x | x | x | x |
| L. porophilum Lloyd & Underw. | 8 | | | | | | x | | | | |
| L. selago L. | 578 | x | x | x | x | x | x | x | x | x | x |
| L. sitchense Rupr. (incl. L. sabinifolium Willd.) | 6 | x | | | | | | x | x | x | x |
| L. tristachyum Pursh | 4678 | x | x | | | | | x | x | x | x |
| OPHIOGLOSSACEAE | | | | | | | | | | | |
| Botrychium dissectum Spreng. (incl. B. obliquum Muhl.) | 5 | x | | | | | | | x | | |
| B. hesperium (Maxon & Clausen) Wagner & Lellinger | 46 | | | | | | | x | | x | |
| B. lanceolatum L. var. angustisegmentum Pease & Moore | 7 | x | | | | | | | x | | x |
| B. lunaria (L.) Sw. (incl. B. minganense Vict.) | 456 | x | x | x | x | x | x | x | | | |
| B. matricariifolium A.Br. ex Koch | 478 | | | | | | | x | x | x | x |
| B. multifidum (S.G.Gmel.) Rupr. | 148 | x | x | x | x | | | | x | x | x |
| B. simplex E.Hitchc. | 479 | x | x | | | | | | | | |
| B. virginianum (L.) Sw. | 156 | x | x | x | x | x | x | x | x | x | x |
| Ophioglossum vulgatum L. var. pseudopodium (Blake) Farwell | 3679 | x | | | | | | | | | x |
| OSMUNDACEAE | | | | | | | | | | | |
| Osmunda cinnamomea L. | W356 | x | | | | | | | | x | x |
| O. claytoniana L. | W1567 | x | x | x | x | x | x | x | x | x | x |
| O. regalis L. var. spectabilis (Willd.) Gray | 578 | x | x | x | x | | | | x | x | x |

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | |
|--|-----------------|-----------------------------------|---|---|---|---|---|---|-----|
| | | W | T | N | S | P | K | M | L B |
| <u>PTERIDOPHYTA</u> | | | | | | | | | |
| POLYPODIACEAE (Incl. Adiantaceae, Aspleniaceae) | | | | | | | | | |
| <i>Adiantum pedatum</i> L. | 5 | | | | | | | | x |
| <i>Asplenium trichomanes</i> L. | M8 | x | x | x | | | | x | x x |
| <i>A. viride</i> Huds. | 8 | | | | | | | x | x |
| <i>Athyrium filix-femina</i> (L.) Roth ssp. <i>angustum</i> (Willd.) Clausen | W5678 | x | x | x | x | x | x | x | x x |
| <i>A. thelypteroides</i> (Michx.) Desv. | 567 | | | | | | | | x |
| <i>Cryptogramma stelleri</i> (S.G.Gmel.) Prantl | 8 | x | x | x | x | x | x | x | x x |
| <i>Cystopteris bulbifera</i> (L.) Bernh. | 78 | x | x | x | | x | x | x | x x |
| <i>C. fragilis</i> (L.) Bernh. (incl. <i>C. dickieana</i> Sim) | 578 | x | x | x | x | x | x | x | x x |
| <i>C. laurentiana</i> (Weatherby) Blasdell | 578 | x | x | | x | x | | x | x |
| <i>C. montana</i> (Lam.) Bernh. | 567 | | x | | x | x | | | |
| <i>Dryopteris carthusiana</i> (Villars) H.P.Fuchs (<i>D. spinulosa</i> (O.F.Muell.) Watt) | 56 | x | x | x | x | x | x | x | x x |
| <i>D. cristata</i> (L.) Gray | 367 | x | x | x | x | x | x | x | x x |
| <i>D. expansa</i> Presl (<i>D. austriaca</i> (Jacq.) Woynar, <i>D. dilatata</i> Gray) | 5678 | x | x | x | x | x | x | x | x x |
| <i>D. filix-mas</i> (L.) Schott | 58 | | | | | | | | x |
| <i>D. fragrans</i> (L.) Schott | D8 | x | x | x | x | x | x | x | x x |
| <i>D. intermedia</i> (Muhl.) Gray | 5678 | x | x | x | x | x | x | x | x x |
| <i>D. marginalis</i> (L.) Gray | M58 | | | | | | | | x x |
| <i>Gymnocarpium dryopteris</i> (L.) Newm. | 5678 | x | x | x | x | x | x | x | x x |
| <i>G. jessoense</i> (Koidz.) Koidz. ssp. <i>parvulum</i> Sarvela | 8 | x | x | x | x | x | | x | |
| <i>G. robertianum</i> (Hoffm.) Newm. | 78 | x | x | x | | | | x | |
| <i>G. X intermedium</i> Sarvela | 8 | x | x | x | x | x | | x | |
| <i>Matteuccia struthiopteris</i> (L.) Todaro | 567 | x | x | x | x | x | x | x | x x |
| <i>Onoclea sensibilis</i> L. | W567 | x | x | x | x | x | x | x | x x |
| <i>Pellaea atropurpurea</i> (L.) Link | 8 | | | | x | | | | |
| <i>P. glabella</i> Mett. ex Kuhn | 8 | x | x | | | | | | x |
| <i>Phegopteris connectilis</i> (Michx.) Watt (<i>Thelypteris phegopteris</i> (L.) Slosson) | 5678 | x | x | x | x | x | x | x | x x |
| <i>Polypodium virginianum</i> L. | 68 | x | x | x | x | x | x | x | x x |
| <i>Polystichum braunii</i> (Spencer) Fée ssp. <i>purshii</i> (Fern.) Calder & Taylor | 578 | x | x | x | | | | x | x x |
| <i>P. lonchitis</i> (L.) Roth | 8 | x | | | | | | | x |
| <i>Pteridium aquilinum</i> (L.) Kuhn | D1567 | x | x | x | x | x | x | x | x x |
| <i>Thelypteris noveboracensis</i> (L.) Nieuwl. | 3567 | x | | | | | | | x |
| <i>T. palustris</i> (Salisb.) Schott var. <i>pubescens</i> (Lawson) Fern. | 34567 | x | x | x | | | | | x |
| <i>Woodsia alpina</i> (Bolton) S.F.Gray | 8 | x | x | x | x | | | x | x |
| <i>W. cathcartiana</i> Robins. (incl. <i>W. oregana</i> D.C.Eaton) | 8 | x | x | x | | | | | x |
| <i>W. glabella</i> R.Br. | 8 | x | x | x | x | x | x | x | x x |
| <i>W. ilvensis</i> (L.) R.Br. | D8 | x | x | x | x | x | x | x | x x |
| <i>W. scopulina</i> D.C.Eaton | 8 | x | x | x | | | | x | |
| SELAGINELLACEAE | | | | | | | | | |
| <i>Selaginella eclipses</i> Buck (<i>S. apoda</i> (L.) Fern.) | W78 | | | | | | | | x |
| <i>S. rupestris</i> (L.) Spring | D8 | x | x | x | x | x | x | x | x x |
| <i>S. selaginoides</i> (L.) Link | W37 | x | x | x | x | x | x | x | x x |

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | | |
|---|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>PINOPHYTA</u> | | | | | | | | | | |
| CUPRESSACEAE | | | | | | | | | | |
| Juniperus communis L. var. depressa Pursh | D478 | x | x | x | x | x | x | x | x | x |
| J. horizontalis Moench | D78 | x | x | | x | x | x | x | x | x |
| Thuja occidentalis L. | 378 | x | x | x | x | x | x | x | x | x |
| PINACEAE | | | | | | | | | | |
| Abies balsamea (L.) Mill. | 35678 | x | x | x | x | x | x | x | x | x |
| Larix laricina (Du Roi) Koch | W37 | x | x | x | x | x | x | x | x | x |
| Picea glauca (Moench) Voss | 5678 | x | x | x | x | x | x | x | x | x |
| P. mariana (Mill.) BSP | W35678 | x | x | x | x | x | x | x | x | x |
| Pinus banksiana Lamb. | D678 | x | x | x | x | x | x | x | x | x |
| P. resinosa Ait. | D78 | x | x | x | x | | x | x | x | x |
| P. strobus L. | 5678 | x | x | x | x | | x | x | x | x |
| Tsuga canadensis (L.) Carr. | 568 | | | | | | | | | x |
| TAXACEAE | | | | | | | | | | |
| Taxus canadensis Marsh. | 567 | x | x | x | x | x | x | x | x | x |
| <u>MAGNOLIOPHYTA</u> | | | | | | | | | | |
| <u>MONOCOTYLEDONEAE</u> | | | | | | | | | | |
| ALISMATACEAE | | | | | | | | | | |
| Alisma triviale Pursh | W27 | x | x | x | | | | x | x | |
| Sagittaria cuneata Sheldon | W27 | x | x | x | x | | | x | x | x |
| S. graminea Michx. var. cristata (Engelm.) Bogin | W27 | | | x | | | | | | x |
| S. latifolia Willd. | W27 | x | x | x | x | x | x | x | x | x |
| S. rigida Pursh | W27 | x | | | | | | | | |
| ARACEAE | | | | | | | | | | |
| Acorus calamus L. | W47 | x | x | x | | | | x | x | x |
| Arisaema triphyllum (L.) Schott (A. atrorubens (Ait.) Blume) | 57 | x | | | | | | | | x |
| Calla palustris L. | W2347 | x | x | x | | | | x | x | x |
| Symplocarpus foetidus (L.) Nutt. | W57 | x | | | | | | x | | x |
| CYPERACEAE | | | | | | | | | | |
| Carex adusta Boott | D1678 | x | | x | | | | x | | x |
| C. aenea Fern. | D16789 | x | x | x | x | x | x | x | x | x |
| C. appalachica J. Webber & P.W. Ball | W17 | x | | | | | | | | |
| C. aquatilis Wahl. | W2347 | x | x | | x | x | x | x | x | x |
| C. arcta Boott | 367 | x | x | x | x | | | x | | |
| C. arctata Boott | 1567 | x | x | x | x | x | x | x | x | x |
| C. argyrantha Tuckerm. | D16 | x | x | x | | x | | x | | x |
| C. atratifomis Britt. | 678 | x | x | | x | x | | | | |
| C. aurea Nutt. | W147 | x | x | x | x | x | x | x | x | x |
| C. backii Boott | D68 | x | x | x | | x | | | | |
| C. bebbii Olney | W147 | x | x | x | x | | | | | x |
| C. brevior (Dewey) Mack. | D1789 | x | x | x | x | | | x | x | |

MONOCOTYLEDONEAE

CYPERACEAE (Cont'd)

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | | |
|--|--------------|--------------------------------|---|---|---|---|---|---|-----|---|
| | | W | T | N | S | P | K | M | L B | |
| <i>Carex brunnescens</i> (Pers.) Poir. | 35678 | x | x | x | x | | x | x | x | x |
| <i>C. buxbaumii</i> Wahl. | W1378 | x | x | x | x | x | x | x | x | x |
| <i>C. canescens</i> L. | W138 | x | x | x | x | x | x | x | x | x |
| <i>C. capillaris</i> L. | W1378 | x | x | x | x | x | x | x | x | x |
| <i>C. castanea</i> Wahl. | W134568 | x | x | x | x | x | x | x | | x |
| <i>C. chordorrhiza</i> L.f. | 3 | x | x | | x | | | | | |
| <i>C. communis</i> Bailey | 15678 | x | | | x | x | x | x | x | x |
| <i>C. comosa</i> Boott | W7 | | x | | | | | | | |
| <i>C. concinna</i> R.Br. | 1568 | | x | | | | x | | | |
| <i>C. crawei</i> Dewey | W7 | | x | | | | | | | |
| <i>C. crawfordii</i> Fern. | W1367 | x | x | x | x | x | x | x | x | x |
| <i>C. crinita</i> Lam. | W1567 | x | | | | x | x | x | x | x |
| <i>C. cristatella</i> Britt. | W167 | x | | x | | | x | x | | |
| <i>C. cryptolepis</i> Mack. | W1357 | x | x | x | x | | x | x | x | x |
| <i>C. cumulata</i> (Bailey) Mack. | W8 | | | | | | x | | | |
| <i>C. debilis</i> Michx. | M57 | x | | x | | | x | x | x | x |
| <i>C. deflexa</i> Hornem. | 1567 | x | x | x | x | x | x | x | x | x |
| <i>C. deweyana</i> Schwein. | 1567 | x | x | x | x | x | x | x | x | x |
| <i>C. diandra</i> Schrank | W37 | x | x | x | x | x | | x | x | |
| <i>C. disperma</i> Dewey | W13578 | x | x | x | x | x | x | x | x | x |
| <i>C. eburnea</i> Boott | 378 | x | x | x | x | x | x | x | x | x |
| <i>C. echinata</i> Murray (incl. <i>C. muricata</i> L., <i>C. angustior</i> Mack.) | W37 | | | | | x | x | | x | x |
| <i>C. exilis</i> Dewey | W36 | x | | | | | | | | |
| <i>C. festucacea</i> Schkuhr | D19 | | | x | x | | x | x | | |
| <i>C. flava</i> L. | W1357 | x | x | x | x | x | x | x | x | x |
| <i>C. garberi</i> Fern. | 478 | x | x | | x | x | | x | | |
| <i>C. gracillima</i> Schwein. | 14578 | x | x | x | | | | x | | |
| <i>C. granularis</i> Muhl. | W478 | x | x | x | | | | | | x |
| <i>C. gynandra</i> Schwein. | 2 | | | | | | | x | | |
| <i>C. gynocrates</i> Wormsk. | W37 | x | x | | x | x | x | | | x |
| <i>C. haydenii</i> Dewey | 5 | | x | | | | | | | |
| <i>C. houghtonii</i> Torr. | D147 | x | x | x | x | x | x | x | x | x |
| <i>C. hystericina</i> Muhl. | W1358 | x | x | x | x | x | x | | | x |
| <i>C. interior</i> Bailey | W1378 | x | x | x | x | x | x | x | | x |
| <i>C. intumescens</i> Rudge | W1357 | x | x | x | x | x | x | x | x | x |
| <i>C. lacustris</i> Willd. | W27 | x | x | x | | | | | | |
| <i>C. lanuginosa</i> Michx. | W237 | x | x | x | x | x | x | x | x | x |
| <i>C. lasiocarpa</i> Ehrh. | W237 | x | x | x | x | x | x | x | x | x |
| <i>C. laxiflora</i> Lam. (incl. <i>C. blanda</i> Dewey) | 1578 | x | x | x | x | x | | x | x | x |
| <i>C. lenticularis</i> Michx. | 1578 | x | x | x | x | x | x | x | x | x |
| + <i>C. leporina</i> L. | W134 | | | | | | | | | x |
| <i>C. leptalea</i> Wahl. | W37 | x | x | x | x | x | x | x | x | x |
| <i>C. leptonevia</i> Fern. | W13578 | x | x | x | | | | x | x | x |
| <i>C. limosa</i> L. | W37 | x | x | x | x | x | x | x | x | x |
| <i>C. livida</i> (Wahl.) Willd. | W37 | x | x | | x | x | | | | x |
| <i>C. loliacea</i> L. | 23 | x | x | | | | | | | |
| <i>C. magellanica</i> Lam. ssp. <i>irrigua</i> (Wahl.) Hult. (<i>C. paupercula</i> Michx.) | W1367 | x | x | x | x | x | x | x | x | x |
| <i>C. media</i> R.Br. (incl. <i>C. norvegica</i> Retz.) | 134578 | x | x | x | x | x | | x | | |
| <i>C. michauxiana</i> Boeckl. | W37 | x | x | x | x | x | | x | x | x |
| <i>C. normalis</i> Mack. | 6 | | x | | | | | | | x |
| <i>C. oligosperma</i> Michx. | W2347 | x | x | x | x | x | | x | x | x |

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | | |
|---|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>MONOCOTYLEDONEAE</u> | | | | | | | | | | |
| CYPERACEAE (Cont'd) | | | | | | | | | | |
| <i>Carex pallescens</i> L. | W146 | x | | | | | | x | | x |
| <i>C. pauciflora</i> Lightf. | W3 | x | x | x | x | x | | x | x | x |
| <i>C. peckii</i> Howe (<i>C. nigromarginata</i> Schwein.) | M578 | x | x | x | | x | | x | | |
| <i>C. pedunculata</i> Muhl. | M1568 | x | x | x | | | | x | | |
| <i>C. pennsylvanica</i> Lam. | D47 | | | | | | | | | x |
| <i>C. praticola</i> Rydb. | 7 | x | | | | | | | | |
| <i>C. projecta</i> Mack. | W167 | x | x | x | x | x | x | x | x | x |
| <i>C. pseudo-cyperus</i> L. | W27 | x | x | | x | | | | | |
| <i>C. retrorsa</i> Schwein. | W37 | x | x | x | x | x | x | x | x | x |
| <i>C. richardsonii</i> R.Br. | 6 | x | x | | | | | | | |
| <i>C. rossii</i> Boott | D8 | x | x | | | | | | | |
| <i>C. rostrata</i> Stokes | W137 | x | x | x | x | x | x | x | x | x |
| <i>C. saxatilis</i> L. | 7 | | | | | | | | | x |
| <i>C. scabrata</i> Schwein. | W7 | | | | | | | | x | x |
| <i>C. scirpoidea</i> Michx. | W78 | | x | x | x | x | | | x | |
| <i>C. scoparia</i> Schkuhr | W378 | x | x | x | | | | x | | x |
| <i>C. siccata</i> Dewey (<i>C. foenea</i> Willd.) | D14 | x | x | | | | | | | |
| <i>C. sprengelii</i> Dewey | 7 | x | | | | | | | | |
| <i>C. sterilis</i> Willd. (incl. <i>C. cephalantha</i> (Bailey) Bickn.) | W37 | x | x | x | | | | x | | x |
| <i>C. stipata</i> Muhl. | W1347 | x | x | x | x | x | x | x | x | x |
| <i>C. stricta</i> Lam. | W237 | x | x | x | x | | | x | | x |
| <i>C. supina</i> Wahl. ssp. <i>spaniocarpa</i> (Steud.) Hult. | 8 | x | | | | | | | | |
| <i>C. sychnocephala</i> Carey | W7 | | | | | | | x | | x |
| <i>C. tenera</i> Dewey | W1357 | x | x | x | x | x | | | | |
| <i>C. tenuiflora</i> Wahl. | W3 | x | x | x | x | x | | x | x | x |
| <i>C. tribuloides</i> Wahl. | W137 | x | x | x | x | x | | x | | |
| <i>C. trisperma</i> Dewey | W37 | x | x | x | x | x | x | x | x | x |
| <i>C. tuckermanii</i> Boott | W37 | x | | | | | | | | x |
| <i>C. umbellata</i> Schkuhr (incl. <i>C. abdita</i> Bickn., <i>C. tonsa</i> (Fern.) Bickn.) | D178 | x | x | x | x | x | x | x | | |
| <i>C. vaginata</i> Tausch | W37 | x | x | x | x | x | x | x | | |
| <i>C. vesicaria</i> L. | W1237 | x | x | x | | x | x | x | x | x |
| <i>C. viridula</i> Michx. | 12378 | x | x | x | x | x | x | x | x | x |
| <i>C. vulpinoidea</i> Michx. | 12378 | x | x | x | x | x | | x | | x |
| <i>C. wiegandii</i> Mack. | 3 | | | | | | | | | x |
| <i>Cladium mariscoides</i> (Muhl.) Torr. | W37 | x | | | | | | | | x |
| <i>Dulichium arundinaceum</i> (L.) Britt. | W37 | x | x | x | x | x | x | x | x | x |
| <i>Eleocharis acicularis</i> (L.) R. & S. | W237 | x | x | x | x | x | x | x | x | x |
| <i>E. compressa</i> Sulliv. | W78 | x | x | x | x | | | x | x | x |
| <i>E. erythropoda</i> Steud. (<i>E. calva</i> Torr.) | W7 | | | | | | | x | | |
| <i>E. intermedia</i> (Muhl.) Schultes | 3 | x | x | | | | | | | |
| <i>E. obtusa</i> (Willd.) Schultes | W17 | x | x | | | | | x | | x |
| <i>E. ovata</i> (Roth.) R. & S. | W17 | x | | | | | | | | x |
| <i>E. palustris</i> (L.) R. & S. | W27 | x | x | x | x | x | x | x | x | x |
| <i>E. quinqueflora</i> (Hartm.) Schwartz (<i>E. pauci-</i> <i>flora</i> (Lightf.) Link) | qs | | | | | | | | | |
| <i>E. smallii</i> Britt. | W137 | x | x | x | x | x | | x | | |
| <i>E. tenuis</i> (Willd.) Schultes (incl. <i>E. elliptica</i> Kunth, <i>E. nitida</i> Fern.) | W2347 | x | | | | | | x | | x |
| | W237 | x | x | x | | | | x | | x |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>MONOCOTYLEDONEAE</u> | | | | | | | | | | |
| CYPERACEAE (Cont'd) | | | | | | | | | | |
| Eriophorum angustifolium Honckeney | W37 | x | x | x | x | | x | x | x | x |
| E. brachyantherum Trautv. & May (E. opacum (Bjornstr.) Fern.) | W37 | | x | | | | x | | | x |
| E. chamissonis C.A.Meyer | W3 | x | | | | | | | | |
| E. gracile Koch | W37 | x | x | | x | | | | | |
| E. tenellum Nutt. | 3 | x | x | | x | x | | x | | x |
| E. vaginatum L. (E. spissum Fern.) | W3 | x | x | x | x | x | x | x | x | x |
| E. virginicum L. | W347 | x | | | | | x | x | x | x |
| E. viridi-carinatum (Engelm.) Fern. | 3 | x | x | x | x | x | | x | x | x |
| Rhynchospora alba (L.) Vahl. | W37 | x | x | x | x | x | x | x | x | x |
| R. fusca (L.) Ait.f. | W37 | x | | x | x | | | x | x | x |
| Scirpus atrovirens willd. | W127 | x | x | | | | | x | | x |
| S. cespitosus L. | W378 | x | x | x | x | x | x | x | x | x |
| S. clintonii Gray | 7 | | | | | | x | | | |
| S. cyperinus (L.) Kunth | W1247 | x | x | x | x | x | x | x | x | x |
| S. fluviatilis (Torr.) Gray | W7 | x | | | | | | | | |
| S. heterochaetus Chase | 2 | | | | x | | | x | | |
| S. hudsonianus (Michx.) Fern. | W134 | x | x | x | x | x | x | x | x | x |
| S. lacustris L. (S. acutus Muhl., S. validus Vahl) | W237 | x | x | x | x | | | x | x | x |
| S. microcarpus Presl (incl. S. rubrotinctus Fern.) | W347 | x | x | x | x | x | x | x | x | x |
| S. pungens Vahl (S. americanus Pers.) | 27 | | | | x | | | | | |
| S. subterminalis Torr. | 23 | | x | x | | | | x | | x |
| S. torreyi Olney | 23 | | x | x | | | | x | | x |
| ERIOCAULACEAE | | | | | | | | | | |
| Eriocaulon septangulare With. | W7 | x | x | x | | | | x | x | x |
| GRAMINEAE | | | | | | | | | | |
| X Agrohordeum macounii (Vasey) Lepage (Elymus macounii Vasey) | 78 | x | | | | x | | | | |
| + Agropyron pectiniforme R. & S. (A. cristatum auct. amer., non (L.) Gaertn.) | 19 | x | | | | | | | | |
| Agropyron psammophilum Gillett & Senn (A. dasystachyum (Hook.) Scribn. var. psammophilum (Gillett & Senn) E.G.Voss | 17 | | | | | | | x | | |
| + A. repens (L.) Beauv. | 146789 | x | x | x | x | x | x | x | x | x |
| A. smithii Rydb. | 148 | x | x | x | x | x | | x | | |
| A. trachycaulum (Link) Malte ex H.F.Lewis | 1478 | x | x | x | x | x | x | x | x | x |
| + Agrostis gigantea Roth (A. alba auct. amer, non L., A. stolonifera var. major (Gaudin) Farwell) | 147 | x | x | x | x | x | x | x | x | x |
| A. perennans (Walt.) Tuckerm. | 6789 | | x | x | | | | x | | x |
| A. scabra Willd. (A. hiemalis (Walt.) BSP) | 1789 | x | x | x | x | x | x | x | x | x |
| + A. stolonifera L. (A. palustris Huds.) | 147 | x | x | x | x | x | | | | x |
| Alopecurus aequalis Sobol. | W267 | x | x | x | x | x | x | x | | x |
| + A. pratensis L. | 14 | x | | | | | | | | |
| Ammophila breviligulata Fern. | 7 | | | | | x | x | x | x | x |
| Andropogon gerardii Vitman | 7 | x | | | | | | | | |
| A. scoparius Michx. | 7 | x | | | | | | | | |
| + Avena fatua L. | 19 | x | | | | | x | | x | x |
| + A. sativa L. | 19 | | | | | | | | | x |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B | |
| <u>MONOCOTYLEDONEAE</u> | | | | | | | | | | | |
| GRAMINEAE (Cont'd) | | | | | | | | | | | |
| Beckmannia syzigachne (Steud.) Fern. | W17 | x | x | x | x | x | | | | | |
| Brachyelytrum erectum (Schreb.) Fern. | 567 | x | x | | | | | x | x | x | |
| Bromus ciliatus L. (incl. B. dudleyi Fern.) | 15678 | x | x | x | x | x | x | x | x | x | x |
| + B. commutatus Schrad. | 19 | | | | | x | | x | | | |
| + B. erectus Huds. | 149 | | | | | | | | | x | |
| B. kalmii Gray | 7 | | x | | | | | | | | |
| + B. inermis Leyss. | 1479 | x | x | x | x | x | | x | x | x | |
| B. pumpellianus Scribn. | 17 | x | | | x | x | | | | | |
| + B. secalinus L. | 19 | | | | | x | | x | | | |
| Calamagrostis canadensis (Michx.) Nutt. | 14678 | x | x | x | x | x | x | x | x | x | x |
| + C. epigejos (L.) Roth | 19 | | | | | | | | | | x |
| C. inexpansa Gray | 78 | x | x | x | x | x | x | x | x | x | |
| C. purpurascens R.Br. | 8 | x | x | | | | | | | | |
| C. stricta (Timm) Koeler (C. neglecta Gaertn., Mey. & Scherb.) | 34 | | | | x | x | | | | | |
| Cinna latifolia (Trev.) Griseb. | 56 | x | x | x | x | x | x | x | x | x | x |
| + Dactylis glomerata L. | D17 | x | x | x | x | x | x | x | x | x | x |
| Danthonia spicata (L.) Beauv. | D678 | x | x | x | x | x | x | x | x | x | x |
| Deschampsia cespitosa (L.) Beauv. | W78 | x | x | x | x | x | x | x | x | x | x |
| D. flexuosa (L.) Trin. | D78 | x | x | x | x | x | x | x | x | x | x |
| + Digitaria ischaemum (Schreb.) Muhl. | 8 | x | | | | | | | | | |
| + Echinochloa crusgalli (L.) Beauv. | 17 | x | | | | | | | | | |
| E. microstachya (Wieg.) Rydb. | 17 | x | | | | | | | | | |
| E. wiegandii (Fassett) McNeill & Dore | 1 | x | | | | | | | | | x |
| Elymus canadensis L. | 678 | x | x | | x | x | | | | | x |
| E. glaucus Buckley | W67 | | | | x | | | | x | | x |
| E. hystrix L. (Hystrix patula Moench) | M56 | x | | | | | | | | | x |
| E. mollis Trin. | 7 | x | x | x | x | x | x | x | x | x | x |
| E. villosus Muhl. | 6 | | | | | | | | | | x |
| E. virginicus L. | W4678 | x | x | x | | | | | | | x |
| E. wiegandii Fern. | 46 | x | x | | | | | | | | x |
| + Festuca filiformis Pourret (F. tenuifolia Sibth., F. capillata Lam., F. ovina var. capillata (Lam.) Alef.) | 6 | x | | | | | | | | | |
| F. hallii (Vasey) Piper (F. scabrella Torr., F. altaica Trin. var. major (Vasey) Gl.) | 1 | x | | | | | | | | | |
| F. occidentalis Hook. | 8 | | | | | | | x | x | | x |
| + F. pratensis Huds. (F. elatior L.) | 147 | x | | x | | x | | x | | | |
| + F. rubra L. | 149 | x | x | x | x | x | x | x | x | x | x |
| F. saximontana Rydb. | 478 | x | x | x | x | x | x | x | x | x | x |
| F. trachyphylla (Hack.) Krajina (F. longifolia Thuill., F. ovina L. var. duriuscula (L.) W.D.J.Koch) | D48 | x | x | x | | | | | | | |
| Glyceria borealis (Nash) Batch. | W27 | x | x | x | x | x | x | x | x | x | x |
| G. canadensis (Michx.) Trin. | W27 | x | x | x | x | x | x | x | x | x | x |
| G. grandis S.Wats. | W127 | x | x | x | x | x | x | x | x | | x |
| G. X laxa (Scribn.) Scribn. | 3 | | | | | | | | | | x |
| G. striata (Lam.) Hitchc. | W12367 | x | x | x | x | x | x | x | x | x | x |
| Hierochloe odorata (L.) Beauv. | 7 | x | x | x | x | x | x | x | x | x | x |
| Hordeum jubatum L. | 146789 | x | x | x | x | x | | x | x | x | |
| + H. vulgare L. | 19 | x | | | | | | | | | |
| Koeleria macrantha (Ledeb.) Schultes | 14 | x | | | | | | | | | |

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|--|--------------|--------------------------------|---|---|---|---|---|---|-----|
| | | W | T | N | S | P | K | M | L B |
| <u>MONOCOTYLEDONEAE</u> | | | | | | | | | |
| GRAMINEAE (Cont'd) | | | | | | | | | |
| Leersia oryzoides (L.) Sw. | W17 | x | | | | | | | x |
| + Lolium perenne L. (incl. L. multiflorum Lam.) | 149 | x | x | | | | | x | x |
| L. persicum Boiss. & Hohen. ex Boiss. | 149 | x | x | x | | | | | |
| Melica smithii (Porter) Vasey | 5 | | | | | | | | x |
| Milium effusum L. | 57 | x | x | | x | x | x | x | x |
| Muhlenbergia frondosa (Poir.) Fern. | W167 | | x | | | | | | |
| M. glomerata (Willd.) Trin. | W348 | x | x | x | x | x | x | x | x |
| M. mexicana (L.) Trin. | W67 | x | x | x | x | x | x | x | x |
| M. racemosa (Michx.) BSP. | 1 | x | x | | x | | x | | |
| M. uniflora (Muhl.) Fern. | W37 | x | | x | x | | x | | x |
| Oryzopsis asperifolia Michx. | D568 | x | x | x | x | x | x | x | x |
| O. canadensis (Poir.) Torr. | D167 | | | | x | x | x | x | |
| O. pungens (Torr.) Hitchc. | D5678 | x | x | x | x | x | x | x | x |
| Panicum boreale Nash | D46 | | | | | | x | x | x |
| P. capillare L. | 149 | x | | | | | | | x |
| P. columbianum Scribn. var. siccanum (Hitchc. & Chase) Boivin (Dicanthelium sabulorum (Lam.) Gould & Clark | 78 | x | x | | | | | | x |
| P. depauperatum Muhl. | D14 | x | x | x | | | | | x |
| P. lanuginosum Ell. (incl. P. implicatum Scribn.) | D146 | | | | x | x | x | x | x |
| P. linearifolium Scribn. | D46 | x | | | | | | | |
| + P. miliaceum L. | 1 | x | | | | | | | |
| Panicum xanthophysum Gray | D8 | x | | | | | | | x |
| Phalaris arundinacea L. | W7 | x | x | x | x | x | x | x | x |
| + Phleum pratense L. | 1479 | x | x | x | x | x | x | x | x |
| Phragmites australis (Cav.) Trin. ex Steud. (P. communis Trin.) | W27 | x | x | x | | | | x | x |
| Poa alpina L. | 7 | | | | | x | | | |
| P. alsodes Gray | 58 | | x | | | | | | x |
| + P. annua L. | 19 | x | | x | x | x | x | x | x |
| P. canbyi (Scribn.) Howell | 8 | x | | | | | | | |
| + P. compressa L. | 14789 | x | x | x | x | x | x | x | x |
| P. glauca Vahl | 8 | x | x | x | x | | | | x |
| P. glaucantha Gaudin | 8 | x | x | | x | x | x | x | |
| P. interior Rydb. | 7 | x | x | | | | | | |
| P. languida Hitchc. | 567 | x | | | | | | x | x |
| P. palustris L. | W147 | x | x | x | x | x | x | x | x |
| P. pratensis L. | 146789 | x | x | x | x | x | x | x | x |
| P. saltuensis Fern. & Wieg. | 678 | x | | x | | | | x | x |
| Puccinellia distans (Jacq.) Pall. | 19 | x | | | | | | | |
| P. nuttalliana (Schultes) Hitchc. | W19 | x | | x | | | | | |
| Schizachne purpurascens (Torr.) Swallen | 568 | x | x | x | x | x | x | x | x |
| + Secale cereale L. | 1 | x | | | | | | | |
| + Setaria glauca (L.) Beauv. | 19 | x | | | | | | | |
| + S. viridis (L.) Beauv. | 19 | x | | | | | | | x |
| Sphenopholis intermedia (Rydb.) Rydb. | 78 | | x | x | x | x | | x | |
| Sporobolus neglectus Nash | 1 | x | | | | | | | |
| S. vaginiflorus (Torr.) Wood | 1 | x | | | | | | | |
| Stipa spartea Trin. | 7 | | | | | | | | x |
| Torreyochloa pallida (Torr.) Church | W27 | x | x | x | x | x | | x | x |

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|---|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B | |
| <u>MONOCOTYLEDONEAE</u> | | | | | | | | | | | |
| GRAMINEAE (Cont'd) | | | | | | | | | | | |
| Trisetum melicoides (Michx.) Vasey ex Scribn. | 78 | | x | | x | x | x | | | | x |
| T. triflorum (Bigel.) Vasey ssp. molle (Hult.) A. & D. Love (T. spicatum (L.) Richt. var. molle (Michx.) Beal | 78 | x | x | x | x | x | x | x | x | x | x |
| + Triticum aestivum L. | 19 | | | | | | | | | | |
| Zizania palustris L. | W27 | x | x | x | | | | | | x | |
| HYDROCHARITACEAE | | | | | | | | | | | |
| Elodea canadensis Michx. | W27 | x | x | x | x | x | | | | x | x |
| E. nuttallii (Planch.) St. John | W2 | | x | | | | | | | | |
| Vallisneria americana Michx. | W2 | x | x | x | | x | | x | | x | |
| IRIDACEAE | | | | | | | | | | | |
| + Iris pseudacorus L. | W | | | | | | | | | | x |
| I. versicolor L. | W2347 | x | x | x | x | x | x | x | x | x | x |
| Sisyrinchium montanum Greene (S. angusti- folium auct., non Mill.) | W178 | x | x | x | x | x | x | x | x | x | x |
| JUNCACEAE | | | | | | | | | | | |
| Juncus acuminatus Michx. | 3 | | | | | | | | | | x |
| J. alpinus Vill. | W178 | x | x | x | x | x | x | x | x | x | x |
| J. articulatus L. | W17 | x | x | x | x | | | | | | |
| J. balticus Willd. | W278 | x | x | x | x | x | x | x | x | x | x |
| J. brachycephalus (Engelm.) Buch. | W127 | x | x | x | | | | | | | x |
| J. brevicaudatus (Engelm.) Fern. | W1378 | x | x | x | x | x | x | x | x | x | x |
| J. bufonius L. | MW17 | x | x | x | x | x | | | x | x | x |
| J. canadensis J. Gay | W37 | x | | | | | | | | | x |
| J. dudleyi Wieg. | W17x | x | x | x | x | x | | | x | x | x |
| J. effusus L. | W17 | x | x | x | x | | | | x | x | x |
| J. filiformis L. | 17 | x | x | x | x | | | x | x | x | |
| J. greenii Oakes & Tuckerm. | W78 | x | | x | | | | x | | | x |
| J. nodosus L. | W137 | x | x | x | x | x | x | x | x | | x |
| J. pelocarpus E. Meyer | W7 | x | | x | | | | | x | x | x |
| J. subtilis E. Meyer | W7 | x | | | | | | | | | |
| J. tenuis Willd. | 1467 | x | x | x | x | x | | | x | x | x |
| Luzula acuminata Raf. | 5678 | x | | x | | | | | | x | |
| L. multiflora (Retz.) Lejeune (L. campestris (L.) DC.) | 1467 | x | | | | | | | | | |
| L. parviflora (Ehrh.) Desv. | 1567 | x | | x | x | x | x | x | x | | |
| JUNCAGINACEAE | | | | | | | | | | | |
| Scheuchzeria palustris L. | 3 | x | x | x | x | x | x | x | x | x | x |
| Triglochin maritima L. | 37 | x | x | x | | | | | x | x | x |
| T. palustris L. | W37 | x | x | | | | | x | x | x | |
| LEMNACEAE | | | | | | | | | | | |
| Lemna minor L. | W2 | x | x | | | | | | | | x |
| L. trisulca L. | W2 | | x | | | | | | | | |
| Spirodela polyrhiza (L.) Schleid. | W2 | x | | | | | | | | | |

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|--|--------------|--------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>MONOCOTYLDEONEAE</u> | | | | | | | | | | |
| LILIACEAE | | | | | | | | | | |
| Allium schoenoprasum L. | 178 | x | x | | x | x | x | x | x | |
| A. stellatum Fraser | D8 | | x | | | | | | | |
| A. tricoccum Ait. | 5 | | | | | | | | | x |
| + Asparagus officinalis L. | 9 | | x | | | | | | | |
| Clintonia borealis (Ait.) Raf. | 56 | x | x | x | x | x | x | x | x | x |
| Disporum trachycarpum (S.Wats.) B. & H. | 5 | | | | | | | | | |
| Erythronium americanum Ker | 5 | | | | | | | | x | x |
| Lilium michiganense Farw. (L. canadense var. umbellatum (Farw.) Boivin) | 5 | | | | | | | | | x |
| L. philadelphicum L. | 134578 | x | | x | x | x | x | x | x | x |
| Maianthemum canadense Desf. | 56 | x | x | x | x | x | x | x | x | x |
| Medeola virginiana L. | 5 | | | | | | | | | x |
| Polygonatum biflorum (Walt.) Ell. | 57 | | x | | | | | | | |
| P. pubescens (Willd.) Pursh | 5 | | | | | | | | | x |
| Smilacina racemosa (L.) Desf. | 567 | x | | x | x | | | | x | x |
| S. stellata (L.) Desf. | 567 | x | x | x | x | x | | | x | x |
| S. trifolia (L.) Desf. | 3 | x | x | x | x | x | x | x | x | x |
| Smilax lasioneura Hook. (S. herbacea L. var. lasioneura (Hook.) DC.) | 567 | | x | | | | | | | |
| Streptopus amplexifolius (L.) DC. | W5 | x | x | x | x | x | x | x | x | x |
| S. roseus Michx. | 56 | x | x | x | x | x | x | x | x | x |
| Tofieldia glutinosa (Michx.) Pers. | 3478 | x | x | x | x | x | x | x | x | x |
| T. pusilla (Michx.) Pers. | 8 | | x | | x | x | x | | | |
| Trillium cernuum L. | 56 | x | x | x | x | x | x | x | x | x |
| T. grandiflorum (Michx.) Salisb. | 5 | | | | | | | | | x |
| Uvularia grandiflora Sm. | 5 | | x | | | | | | | |
| U. sessilifolia L. | 5 | | x | | | | | | | |
| NAJADACEAE | | | | | | | | | | |
| Najas flexilis (Willd.) Rostk. & Schmidt | 2 | x | x | x | x | | | x | x | x |
| N. gracillima (A.Br.) Magnus | 2 | | x | | | | | | | |
| ORCHIDACEAE | | | | | | | | | | |
| Amerorchis rotundifolia (Pursh) Hult. (Orchis rotundifolia Banks ex Pursh) | 36 | x | x | x | | x | | | | |
| Arethusa bulbosa L. | 3 | x | | | x | | | | x | x |
| Calopogon tuberosus (L.) BSP. (C. pulchellus (Salisb.) R.Br.) | 3 | x | | | | | | | | x |
| Calypso bulbosa (L.) Oakes | 56 | x | x | x | | x | x | x | | |
| Coeloglossum viride (L.) Hartm. (Habenaria viridis (L.) R.Br.) | 56 | x | x | x | | | | | x | x |
| Corallorhiza maculata Raf. | 5 | x | x | x | x | x | x | x | x | x |
| C. striata Lindl. | 5 | x | x | x | | | | | x | x |
| C. trifida Chat. | 56 | x | x | x | x | x | x | x | x | x |
| Cypridium acaule Ait. | 358 | x | x | x | x | x | x | x | x | x |
| C. arietinum R.Br. | M56 | | x | | | | | | | |
| C. calceolus L. (incl. C. parviflorum Salisb. & C. pubescens Willd.) | 35 | x | x | x | | x | | | | x |
| C. passerinum Richards. | 6 | | | | | | x | x | | |
| C. reginae Walt. | 356 | | x | x | | | | | | |
| Goodyera oblongifolia Raf. | 5 | x | x | x | | | | x | x | x |
| G. pubescens (Willd.) R.Br. | 5 | | x | | | | | | | |
| G. repens (L.) R.Br. | 5 | x | x | x | x | x | x | x | x | x |
| G. tessellata Lodd. | 5 | x | x | x | x | x | x | x | x | x |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B | |
| <u>MONOCOTYLEDONEAE</u> | | | | | | | | | | | |
| ORCHIDACEAE (Cont'd) | | | | | | | | | | | |
| <i>Liparis loeselii</i> (L.) Rich. | W15 | x | x | | | | | | | x | x |
| <i>Listera auriculata</i> Wieg. | 357 | x | x | x | x | x | x | x | x | x | x |
| <i>L. borealis</i> Morong | 6 | | | | | x | x | | | | |
| <i>L. convallarioides</i> (Sw.) Torr. | 67 | | | x | x | | | x | | x | |
| <i>L. cordata</i> (L.) R.Br. | W35 | x | x | x | x | x | x | x | x | x | x |
| <i>L. X veltmanii</i> Case (<i>L. convallarioides</i> X <i>L. auriculata</i>) | 57 | | x | | | | | | x | | x |
| <i>Malaxis monophylla</i> (L.) Sw. (<i>M. brachypoda</i> (Gray) Fern.) | 37 | | x | | x | | | | x | x | x |
| <i>M. paludosa</i> (L.) Sw. | 36 | | x | | | | | | | | |
| <i>M. unifolia</i> Michx. | 36 | x | x | x | | x | | | x | | x |
| <i>Platanthera clavellata</i> (Michx.) Luer (<i>Habenaria clavellata</i> (Michx.) Spreng.) | M346 | x | | x | x | | | | x | x | x |
| <i>P. dilatata</i> (Pursh) Beck (<i>Habenaria</i> <i>dilatata</i> (Pursh) Hook.) | 3 | x | x | x | | x | | | x | x | x |
| <i>P. hookeri</i> (Torr.) Lindl. (<i>Habenaria</i> <i>hookeri</i> Torr.) | 56 | x | x | | | | | | | x | |
| <i>P. hyperborea</i> (L.) Lindl. (<i>Habenaria</i> <i>hyperborea</i> (L.) R.Br.) | W1346 | x | x | x | x | x | x | x | x | x | x |
| <i>P. lacera</i> (Michx.) G.Don (<i>Habenaria lacera</i> (Michx.) Lodd.) | M34 | x | | x | | | | | | | x |
| <i>P. obtusata</i> (Pursh) Lindl. (<i>Habenaria</i> <i>obtusata</i> (Pursh) Richards.) | W3567 | x | x | x | x | x | x | x | x | x | x |
| <i>P. orbiculata</i> (Pursh) Lindl. (<i>Habenaria</i> <i>orbiculata</i> (Pursh) Torr.) | 5 | x | x | x | x | x | x | x | x | x | x |
| <i>P. psycodes</i> (L.) Lindl. (<i>Habenaria psycodes</i> (L.) Spreng.) | 7 | x | | x | | x | x | x | x | x | x |
| <i>Pogonia ophioglossoides</i> (L.) Juss. | 3 | x | x | | | | | | x | x | x |
| <i>Spiranthes casei</i> Catling & Cruise | 7 | | | | | | | | | | x |
| <i>S. lacera</i> Raf. | 148 | x | | x | | x | | | | | x |
| <i>S. romanzoffiana</i> Cham. | W34 | x | x | x | x | x | x | x | x | x | x |
| POACEAE (see GRAMINEAE) | | | | | | | | | | | |
| PONTEDERIACEAE | | | | | | | | | | | |
| <i>Pontederia cordata</i> L. | 2 | x | | x | | | | | | | x |
| POTAMOGETONACEAE (see ZOSTERACEAE) | | | | | | | | | | | |
| SMILACACEAE (see LILIACEAE) | | | | | | | | | | | |
| SPARGANIACEAE | | | | | | | | | | | |
| <i>Sparganium americanum</i> Nutt. | W237 | x | | x | | | | x | | x | x |
| <i>S. angustifolium</i> Michx. | W27 | x | x | x | x | | | | x | x | |
| <i>S. chlorocarpum</i> Rydb. | W237 | x | x | x | x | | | x | x | x | x |
| <i>S. emersum</i> Rehmman var. <i>multipedunculatum</i> (Morong) Reveal | W237 | x | | x | | | | | | | |
| <i>S. eurycarpum</i> Engelm. | W237 | x | x | x | | | | | | | |
| <i>S. fluctuans</i> (Morong) Robins. | W27 | x | x | x | x | | | | | x | x |
| <i>S. minimum</i> (Hartm.) Fries | W237 | x | x | x | x | x | x | x | x | x | x |
| TYPHACEAE | | | | | | | | | | | |
| <i>Typha angustifolia</i> L. | W1347 | x | | x | x | | | | | | |
| <i>T. latifolia</i> L. | W1347 | x | x | x | x | x | x | x | x | x | x |

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|---|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>MONOCOTYLEDONEAE</u> | | | | | | | | | | |
| XYRIDACEAE | | | | | | | | | | |
| <i>Xyris montana</i> Ries | 3 | x | | | | | | | | x |
| ZANNICHELLIACEAE | | | | | | | | | | |
| <i>Zannichellia palustris</i> L. | W27 | | x | x | x | | | | | |
| ZOSTERACEAE | | | | | | | | | | |
| <i>Potamogeton alpinus</i> Balbis | 2 | x | x | x | x | x | x | x | x | x |
| <i>P. amplifolius</i> Tuckerm. | 2 | x | x | x | | | | x | x | x |
| <i>P. berchtoldii</i> Fieber | 2 | x | x | x | x | | | | | |
| <i>P. confervoides</i> Reichenb. | 2 | | | x | | x | | x | | |
| <i>P. epihydrus</i> Raf. | 2 | x | x | x | x | x | | x | x | x |
| <i>P. filiformis</i> Pers. | 2 | x | x | x | x | x | x | x | x | x |
| <i>P. foliosus</i> Raf. | 2 | x | x | x | | x | | x | x | |
| <i>P. friesii</i> Rupr. | 2 | | x | x | | | | x | | |
| <i>P. gramineus</i> L. | 27 | x | x | x | x | x | x | x | x | x |
| <i>P. illinoensis</i> Morong | 2 | | | | | | | | | x |
| <i>P. natans</i> L. | 2 | x | x | x | x | | | x | x | x |
| <i>P. nodosus</i> Poir. | 2 | x | | | | | | | | x |
| <i>P. oakesianus</i> Robbins | 2 | x | x | | | | | x | x | x |
| <i>P. obtusifolius</i> Mert. & Koch | 2 | x | x | x | x | x | x | x | x | x |
| <i>P. pectinatus</i> L. | 2 | x | x | x | | x | x | | | x |
| <i>P. perfoliatus</i> L. (incl. <i>P. richardsonii</i> (Ar.Benn.) Rydb.) | 27 | x | x | x | x | x | x | x | x | x |
| <i>P. praelongus</i> Wulfen | 2 | x | x | x | x | x | x | | x | x |
| <i>P. pusillus</i> L. | 2 | x | x | x | x | x | x | x | x | x |
| <i>P. robbinsii</i> Oakes | 2 | x | x | x | | x | | x | x | x |
| <i>P. spirillus</i> Tuckerm. | 2 | x | x | x | x | | | x | x | x |
| <i>P. strictifolius</i> Ar.Benn. | 2 | x | x | x | x | | | | | |
| <i>P. vaginatus</i> Turcz. | 2 | | | x | | | | | | |
| <i>P. zosteriformis</i> Fern. | 2 | x | x | x | | x | x | | | |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| ACERACEAE | | | | | | | | | | |
| <i>Acer negundo</i> L. | W79 | x | | | | | | | | x |
| <i>A. pensylvanicum</i> L. | M6 | | | | | | | | | x |
| <i>A. rubrum</i> L. | W5678 | x | x | | | | | x | x | x |
| <i>A. saccharum</i> Marsh. | M567 | x | | | | | | x | x | x |
| <i>A. spicatum</i> Lam. | M5678 | x | x | x | x | x | x | x | x | x |
| ADOXACEAE | | | | | | | | | | |
| <i>Adoxa moschatellina</i> L. | W56 | x | | | | | | | | |
| AIZOACEAE | | | | | | | | | | |
| + <i>Mollugo verticillata</i> L. | 1 | x | | | | | | | | |
| AMARANTHACEAE | | | | | | | | | | |
| + <i>Amaranthus albus</i> L. | 19 | x | | | | x | | | | |
| + <i>A. blitoides</i> S.Wats. | 19 | x | | | | | | | | |
| + <i>A. retroflexus</i> L. (incl. <i>A. powellii</i> S.Wats.) | 19 | x | | | | | | | | x |
| ANACARDIACEAE | | | | | | | | | | |
| <i>Rhus glabra</i> L. | 7 | x | x | | | | | | | x |
| <i>R. radicans</i> L. var. <i>rydbergii</i> (Small) Rehder | 678 | x | x | x | | | | | | x |

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|---|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|-----|
| | | W | T | N | S | P | K | M | L | B | |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | | |
| APIACEAE (see UMBELLIFERAE) | | | | | | | | | | | |
| APOCYNACEAE | | | | | | | | | | | |
| Apocynum androsaemifolium L. | D15678 | x | x | x | x | x | x | x | x | x | x |
| A. cannabinum L. | 16 | x | x | x | x | x | x | | | | x |
| A. sibiricum Jacq. (A. cannabinum var. hypericifolium (Ait.) Gray | 567 | x | x | | | | x | | | | |
| AQUIFOLIACEAE | | | | | | | | | | | |
| Ilex verticillata (L.) Gray | W357 | | | | | | | | | | x x |
| Nemopanthus mucronata (L.) Trel. | W357 | | | | | | | | | | x x |
| ARALIACEAE | | | | | | | | | | | |
| Aralia hispida Vent. | 167 | x | x | x | x | x | x | x | x | x | x |
| A. nudicaulis L. | M567 | x | x | x | x | x | x | x | x | x | x |
| A. racemosa L. | 156 | x | x | | | | | | | x | x |
| Oplopanax horridus (Sm.) Miq. | 56 | | x | | x | | | | | | |
| Panax trifolius L. | 56 | | | | | | | | | | x x |
| ARISTOLOCHIACEAE | | | | | | | | | | | |
| Asarum canadense L. | 567 | x | | x | | | | | | | |
| ASCLEPIADACEAE | | | | | | | | | | | |
| Asclepias incarnata L. | 7 | x | | | | | | | | | |
| A. syriaca L. | 7 | x | x | | | | | | | | x x |
| ASTERACEAE (see COMPOSITAE) | | | | | | | | | | | |
| BALSAMINACEAE | | | | | | | | | | | |
| Impatiens capensis Meerb. | 12367 | x | x | x | x | x | x | x | x | x | x |
| + I. glandulifera Royle | 127 | x | x | | | | | | | | |
| BERBERIDACEAE | | | | | | | | | | | |
| + Berberis thunbergii DC. | 1 | | | | | | | | | | x |
| Caulophyllum thalictroides (L.) Michx. | 5678 | x | | | | | | | | | x |
| BETULACEAE | | | | | | | | | | | |
| Alnus incana (L.) Moench ssp. rugosa (Du Roi) Clausen (A. rugosa (DuRoi) Spreng.) | 13467 | x | x | x | x | x | x | x | x | x | x |
| A. viridis (Chaix) DC. ssp. crispa (Ait.) Turrill (A. crispa (Ait.) Pursh) | 15678 | x | x | x | x | x | x | x | x | x | x |
| Betula lutea Michx.f. (B. allegheniensis Britt.) | 56 | x | | | | | | | | x | x |
| B. occidentalis Hook. (B. fontinalis Sarg.) | 67 | x | | | | | | | | | |
| B. papyrifera Marsh. | 145678 | x | x | x | x | x | x | x | x | x | x |
| B. pumila. (incl. B. glandulifera (Regel) Butler) | 234 | x | x | x | x | x | x | x | x | x | x |
| Corylus cornuta Marsh. | 14568 | x | x | x | x | x | x | x | x | x | x |
| Ostrya virginiana (Mill.) K.Koch | 6 | | | | | | | | | | x |
| BORAGINACEAE | | | | | | | | | | | |
| Cynoglossum boreale Fern. | 56 | x | | x | | | | | | | x |
| + C. officinale L. | 179 | | x | | | | | | | | x |
| + Echium vulgare L. | 179 | x | | x | x | x | | | | x | x |
| Hackelia deflexa (Wahl.) Opiz (H. americana (Gray) Fern.) | 18 | x | x | x | x | | | | | | x |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| BORAGINACEAE (Cont'd) | | | | | | | | | | |
| + <i>Lappula squarrosa</i> (Retz.) Dumort. (<i>L. echinata</i> Gilib.) | 149 | x | x | | x | x | | x | x | x |
| <i>Lithospermum canescens</i> (Michx.) Lehm. | 147 | x | | | | | | | | |
| <i>Mertensia paniculata</i> (Ait.) G. Don | 1567 | x | x | x | x | x | x | x | x | x |
| + <i>Myosotis arvensis</i> (L.) Hill | 6 | | | | | | | | | x |
| <i>M. laxa</i> Lehm. | 17 | x | | | | | | | | |
| + <i>M. scorpioides</i> L. | 1479 | x | | x | | | | x | | |
| + <i>M. sylvatica</i> Hoffm. | 179 | x | x | x | | | | | | |
| + <i>Plagiobothrys scouleri</i> (H. & A.) Johnston | W9 | x | | | | | | | | |
| BRASSICACEAE (see CRUCIFERAE) | | | | | | | | | | |
| CALLITRICHACEAE | | | | | | | | | | |
| <i>Callitriche hermaphroditica</i> L. | 2 | x | x | | | | | x | x | |
| <i>C. heterophylla</i> Pursh | 2 | x | | | | | | | x | x |
| <i>C. verna</i> L. (<i>C. palustris</i> L.) | 23 | x | x | x | x | x | x | x | x | x |
| CAMPANULACEAE | | | | | | | | | | |
| <i>Campanula aparinoides</i> Pursh (incl. <i>C. uliginosa</i> Rydb.) | 3467 | x | x | x | x | x | x | x | x | x |
| + <i>C. rapunculoides</i> L. | 19 | x | | | | | | | | |
| <i>C. rotundifolia</i> L. | 478 | x | x | x | x | x | x | x | x | x |
| CANNABINACEAE | | | | | | | | | | |
| <i>Humulus lupulus</i> L. (<i>H. americanus</i> Nutt.) | 67 | x | | | | | | | x | x |
| CAPRIFOLIACEAE | | | | | | | | | | |
| <i>Diervilla lonicera</i> Mill. | 567 | x | x | x | x | x | x | x | x | x |
| <i>Linnaea borealis</i> L. | 567 | x | x | x | x | x | x | x | x | x |
| <i>Lonicera canadensis</i> Bartr. ex Marsh. | 5678 | x | x | x | x | x | x | x | x | x |
| <i>L. dioica</i> L. | 1467 | x | x | x | x | x | x | x | | x |
| <i>L. hirsuta</i> Eat. | 15678 | x | x | x | x | | | | x | x |
| <i>L. involucrata</i> (Richards.) Banks | 4567 | x | x | x | x | x | x | x | | |
| <i>L. oblongifolia</i> (Goldie) Hook. | 345 | x | x | x | x | x | x | | | |
| + <i>L. tatarica</i> L. | 19 | x | | | | | | | | |
| <i>L. villosa</i> (Michx.) R. & S. | 367 | x | x | x | x | x | x | x | x | x |
| + <i>L. xylosteum</i> L. | 78 | x | | | | | | | | |
| <i>Sambucus canadensis</i> L. | 456 | | | | | | | | | x |
| <i>S. pubens</i> Michx. (<i>S. racemosa</i> L. var. <i>pubens</i> (Michx.) Koehne) | 45678 | x | x | x | x | x | x | x | x | x |
| <i>Symphoricarpos albus</i> (L.) Blake | 4678 | x | x | x | | x | | x | x | x |
| + <i>S. occidentalis</i> Hook. | 18 | x | x | | x | x | | | | x |
| <i>Triosteum perfoliatum</i> L. | 8 | | | | | | | | | x |
| <i>Viburnum cassinoides</i> L. | 36 | | | | | | | | | x |
| <i>V. edule</i> (Michx.) Raf. | 35678 | x | x | x | x | x | x | x | x | x |
| <i>V. lentago</i> L. | 7 | x | | | | | | | | |
| <i>V. rafinesquianum</i> Schultes | 679 | x | | | | | | | | |
| <i>V. trilobum</i> Marsh. (<i>V. opulus</i> L. var. <i>americanum</i> Ait.) | 567 | x | x | x | | | | x | x | x |
| CARYOPHYLLACEAE | | | | | | | | | | |
| <i>Arenaria humifusa</i> Wahl. | 48 | | x | | | | | | | |
| + <i>A. serpyllifolia</i> L. | 19 | x | x | x | | | | | x | x |
| <i>Cerastium alpinum</i> L. (incl. <i>C. beeringianum</i> <i>C. & S.</i>) | 7 | x | | x | | | | | | |
| <i>C. arvense</i> L. | 147 | | x | x | | | | | | x |
| + <i>C. fontanum</i> Baumg. (<i>C. vulgatum</i> L.) | 14567 | x | x | x | x | x | x | x | x | x |

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|---|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|---|--|
| | | W | T | N | S | P | K | M | L | B | | |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | | | |
| CARYOPHYLLACEAE (Cont'd) | | | | | | | | | | | | |
| <i>Cerastium nutans</i> Raf. | 78 | x | x | x | | | | | | | | |
| + <i>Dianthus armeria</i> L. | 19 | x | | | | | | x | x | x | | |
| + <i>D. barbatus</i> L. | 19 | | | x | | | | | | x | | |
| + <i>D. deltoides</i> L. | 89 | x | | | | | | | | | | |
| + <i>Lychnis chalcedonica</i> L. | 19 | x | | | x | | | | | | | |
| <i>Minuartia stricta</i> (Sw.) Hiern (<i>Arenaria stricta</i> Michx.) | 78 | | x | x | x | x | x | | | | x | |
| <i>Moehringia lateriflora</i> (L.) Fenzl (<i>Arenaria lateriflora</i> L.) | 4567 | x | | x | x | | | | x | | | |
| <i>M. macrophylla</i> (Hook.) Fenzl (<i>Arenaria macrophylla</i> Hook.) | 78 | x | x | | x | | | | x | | | |
| <i>Sagina nodosa</i> (L.) Fenzl | 78 | x | x | | x | x | x | x | x | x | x | |
| + <i>S. procumbens</i> L. | 1 | x | | | | | | | | | | |
| + <i>Saponaria officinalis</i> L. | 179 | x | | | | | | | | | | |
| <i>Silene antirrhina</i> L. | 167 | x | x | | | | | | | | x | |
| + <i>S. cserei</i> Baumg. | 1 | x | x | x | | | | | | | x | |
| + <i>S. noctiflora</i> L. | 14 | x | x | x | x | | | | x | | x | |
| + <i>S. pratensis</i> (Raf.) Godron & Gren. (<i>S. alba</i> (Mill.) Krause, <i>Lychnis alba</i> Mill.) | 1347 | x | x | x | | x | x | x | x | | | |
| + <i>S. vulgaris</i> (Moench) Garcke (<i>S. cucubalus</i> Wibel) | 14 | x | x | x | x | x | x | x | x | x | x | |
| + <i>Spergula arvensis</i> L. | 14 | x | x | | | | | | x | | x | |
| <i>Stellaria calycantha</i> (Ledeb.) Bong. | 137 | x | x | x | x | x | x | x | x | x | x | |
| + <i>S. graminea</i> L. | 1679 | x | | x | x | x | x | x | x | x | x | |
| <i>S. longifolia</i> Muhl. ex Willd. | 1567 | x | x | x | x | x | | | x | | x | |
| <i>S. longipes</i> Goldie | 5678 | x | x | x | x | x | | | x | | | |
| + <i>S. media</i> (L.) Vill. | 19 | x | | | | | | | x | | x | |
| + <i>Vaccaria pyramidalis</i> Medik. (<i>Saponaria vaccaria</i> L.) | 179 | x | | | | | | | | | | |
| CELASTRACEAE | | | | | | | | | | | | |
| <i>Celastrus scandens</i> L. | 78 | x | | | | | | | | x | x | |
| CERATOPHYLLACEAE | | | | | | | | | | | | |
| <i>Ceratophyllum demersum</i> L. | 3 | x | | | | | | | | | | |
| <i>C. echinatum</i> Gray | 3 | x | | | | | | | | | | |
| CHENOPODIACEAE | | | | | | | | | | | | |
| + <i>Atriplex hortensis</i> L. | 1 | x | | | | | | | | | | |
| + <i>A. patula</i> L. var. <i>hastata</i> (L.) Gray | 1 | x | | | | | | | | | | |
| + <i>Axyris amaranthoides</i> L. | 179 | x | | x | x | x | | | x | | | |
| + <i>Chenopodium album</i> L. (incl. <i>C. berlandieri</i> Moq. ssp. <i>zschackei</i> (Murr.) Zobel) | 179 | x | x | x | x | | | x | | | x | |
| <i>C. capitatum</i> (L.) Aschers. | 189 | x | x | x | | | | | x | | x | |
| <i>C. gigantospermum</i> Aellen (<i>C. hybridum</i> auctt.) | 179 | x | | | x | | | | | | x | |
| + <i>C. glaucum</i> L. | 19 | x | | | | | | | | | x | |
| + <i>C. leptophyllum</i> (Moq.) Wats. | 1 | x | x | | | | | | | | | |
| + <i>C. murale</i> L. | 19 | x | | | | | | | | | | |
| + <i>C. polyspermum</i> L. | 19 | x | | | | | | | | | x | |
| <i>C. rubrum</i> L. | 19 | x | | | | | | | | | | |
| + <i>C. strictum</i> Roth var. <i>glaucophyllum</i> (Aellen) Wahl | 1 | x | | | | | | | | | | |
| <i>Corispermum hyssopifolium</i> L. | 19 | x | | | x | x | | | | | | |
| <i>C. nitidum</i> Kit. | 19 | x | | | | x | | | | | | |

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | | |
|---|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| CHENOPODIACEAE (Cont'd) | | | | | | | | | | |
| + <i>Kochia scoparia</i> (L.) Schrad. | 19 | x | | | | | | | | |
| + <i>Salsola kali</i> L. var. <i>tenuifolia</i> Tausch (<i>S. pestifer</i> Nelson) | 179 | x | x | | x | x | | | | x |
| CISTACEAE | | | | | | | | | | |
| <i>Helianthemum canadense</i> (L.) Michx. | 6 | | | | | | | | | x |
| <i>Hudsonia tomentosa</i> Nutt. | 7 | x | | | | x | x | x | x | x |
| CLUSIACEAE (see HYPERICACEAE) | | | | | | | | | | |
| COMPOSITAE | | | | | | | | | | |
| <i>Achillea millefolium</i> L. (incl. <i>A. lanulosa</i> Nutt.) | 14679 | x | x | x | x | x | x | x | x | x |
| + <i>A. ptarmica</i> L. | 1 | x | | | | | | | | |
| <i>Adenocaulon bicolor</i> Hook. | 6 | | | | | | | | | x |
| <i>Ambrosia artemisiifolia</i> L. | 179 | x | | | x | | | | | x |
| <i>A. psilostachya</i> DC. | 179 | x | | | x | x | | | | |
| <i>A. trifida</i> L. | 19 | x | | | x | x | | | x | x |
| <i>Anaphalis margaritacea</i> (L.) Clarke | 14679 | x | x | x | x | x | x | x | x | x |
| <i>Antennaria neglecta</i> Greene (incl. <i>A. camp-</i> <i>estris</i> Rydb., <i>A. canadensis</i> Greene, <i>A. neodioica</i> Greene, <i>A. petaloidea</i> Fern., <i>A. rupicola</i> Fern.) | 16789 | x | x | x | x | | | x | x | x |
| <i>A. parlinii</i> Fern. | 78 | x | x | | | | | | | |
| <i>A. parvifolia</i> Nutt. (<i>A. aprica</i> Greene) | 7 | | x | | | | | | | |
| <i>A. plantaginifolia</i> (L.) Hook. (incl. <i>A.</i> <i>fallax</i> Greene, <i>A. munda</i> Fern.) | 678 | | x | | x | | | | | x |
| <i>A. rosea</i> Greene (incl. <i>A. microphylla</i> Rydb., <i>A. subviscosa</i> Fern.) | 8 | x | x | | x | | | | | |
| + <i>Anthemis cotula</i> L. | 16 | x | | | | | | | | x |
| + <i>A. tinctoria</i> L. | 9 | x | | | | | | | | |
| + <i>Arctium lappa</i> L. | 1 | | | | x | | | | | |
| + <i>A. minus</i> (Hill) Bernh. | 169 | x | | x | | | | | x | x |
| <i>Arnica angustifolia</i> Vahl ssp. <i>lonchophylla</i> (Greene) Douglas & Ruyle-Douglas (<i>A.</i> <i>lonchophylla</i> Greene) | 8 | x | x | | | | | | | |
| <i>A. cordifolia</i> Hook. (incl. <i>A. whitneyi</i> Fern.) | 56 | | x | | | | | | | |
| + <i>Artemisia absinthium</i> L. | 4 | x | | | | | | | | |
| + <i>A. biennis</i> Willd. | 189 | x | | x | | x | | x | | x |
| <i>A. campestris</i> L. (incl. <i>A. canadensis</i> Michx. & <i>A. caudata</i> Michx.) | 78 | x | x | x | x | x | x | x | x | x |
| + <i>A. frigida</i> Willd. | 18 | x | x | | x | | | | | |
| <i>A. ludoviciana</i> Nutt. | 147 | x | x | | x | x | | x | | x |
| + <i>A. vulgaris</i> L. | 179 | x | | x | | | | | | x |
| + <i>Aster brachyactis</i> Blake | 147 | x | | | | | | | | |
| <i>A. ciliolatus</i> Lindl. (<i>A. lindleyanus</i> T. & G.) | 145678 | x | x | x | x | x | x | x | x | x |
| <i>A. ericoides</i> L. (incl. <i>A. pansus</i> (Blake) Cronq.) | 169 | x | x | | | | | | | |
| <i>A. hesperius</i> Gray | 1467 | x | | x | | | | | | x |
| <i>A. junciformis</i> Rydb. (<i>A. borealis</i> (T. & G.) Provancher) | 34 | x | x | x | x | | x | | x | x |
| <i>A. laevis</i> L. | 178 | x | | | | | | | | x |
| <i>A. lanceolatus</i> Willd. (<i>A. simplex</i> Willd., <i>A. paniculatus</i> Lam.) | 137 | x | | x | x | x | x | x | x | x |

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | | |
|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| COMPOSITAE (Cont'd) | | | | | | | | | | |
| Aster lateriflorus (L.) Britt. | 167 | x | x | x | x | | x | x | x | x |
| A. macrophyllus L. | 56 | x | x | x | x | x | x | x | x | x |
| A. modestus Lindl. | 1467 | x | x | x | x | | x | x | | |
| A. nemoralis Ait. | 345 | | | | | | | x | x | x |
| A. prealtus Poir. | 46 | x | | | | | | | | |
| A. puniceus L. (inc. A. lucidulus (Gray) Wieg.) | 13467 | x | x | x | x | x | x | x | x | x |
| A. tradescantii L. | 149 | | | | | | | | | x |
| A. umbellatus Mill. | 134679 | x | x | x | x | x | x | x | x | x |
| Bidens beckii Torr. (Megalodonta beckii (Torr.) Greene) | 23 | x | x | x | | | | x | | x |
| B. cernua L. | 137 | x | x | x | x | | | | x | x |
| B. frondosa L. (incl. B. vulgata Greene) | 145 | x | | | | | | x | | x |
| + B. tripartita L. (incl. b. connata Muhl.) | 37 | x | | | | | | | | |
| + Centaurea jacea L. | 19 | x | | | | | | | | |
| + C. maculosa Lam. | 1 | | | | | | | | x | |
| + C. pratensis Thuill. | 9 | x | | | | | | | | |
| + Chrysanthemum leucanthemum L. | 1679 | x | x | x | x | x | | x | x | x |
| + Cichorium intybus L. | 149 | x | x | x | x | | | | x | x |
| + Cirsium arvense (L.) Scop. | 1469 | x | x | x | x | x | x | x | x | x |
| C. drummondii T. & G. | 149 | x | | | | | | | | |
| C. flodmanii (Rydb.) Arthur | 17 | x | | | | x | | | | |
| C. muticum Michx. | 13469 | x | x | x | x | | | x | x | x |
| C. pitcheri (Eat.) T. & G. | 7 | | | | | | | x | | |
| + C. vulgare (Savi) Tenore | 19 | x | x | | x | | | | | x |
| Coreopsis lanceolata L. | 18 | | | | | | | | x | x |
| + Crepis tectorum L. | 149 | x | x | | | | | | | |
| Erechtites hieracifolia (L.) Raf. | 67 | | | | | x | | | | |
| Erigeron acris L. var. asteroides (Andrz.) DC. (E. angulosus Gaudin var. kamtschaticus (DC.) Hara) | 178 | x | x | x | x | x | | x | | x |
| E. annuus (L.) Pers. | 169 | x | | | | | | | x | x |
| E. canadensis L. (Conyza canadensis (L.) Cronq.) | 14679 | x | x | x | x | x | | x | x | x |
| E. hyssopifolius Michx. | 478 | x | | x | x | x | x | x | x | x |
| E. lonchophyllus Hook. | 1 | x | | | | | | | | |
| E. philadelphicus L. | 14679 | x | x | x | x | x | x | x | x | x |
| E. strigosus Muhl. (E. ramosus (Walt.) BSP.) | 14679 | x | x | x | | x | x | x | | x |
| Eupatorium maculatum L. (E. purpureum L. var. maculatum (L.) Darl.) | 347 | x | | x | | x | x | x | x | x |
| E. perfoliatum L. | 137 | x | x | x | | | | | x | x |
| + Gaillardia aristata Pursh (G. pulchella Foug.) | 14 | | | | x | x | | | | |
| + Galinsoga quadriradiata Ruiz & Pavon (G. ciliata (Raf.) Blake) | 19 | x | | | | | | | | |
| Gnaphalium uliginosum L. | 1347 | x | | | x | | x | x | | x |
| G. viscosum HBK. (G. macounii Greene) | 147 | x | x | x | x | | | x | x | x |
| + Grindelia squarrosa (Pursh) Dunal | 14 | x | x | | | | | | | x |
| + Helenium flexuosum Raf. (H. nudiflorum Nutt.) | 7 | | | | | | | | | x |
| + Helianthus annuus L. | 134 | x | | x | x | | | | | |
| H. giganteus L. (incl. var. subtuberosus (Bourg.) Britt.) | 14 | x | | x | x | x | | x | x | |
| H. laetiflorus Pers. (H. rhomboideus Rydb.) | 14 | x | x | | x | | | x | | |
| + H. maximiliani Schrad. | 147 | x | x | | | | | | x | |
| + H. tuberosus L. | 1 | x | | | | | | | | |

DICOTYLEDONEAE

| | Habitat Code | Subdivision (W-E) | | | | | | | | |
|---|-----------------|-------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| COMPOSITAE (Cont'd) | | | | | | | | | | |
| <i>Heliopsis helianthoides</i> (L.) Sweet | 14 | x | x | x | | | | | | |
| <i>Heterotheca villosa</i> (Pursh) Shinnars (<i>Chrysopsis villosa</i> (Pursh) Nutt.) | 1 | x | x | | | | | | | |
| + <i>Hieracium aurantiacum</i> L. | 1479 | x | x | x | | | | x | x | x |
| + <i>H. caespitosum</i> Dum. (<i>H. pratense</i> Tausch) | 1479 | x | | | | | | x | x | x |
| <i>H. canadense</i> Michx. (incl. <i>H. kalmii</i> auct., non L.) | 1478 | x | x | x | x | | | x | x | x |
| + <i>H. pilosella</i> L. | 19 | x | | | | | | | | |
| + <i>H. piloselloides</i> Vill. (<i>H. florentinum</i> All., <i>H. floribundum</i> Wimm. & Grab.) | 1479 | x | x | x | | | | x | x | x |
| <i>H. scabriusculum</i> Schwein. (<i>H. umbellatum</i> L.) | 14679 | x | x | x | | | | x | x | x |
| <i>H. scabrum</i> Michx. | 145678 | x | x | x | x | x | x | x | x | x |
| <i>H. venosum</i> L. var. <i>nudicaule</i> (Michx.) Farw. | 6 | | | | | | | | | x |
| + <i>H. vulgatum</i> Fries | 15 | x | | | | | | x | | x |
| + <i>Hypochoeris radicata</i> L. | 1 | | | | | | | | | x |
| + <i>Iva xanthifolia</i> Nutt. | 19 | x | | | | | | | | |
| <i>Lactuca biennis</i> (Moench) Fern. | 123 | x | x | x | x | | | x | x | x |
| <i>L. canadensis</i> L. | 1479 | x | | x | x | | | | | x |
| <i>L. pulchella</i> (Pursh) DC. (<i>L. tatarica</i> (L.) Meyer ssp. <i>pulchella</i> (Pursh) Stebbins) | 1 | x | | | | | x | | | |
| + <i>L. saligna</i> L. | 68 | | | | | | | | | x |
| + <i>Matricaria matricarioides</i> (Less.) Porter | 1679 | x | x | x | x | | | x | x | x |
| + <i>M. perforata</i> Merat (<i>M. maritima</i> ssp. <i>inodora</i> (L.) Clapham) | 1 | x | | | | | | | | |
| <i>Petasites frigidus</i> (L.) Fries (incl. var. <i>nivalis</i> (Greene) Cronq. & var. <i>palmaris</i> (Ait.) Cronq.) | 13479 | x | x | x | x | x | x | x | x | x |
| <i>P. sagittatus</i> (Banks) Gray | 13 | x | x | | | | | | | |
| + <i>Picris hieracioides</i> L. | 14 | | | | | | | | x | |
| <i>Prenanthes alba</i> L. | 1468 | x | x | x | | x | x | | | x |
| <i>P. racemosa</i> Michx. | 37 | x | | | | x | x | x | x | x |
| <i>Rudbeckia hirta</i> L. (<i>R. serotina</i> Ait.) | 146 | x | x | x | x | x | | x | x | x |
| <i>R. laciniata</i> L. | 19 | x | | | | | | | | x |
| <i>Senecio aureus</i> L. | 347 | x | | | x | x | x | x | x | x |
| <i>S. congestus</i> (R.Br.) DC. | 7 | x | | x | | | | | | |
| <i>S. eremophilus</i> Richards. | 8 | x | | | | | | | | |
| <i>S. indecorus</i> Greene | 134 | x | x | x | x | x | x | x | | |
| <i>S. integerrimus</i> Nutt. | 34 | | | | | | | | x | |
| + <i>S. jacobea</i> L. | 1 | x | | | | | | | | |
| <i>S. pauciflorus</i> Pursh | 48 | | x | x | x | | | x | x | x |
| <i>S. pauperculus</i> Michx. (incl. <i>S. plattensis</i> Nutt.) | 478 | x | x | x | x | x | x | x | x | x |
| + <i>S. viscosus</i> L. | 1 | x | | | | | | | | |
| + <i>S. vulgaris</i> L. | 19 | x | | | | | | | | x |
| <i>Solidago caesia</i> L. | 56 | | | | | | | | x | |
| <i>S. canadensis</i> L. (incl. <i>S. altissima</i> L. & <i>S. gilvocanescens</i> (Rydb.) Smyth) | 1478 | x | x | x | x | x | x | x | x | x |
| <i>S. gigantea</i> Ait. | 1347 | x | | x | | | | x | x | |
| <i>S. glutinosa</i> Nutt. (incl. ssp. <i>randii</i> (Porter) Cronq. var. <i>ontarioensis</i> Ringius) | 78 | x | x | x | x | | | x | x | x |
| <i>S. graminifolia</i> (L.) Salisb. | 1347 | x | x | x | x | x | x | x | x | x |
| <i>S. hispida</i> Muhl. | 1478 | x | x | x | x | x | x | x | x | x |
| <i>S. juncea</i> Ait. | 178 | x | x | x | | x | | x | x | x |
| <i>S. macrophylla</i> Pursh | 1345 | | | | | | | x | x | x |
| <i>S. missouriensis</i> Nutt. | 14 | x | x | | | | | | | x |

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | |
|---|-----------------|-----------------------------------|---|---|---|---|---|---|-------|
| | | W | T | N | S | P | K | M | L B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | |
| COMPOSITAE (Cont') | | | | | | | | | |
| Solidago nemoralis Ait. | 145678 | x | x | x | x | | | | x |
| S. ptarmicoides (Nees) Boivin (Aster ptarmicoides (Nees) T. & G.) | 14678 | x | x | x | x | x | x | x | x |
| S. rigida L. | | x | | | | | | | |
| S. rugosa Ait. | 1356 | | | | | | | | x x |
| S. uliginosa Nutt. (incl. S. purshii Porter) | 34 | x | x | x | x | x | x | x | x x |
| + Sonchus asper (L.) Hill | 13679 | x | x | | x | x | | | x x |
| + S. uliginosus Bieb. (incl. S. arvensis L.) | 147 | x | x | x | x | | x | x | x |
| Tanacetum huronense Nutt. | 7 | | | | | | | | x |
| + T. vulgare L. | 79 | x | x | | | | | | x |
| Taraxacum ceratophorum (Ledeb.) DC. (incl. T. dumetorum Greene) | 19 | | x | | x | | | | |
| + T. laevigatum (Willd.) DC. (T. erythro- spermum Andrz.) | 8 | | x | | | | | | |
| + T. officinale Weber | 15789 | x | x | x | x | | x | x | x |
| + Tragopogon dubius Scop. (T. major Jacq.) | 14 | x | | | | | | x | |
| Xanthium strumarium L. | | | | | | | | | |
| CONVOLVULACEAE | | | | | | | | | |
| Convolvulus sepium L. | 17 | x | | | | | | | x |
| C. spithameus L. | 178 | x | x | x | | x | | | x |
| Cuscuta cephalanthii Engelm. | 3 | x | | | | | | | |
| C. gronovii Willd. | 7 | x | | | | | | | |
| CORNACEAE | | | | | | | | | |
| Cornus alternifolia L.f. | 5678 | x | x | | | x | | x | x x x |
| C. canadensis L. | 567 | x | x | x | x | x | x | x | x x x |
| C. rugosa Lam. | 678 | x | x | x | x | x | | | x x |
| C. stolonifera Michx. | 135678 | x | x | x | x | x | x | x | x x x |
| CRASSULACEAE | | | | | | | | | |
| + Sedum acre L. | 178 | x | | | | | | | |
| + S. aizoon L. | 18 | x | | | | | | | |
| + S. purpureum (L.) Schultes (S. telephium var. purpureum L.) | 14 | x | | | | | | | x |
| CRUCIFERAE | | | | | | | | | |
| Arabis divaricarpa Nels. | 678 | x | x | x | x | x | x | x | x x |
| A. drummondii Gray | 1 | | | | | x | | | |
| A. glabra (L.) Bernh. | 1578 | x | x | x | x | | x | x | x x |
| A. hirsuta (L.) Scop. var. pycnocarpa (Hopkins) Rollins | 678 | x | x | x | x | x | | x | x x x |
| A. holboellii Hornem. (A. retrofracta Graham) | 8 | x | x | x | | x | | | x |
| A. lyrata L. | 678 | | x | | x | x | x | x | x |
| + Armoracia rusticana Gaertn., Mey. & Scherb. (A. lapathifolia Gilib.) | 9 | x | | | | | | | |
| Barbarea orthoceras Ledeb. | 1357 | x | x | | x | x | x | x | x |
| + B. vulgaris R.Br. | 1467 | x | x | x | | x | x | x | x x |
| + Berteroa incana (L.) DC. | 1 | x | | x | x | | | x | |
| + Brassica juncea (L.) Czern. | 1 | x | | x | x | | | x | |
| + B. rapa L. (B. campestris pro parte) | 149 | x | | | | | | | x |
| + Camelina microcarpa Andrz. | 19 | x | | | | | | | |
| + C. sativa (L.) Crantz | 179 | x | | | x | | | | |

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | | | |
|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B | |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | | |
| CRUCIFERAE (Cont'd) | | | | | | | | | | | |
| + <i>Capsella bursa-pastoris</i> (L.) Medik. | 179 | x | x | x | x | x | | x | x | x | |
| <i>Cardamine parviflora</i> L. | 1379 | x | x | x | x | | | x | x | x | |
| <i>C. pennsylvanica</i> Muhl. | 1379 | x | x | x | x | x | x | | | x | |
| <i>C. pratensis</i> L. | W35 | x | | x | | | | | | | |
| + <i>Conringia orientalis</i> (L.) Dumort. | 19 | x | | x | x | | | | | | |
| <i>Dentaria diphylla</i> Michx. | 156 | | | | | | | | x | x | x |
| <i>Descurainia richardsonii</i> (Sweet) O.E.Schulz | 18 | x | x | x | | | | | x | x | x |
| + <i>D. sophia</i> (L.) Webb | 1 | x | x | | | | | | | | |
| <i>Draba aurea</i> Vahl (incl. <i>D. minganensis</i> (Vict.) Fern.) | 8 | | | x | | | | | | | |
| <i>D. cana</i> Rydb. (<i>D. lanceolata</i> auct. amer., non Royle) | 8 | | x | x | x | | | | | | |
| <i>D. glabella</i> Pursh (incl. <i>D. arabisans</i> Michx., <i>D. hirta</i> L.) | 8 | x | x | x | x | x | x | x | x | x | x |
| <i>D. nemurosa</i> L. | 148 | | x | x | x | | | x | | | |
| + <i>Erucastrum gallicum</i> (Willd.) O.E.Schulz | 19 | x | | | | | | | | | x |
| + <i>Erysimum cheiranthoides</i> L. | 1 | x | x | x | x | | | x | | x | x |
| + <i>E. hieracifolium</i> L. | 1 | x | | | | | | | | | |
| <i>E. inconspicuum</i> (Wats.) MacM. | 148 | x | x | x | x | x | | | | x | |
| + <i>Hesperis matronalis</i> L. | 9 | x | | | | | | | | | x |
| + <i>Lepidium campestre</i> (L.) R.Br. | 14 | x | | x | | | | | x | | x |
| + <i>L. densiflorum</i> Schrad. | 14789 | x | x | x | x | x | | | x | x | x |
| + <i>Neslia paniculata</i> (L.) Desv. | 19 | x | x | x | | | | x | | x | x |
| <i>Rorippa palustris</i> (L.) Besser | 134569 | x | x | x | x | x | x | x | x | x | x |
| + <i>Sinapis arvensis</i> L. (<i>Brassica kaber</i> (DC.) Wheeler) | 16 | x | x | x | x | | | | x | | x |
| + <i>Sisymbrium altissimum</i> L. | 149 | x | | x | x | x | | | x | | |
| + <i>S. loeselii</i> L. | 19 | x | | | | | | | | | |
| <i>Subularia aquatica</i> L. | 27 | x | | | x | | | | | | x |
| + <i>Thlaspi arvensis</i> L. | 1479 | x | x | x | x | x | x | x | x | x | x |
| CUCURBITACEAE | | | | | | | | | | | |
| <i>Echinocystis lobata</i> (Michx.) T. & G. | 67 | | x | | | | | | | | |
| DIPSACEAE | | | | | | | | | | | |
| + <i>Knautia arvensis</i> (L.) Coult. | 14 | | x | | | | | | | | |
| DROSERACEAE | | | | | | | | | | | |
| <i>Drosera anglica</i> Huds. | 3 | x | x | | x | | | | | | x |
| <i>D. intermedia</i> Hayne | 3 | x | x | x | x | x | x | x | x | x | x |
| <i>D. linearis</i> Goldie | 3 | x | | | x | x | | | x | | |
| <i>D. rotundifolia</i> L. | 347 | x | x | x | x | x | x | x | x | x | x |
| ELAEAGNACEAE | | | | | | | | | | | |
| <i>Elaeagnus commutata</i> Bernh. | 78 | x | x | x | | | | x | x | | |
| <i>Shepherdia canadensis</i> (L.) Nutt. | 167 | x | x | x | x | x | x | | | | x |
| EMPETRACEAE | | | | | | | | | | | |
| <i>Empetrum nigrum</i> L. | 78 | x | x | x | x | x | x | x | x | x | x |
| ERICACEAE | | | | | | | | | | | |
| <i>Andromeda glaucophylla</i> Link | 378 | x | x | x | x | x | x | x | x | x | x |
| <i>Arctostaphylos uva-ursi</i> (L.) Spreng. | 678 | x | x | x | x | x | x | x | x | x | x |
| <i>Chamaedaphne calyculata</i> (L.) Moench | 37 | x | x | x | x | x | x | x | x | x | x |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B | |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | | |
| ERICACEAE (Cont'd) | | | | | | | | | | | |
| Epigaea repens L. | 5678 | x | x | x | x | x | x | x | x | x | x |
| Gaultheria hispidula (L.) Muhl. (Chiogenes hispidula (L.) T. & G.) | 356 | x | x | x | x | x | x | x | x | x | x |
| G. procumbens L. | 578 | x | | x | x | | x | x | x | x | |
| Gaylussacia baccata (Wang.) K.Koch | 456 | | | | | | | | | | x |
| Kalmia angustifolia L. | 3 | | | | | | | | | | x |
| K. polifolia Wang. | 13 | x | x | x | x | x | x | x | x | x | x |
| Ledum groenlandicum Oeder | 3567 | x | x | x | x | x | x | x | x | x | x |
| Oxycoccus macrocarpus (Ait.) Pers. (Vaccinium macrocarpon Ait.) | 37 | x | | | | | | x | x | x | x |
| O. quadripetalus Gilib. (Vaccinium oxycoccus L.) | 356 | x | x | x | x | x | | | x | x | x |
| Vaccinium angustifolium Ait. (incl. V. brittonii Porter, V. lamarckii Camp) | 4567 | x | x | x | x | x | x | x | x | x | x |
| V. cespitosum Michx. | 678 | x | x | x | x | x | | | x | x | |
| V. membranaceum Dougl. ex Torr. | 5 | | | | | | | | | x | |
| V. myrtilloides Michx. | 345678 | x | x | x | x | x | x | x | x | x | x |
| V. ovalifolium Sm. | 78 | | | | | | | | | x | x |
| V. uliginosum L. | 78 | x | x | x | x | x | x | x | | | |
| V. vitis-idaea L. | 378 | x | x | x | x | x | x | | | | |
| EUPHORBIACEAE | | | | | | | | | | | |
| + Euphorbia cyparissias L. | 19 | x | | | | | | | | | |
| + E. esula L. | 17 | x | | x | | | | | | | |
| E. glyptosperma Engelm. | 19 | x | x | | x | | | | | | |
| + E. serpyllifolia Pers. | 1 | | | | | | | | | x | |
| FABIACEAE (see LEGUMINOSAE) | | | | | | | | | | | |
| FAGACEAE | | | | | | | | | | | |
| Quercus macrocarpa Michx. | 67 | x | | | | | | | | | |
| Q. rubra L. (Q. borealis Michx.f.) | 67 | | | | | | | | | x | x |
| FUMARIACEAE | | | | | | | | | | | |
| Adlumia fungosa (Ait.) Greene | 168 | x | x | x | | | | | | x | x |
| Corydalis aurea Willd. | 1678 | x | x | x | x | | | | | x | x |
| C. sempervirens (L.) Pers. | 156789 | x | x | x | x | x | x | x | x | x | x |
| Dicentra cucullaria (L.) Bernh. | 56 | | | | | | | | | x | x |
| GENTIANACEAE | | | | | | | | | | | |
| Gentiana andrewsii Griseb. | 7 | x | | | | | | | | | |
| G. linearis Froel. (incl. G. rubricaulis Schwein.) | 178 | x | x | x | x | x | x | x | x | x | x |
| Gentianella amarella (L.) Borner | 147 | x | | | x | x | | | | x | |
| G. detonsa (Rottb.) G.Don | 18 | x | | | | | | | | | |
| Halenia deflexa (Sm.) Griseb. | 56789 | x | x | x | x | x | x | x | x | x | x |
| Menyanthes trifoliata L. | 237 | x | x | x | x | x | x | x | x | x | x |
| GERANIACEAE | | | | | | | | | | | |
| + Erodium cicutarium (L.) L'Hér. | 1 | x | | | | | | | | | |
| Geranium bicknellii Britt. | 146789 | x | x | x | x | x | x | x | x | x | x |
| G. carolinianum L. | 8 | | | | | | | | | x | |
| G. robertianum L. | 68 | | | | | | | | | | x |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| GROSSULARIACEAE (see SAXIFRAGACEAE) | | | | | | | | | | |
| HALORAGACEAE | | | | | | | | | | |
| Myriophyllum alterniflorum DC. | 2 | x | x | x | x | | x | x | x | x |
| M. farwellii Morong | 2 | x | | x | | | | | x | |
| M. sibiricum Kom. (M.exalbescens Fern.) | 2 | x | x | x | x | | x | x | x | |
| M. tenellum Bigel. | 27 | | | | | | | | | x |
| M. verticillatum L. | 2 | x | x | x | | | | | | x |
| HIPPURIDACEAE | | | | | | | | | | |
| Hippuris vulgaris L. | 237 | x | x | x | x | x | x | x | x | x |
| HYDROPHYLLACEAE | | | | | | | | | | |
| Phacelia franklinii (R.Br.) Gray | 1679 | x | x | x | x | | | | | |
| HYPERICACEAE | | | | | | | | | | |
| Hypericum boreale (Britt.) Bickn. | 467 | x | x | x | x | x | x | x | x | x |
| H. canadense L. | 137 | x | | | x | | | | x | x |
| H. ellipticum Hook. | 1347 | x | | x | x | x | x | x | x | x |
| H. majus (Gray) Britt. | 47 | x | x | x | x | x | x | x | x | x |
| H. mutilum L. | 7 | x | | | | | | | | |
| + H. perforatum L. | 14679 | x | | x | | | | | x | x |
| Triadenum fraseri (Spach) Gl. (Hypericum virginicum L. var. fraseri (Spach) Fern.) | 137 | x | x | x | x | x | x | x | x | x |
| LABIATAE | | | | | | | | | | |
| Agastache foeniculum (Pursh) Ktze. | 1467 | x | | x | | | | | | x |
| Dracocephalum formosius (Lunell) Rydb. (Physostegia formosior Lunell) | 7 | x | | | | | | | | |
| D. virginianum L. (Physostegia virginiana (L.) Benth.) | 7 | x | | | | | | | | |
| + Galeopsis tetrahit L. | 1479 | x | x | x | x | x | x | x | x | x |
| + Glechoma hederacea L. | 147 | x | x | | | | | | x | x |
| + Leonurus cardiaca L. | 19 | x | | | | | | | | |
| Lycopus americanus Muhl. | 1479 | x | x | x | x | x | x | x | x | x |
| L. asper Greene | 17 | x | | | | | | | | |
| L. uniflorus Michx. | 1347 | x | x | x | x | x | x | x | x | x |
| Mentha arvensis L. | 13467 | x | x | x | x | x | x | x | x | x |
| Moldavica parviflora (Nutt.) Britt. (Draco- cephalum parviflorum Nutt.) | 179 | x | x | x | x | x | | | | x |
| + Monarda didyma L. | 4 | | | | | | | | | x |
| M. fistulosa L. | 147 | x | | | | | | | | x |
| + Nepeta cataria L. | 179 | x | x | | | | | | | |
| Prunella vulgaris L. | 134679 | x | x | x | x | x | x | x | x | x |
| Satureja vulgaris (L.) Fritsch | 146789 | x | x | | | | | | x | x |
| Scutellaria epilobiifolia A.Hamilton (S. galericulata L.) | 13467 | x | x | x | x | x | x | x | x | x |
| S. lateriflora L. | 1678 | x | x | x | x | x | x | x | x | x |
| Stachys palustris L. | 1456789 | x | x | x | x | x | | | | x |
| LAMIACEAE (see LABIATAE) | | | | | | | | | | |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B | |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | | |
| LEGUMINOSAE | | | | | | | | | | | |
| Amphicarpa bracteata (L.) Fern. | 7 | x | | | | | | | | | |
| Astragalus adsurgens Pall. var. robustior Hook. (A. striatus Nutt.) | 1 | x | | | | | | | | | |
| A. alpinus L. | 8 | | x | | | | | | | x | |
| A. canadensis L. | 17 | x | x | x | | x | | | | | |
| + Coronilla varia L. | 19 | x | x | | | | | | | | |
| Desmodium glutinosum (Muhl. ex Willd.) Wood | 6 | | | x | | | | | | | |
| Hedysarum alpinum L. | 78 | x | x | x | x | x | x | | | | |
| Lathyrus japonicus Willd. | 7 | x | x | x | x | x | x | x | x | x | |
| L. ochroleucus Hook. | 16 | x | x | x | x | x | x | x | | x | |
| L. palustris L. | 17 | | x | x | x | x | x | x | x | | |
| L. venosus Muhl. | 1456 | x | | | | x | | | | | |
| + Lotus corniculatus L. | 19 | x | | | | | | | x | | x |
| + Lupinus polyphyllus Lindl. | 19 | x | | x | | | | | | | |
| + Medicago falcata L. | 19 | x | | | | | | | | | |
| + M. lupulina L. | 147 | x | x | x | x | x | | | x | x | x |
| + M. sativa L. | 149 | x | x | | | x | x | | | x | |
| + Melilotus alba Desr. | 19 | x | x | x | | | | | | x | |
| + M. officinalis (L.) Lam. | 19 | x | x | x | x | x | | | | x | |
| Oxytropis campestris (L.) DC. var. johannensis Fern. | 8 | x | | | | | | | | | |
| O. splendens Dougl. | 8 | | x | | | | | x | | | |
| O. viscida Nutt. ex Torr. & Gray (O. ixodes Butters & Abbe; O. leucantha (Pallas) Pers. var. gaspensis (Fern. & Kels.) Boivin | 78 | x | | | | | | | | | |
| + Trifolium arvense L. | 1 | x | | | | | | | | | |
| + T. aureum Poll. (T. agrarium L.) | 14 | x | x | x | x | x | x | x | x | x | |
| + T. campestre Schreb. (T. procumbens L.) | 19 | x | | | | | | | | | |
| + T. hybridum L. | 149 | x | x | x | x | x | x | x | x | x | x |
| + T. pratense L. | 149 | x | x | x | x | x | x | x | x | x | x |
| + T. repens L. | 1479 | x | x | x | x | x | x | x | x | x | x |
| Vicia americana Muhl. | 15679 | x | x | x | x | x | x | x | x | | x |
| + V. cracca L. | 1479 | x | x | x | x | x | x | x | x | x | x |
| + V. tetrasperma (L.) Moench | 1479 | x | | | | | | | | | x |
| LENTIBULRIACEAE | | | | | | | | | | | |
| Pinguicula vulgaris L. | 378 | x | x | x | x | x | x | x | x | x | x |
| Utricularia cornuta Michx. | 37 | x | x | x | x | x | x | x | x | x | x |
| U. intermedia Hayne | 237 | x | x | x | x | x | x | x | x | x | x |
| U. minor L. | 237 | | x | x | | | | x | x | x | x |
| U. ochroleuca Hartm. | 3 | x | | | | | | | | | |
| U. purpurea Walt. | 2 | | | | | | | | | | x |
| U. resupinata B.D.Greene | 37 | x | | | | | | | | | x |
| U. vulgaris L. | 237 | x | x | x | x | x | x | x | x | x | x |
| LIMNANTHACEAE | | | | | | | | | | | |
| Floerkea proserpinacoides Willd. | 2 | | | | | | | | | | x |
| LINACEAE | | | | | | | | | | | |
| + Linum perenne L. | 19 | x | | | | | | | | | |
| + L. usitatissimum L. | 1 | x | | | | | | | | | |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| LOBELIACEAE | | | | | | | | | | |
| <i>Lobelia dortmanna</i> L. | 127 | x | | | | | | x | x | x |
| <i>L. kalmii</i> L. | 1234678 | x | x | x | x | x | x | x | x | x |
| LORANTHACEAE | | | | | | | | | | |
| <i>Arceuthobium pusillum</i> Peck | 56 | | | | | | | | | x |
| LYTHRACEAE | | | | | | | | | | |
| + <i>Lythrum salicaria</i> L. | 17 | x | | | | | | | | |
| MALVACEAE | | | | | | | | | | |
| + <i>Malva rotundifolia</i> L. (<i>M. neglecta</i> auct. amer., non Wallr.; <i>M. pusilla</i> Sm.) | 19 | x | | | | | | | | |
| MYRICACEAE | | | | | | | | | | |
| <i>Comptonia peregrina</i> (L.) Coult. | 156 | x | | | | | | x | | x |
| <i>Myrica gale</i> L. | 1567 | x | x | x | x | x | x | x | x | x |
| NYCTAGINACEAE | | | | | | | | | | |
| + <i>Mirabilis hirsuta</i> (Pursh) MacM. | 17 | x | | | | | | | | |
| NYMPHAEACEAE | | | | | | | | | | |
| <i>Brasenia schreberi</i> Gmel. | 2 | x | | x | | | | | | x |
| <i>Nuphar microphyllum</i> (Pers.) Fern. | 2 | x | x | x | | | | x | | |
| <i>N. X rubrodiscum</i> Morong. | 2 | | x | | | | | x | | |
| <i>N. variegatum</i> Engelm. | 27 | x | x | x | x | x | x | x | x | x |
| <i>Nymphaea odorata</i> Ait. | 2 | x | | x | x | | | x | x | x |
| <i>N. tetragona</i> Georgi | 2 | x | | x | | | | x | | |
| OLEACEAE | | | | | | | | | | |
| <i>Fraxinus americana</i> L. | 8 | | | | | | | | | x |
| <i>F. nigra</i> Marsh. | 14567 | x | x | x | x | | | x | x | x |
| <i>F. pennsylvanica</i> Marsh. | 19 | x | | | | | | x | | x |
| ONAGRACEAE | | | | | | | | | | |
| <i>Circaea alpina</i> L. | 567 | x | x | x | x | x | x | x | x | x |
| <i>C. lutetiana</i> L. ssp. <i>canadensis</i> (L.) Asch. & Magnus (<i>C. quadrisulcata</i> (Maxim.) Franch. & Sav. var. <i>canadensis</i> (L.) Hara) | 56 | x | | | | | | | | x |
| <i>Epilobium angustifolium</i> L. | 456789 | x | x | x | x | x | x | x | x | x |
| <i>E. ciliatum</i> Raf. (inc. <i>E. adenocaulon</i> Haussk., <i>E. glandulosum</i> Lehm.) | 34567 | x | x | x | x | x | x | x | x | x |
| <i>E. leptophyllum</i> Raf. | 35 | x | x | x | | x | | x | | x |
| <i>E. palustre</i> | | | | | | x | x | | x | x |
| <i>E. parviflorum</i> Schreber | 3 | x | | | | | | | | |
| <i>Oenothera biennis</i> L. | 145678 | x | x | x | x | x | x | x | x | x |
| <i>O. nuttallii</i> Sweet | 1 | | | | | | | x | | |
| <i>O. parviflora</i> L. (incl. <i>O. muricata</i> L.) | 156789 | x | x | x | x | x | | x | | x |
| <i>O. perennis</i> L. (<i>O. chrysantha</i> Michx., <i>O.</i> <i>pumila</i> L.) | 467 | x | x | x | x | | | x | x | x |
| <i>O. pilosella</i> Raf. | 1 | | | | | | | | | x |
| OROBANCHACEAE | | | | | | | | | | |
| <i>Conopholis americana</i> (L.) Wallr. | 56 | | | | | | | | | x |

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|---|-----------------|-----------------------------------|---|---|---|---|---|---|-----|
| | | W | T | N | S | P | K | M | L B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | |
| OXALIDACEAE | | | | | | | | | |
| Oxalis fontana Bunge (O. europaea Jord.) | 1 | x | | | | | | x | x |
| O. montana Raf. (O. acetosella L.) | 5678 | | | | x | x | | x | x |
| PAPAVERACEAE | | | | | | | | | |
| Sanguinaria canadensis L. | 56 | x | | | | | | x | x |
| PLANTAGINACEAE | | | | | | | | | |
| Littorella americana Fern. | 2 | x | | x | x | | | | |
| + Plantago lanceolata L. | 1 | | | | | x | | x | x |
| + P. major L. | 1 | x | x | x | x | x | x | x | x |
| + P. media L. | 14 | x | | | | | | | |
| POLEMONIACEAE | | | | | | | | | |
| + Collomia linearis Nutt. | 19 | x | x | x | x | x | x | x | x |
| + Phlox subulata L. | 19 | | | | | | | x | |
| POLYGALACEAE | | | | | | | | | |
| Polygala paucifolia Willd. | 567 | x | x | x | x | x | x | x | x |
| P. senega L. | 456 | x | | | | | | | |
| POLYGONACEAE | | | | | | | | | |
| Polygonella articulata (L.) Meisn. | 7 | | | | | | | | x |
| Polygonum amphibium L. (incl. P. natans (Michx.) Eat., P. coccineum Muhl.) | 1234567 | x | x | x | x | x | x | x | x |
| + P. arenastrum Boreau | 1 | x | | | | | | | |
| + P. aviculare L. | 1345679 | x | x | x | x | x | | x | x |
| P. cilinode Michx. | 15678 | x | x | x | x | x | x | x | x |
| P. coccineum Muhl. | 4567 | x | x | | | x | x | | |
| + P. convolvulus L. | 1347 | x | x | x | x | x | | x | x |
| P. douglasii Greene | 178 | | x | | x | | | | x |
| P. erectum L. (incl. P. achoreum Blake) | 167 | x | x | x | x | | | x | |
| P. hydropiper L. | 367 | x | | x | | x | | x | x |
| P. lapathifolium L. | 14679 | x | x | x | x | | | x | x |
| P. pennsylvanicum L. | 1 | x | | | | | | | |
| + P. persicaria L. | 17 | x | x | | x | x | | x | x |
| P. punctatum Ell. | 179 | | x | | | | | | x |
| P. ramosissimum Michx. | 1 | x | | | | | | | |
| P. sagittatum L. | 1345 | x | x | | | | | x | x |
| + P. scabrum Moench | 179 | x | x | | x | | | x | x |
| P. viviparum L. | 178 | x | x | x | x | x | x | x | x |
| + Rumex acetosa L. | 1 | | | x | | | | | |
| + R. acetosella L. | 1679 | x | x | x | x | x | x | x | x |
| + R. crispus L. | 13567 | x | x | x | x | x | | x | x |
| + R. maritimus L. | 137 | x | x | | x | | | | |
| + R. obtusifolius L. | 147 | | x | | | | | x | x |
| R. orbiculatus Gray | 13479 | x | x | x | x | | | | |
| + R. pseudonatronatus Borbas | 1 | x | | | | | | | |
| + R. stenophyllus Ledeb. | 1 | x | | | | | | | |
| R. triangulivalvis (Danser) Rech.f. (R. mexicanus Meisn.) | 1379 | x | x | x | x | x | | x | x |

| | Habitat Code | Geographical Subdivision (W-E) | | | | | | | | |
|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| PORTULACACEAE | | | | | | | | | | |
| Claytonia caroliniana Michx. | 567 | x | | | x | x | x | | x | |
| C. virginica L. | 6 | x | | | | | | | | |
| + Portulaca oleracea L. | 1 | | | | | | | | x | |
| PRIMULACEAE | | | | | | | | | | |
| Lysimachia terrestris (L.) BSP. | 1347 | x | x | x | x | x | x | x | x | x |
| L. thyrsoflora L. | 12347 | x | x | x | x | x | x | x | | |
| Primula mistassinica Michx. | 34567 | x | x | x | x | x | x | x | x | x |
| Steironema ciliatum (L.) Raf. (Lysimachia ciliata L.) | 147 | x | | | | x | x | | | |
| Trientalis borealis Raf. | 13456789 | x | x | x | x | x | x | x | x | x |
| PYROLACEAE | | | | | | | | | | |
| Chimaphila umbellata (L.) Barton | 3567 | x | x | x | x | | x | x | x | x |
| Hypopitys monotropa Crantz. (Monotropa hypopithys L.) | 35678 | x | x | x | | x | x | | | x |
| Moneses uniflora (L.) Gray | 3567 | x | x | x | x | x | x | x | x | x |
| Monotropa uniflora L. | 567 | x | x | x | x | x | x | x | x | x |
| Orthilia secunda (L.) House (Pyrola secunda L.) | 345678 | x | x | x | x | x | x | x | x | x |
| Pterospora andromedea Nutt. | 56 | | | | | | | | | x |
| Pyrola asarifolia Michx. | 5678 | x | x | x | x | x | x | x | x | x |
| P. chlorantha Swartz (P. virens Schweigg.) | 45678 | x | x | x | x | x | x | x | x | x |
| P. elliptica Nutt. | 45678 | x | x | x | x | | x | x | x | x |
| P. grandiflora Radius | 348 | | | | | x | | | | |
| P. minor L. | 3567 | x | x | x | x | x | x | x | x | |
| P. rotundifolia L. | 56 | | | | | | | | x | x |
| RANUNCULACEAE | | | | | | | | | | |
| + Aconitum variegatum L. | 9 | x | | | | | | | | |
| Actaea pachypoda Ell. | 56 | | | | | | | | x | x |
| A. rubra (Ait.) Willd. | 3567 | x | x | x | x | x | x | x | x | x |
| Anemone canadensis L. | 4567 | x | x | x | x | x | x | x | x | x |
| A. multifida Poir. | 678 | | x | x | x | x | | | | |
| A. parviflora Michx. | 7 | | | | x | x | | | | |
| A. quinquefolia L. | 5678 | x | | x | x | x | x | x | x | x |
| A. riparia Fern. | 45678 | x | x | x | | x | | x | | |
| A. virginiana L. | 7 | | | | | x | | | | |
| Aquilegia canadensis L. | 45678 | x | x | x | | x | | x | | |
| Caltha palustris L. | 23467 | x | x | x | x | x | x | x | x | x |
| Clematis occidentalis (Hornem.) DC. (C. verticillaris DC.) | 5678 | x | x | x | | | | x | x | |
| C. virginiana L. | 5678 | x | | | | | | x | x | x |
| Coptis trifolia L. ssp. groenlandica (Oeder) Hult. | 34567 | x | x | x | x | x | | x | x | x |
| Hepatica americana (DC.) Ker | 567 | x | x | | | | | | | x |
| Ranunculus abortivus L. | 567 | x | | x | x | | x | x | | x |
| + R. acris L. | 14679 | x | x | x | x | x | x | x | x | x |
| R. cymbalaria Pursh | 7 | x | x | | | | | | | |
| R. gmelinii DC. | 2 | x | x | x | | | | | | |
| R. hispidus Michx. var. caricetorum (Greene) T. Duncan (R. septentrionalis Poir.) | 134567 | x | x | x | x | | x | x | | x |
| R. lapponicus L. | 356 | x | x | x | x | | | | | |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| RANUNCULACEAE (Cont'd) | | | | | | | | | | |
| Ranunculus longirostris Godr. (incl R. circinatus Sibth., R. subrigidus W.B.Drew) | 2 | x | x | x | | | | | | |
| R. macounii Britt. | 34567 | x | x | x | | | | | | x |
| R. pensylvanicus L.f. | 23567 | x | x | x | x | x | x | x | x | x |
| R. recurvatus Poir. | 67 | | | | | | | | | x |
| + R. repens L. | 2467 | | x | | | | | | x | x |
| R. reptans L. (incl. R. flammula L.) | 378 | x | x | x | x | x | x | x | x | x |
| R. sceleratus L. | 134 | x | x | | | | | | | |
| R. septentrionalis Poir. | 14567 | x | x | x | x | | x | x | | x |
| R. trichophyllus Chaix (R. aquatilis L.) | 2 | x | x | x | x | | x | | | |
| Thalictrum dasycarpum Fisch. & Lall. | 47 | x | x | x | x | | x | x | | x |
| T. dioicum L. | 45678 | x | | | | | | | | x |
| T. pubescens Pursh (T. polygamum Muhl.) | 34567 | x | x | x | x | x | x | x | x | x |
| T. venulosum Trel. var. confine (Fern.) Boivin | 45678 | x | x | | x | x | x | x | | |
| RHAMNACEAE | | | | | | | | | | |
| Ceanothus herbaceus Raf. (C. ovatus Desf.) | 16 | x | | | | | | | | |
| Rhamnus alnifolius L'Hér. | 134567 | x | x | x | x | x | x | x | x | x |
| ROSACEAE | | | | | | | | | | |
| Agrimonia gryposepala Wallr. | 5 | x | | | | | | | x | x |
| A. striata Michx. | 1378 | x | x | | | | | x | x | x |
| Amelanchier alnifolia Nutt. | 14567 | x | x | x | x | | | x | x | x |
| A. arborea (Michx.f.) Fern. | 6 | | | | | | | | | x |
| A. bartramiana (Tausch) M.Roemer | 145678 | x | x | x | x | x | x | x | x | x |
| A. humilis Wieg. | 456 | x | x | x | x | | x | | | |
| A. laevis Wieg. | 567 | x | x | x | x | | x | x | x | x |
| A. sanguinea (Pursh) DC. | 45678 | x | x | x | x | x | x | x | x | x |
| A. stolonifera Wieg. (incl. A. spicata auct. amer., non K.Koch) | 1678 | x | x | | x | x | x | | | |
| Aronia melanocarpa (Michx.) Ell. (incl. A. prunifolia (Marsh.) Rehd., Pyrus floribunda Lindl.) | 3567 | x | | | | | | | | x |
| Crataegus chrysocarpa Ashe (C. rotundifolia Moench) | 14 | x | | | x | | | | x | x |
| C. douglasii Lindl. | 7 | x | x | x | x | | | x | x | x |
| C. macrantha Lodd. | 47 | x | | | | | | | | x |
| Dryas drummondii Richards. | 8 | | | | x | | | x | | |
| D. integrifolia Vahl | 8 | | | | x | | | | | |
| Fragaria vesca L. | 178 | x | x | x | x | x | | | | x |
| F. virginiana Duchesne | 1456789 | x | x | x | x | x | x | x | x | x |
| Geum aleppicum Jacq. (incl. G. strictum Ait.) | 467 | x | x | x | x | x | x | x | x | x |
| G. canadense Jacq. | 48 | | | | | | | | | x |
| G. macrophyllum Willd. (incl. G. X pulchrum Fern.) | 478 | x | x | x | x | x | x | x | x | x |
| G. rivale L. | 23456 | x | x | x | x | x | x | x | x | x |
| + Malus pumila Mill. (Pyrus malus L.) | 9 | | | | | | | | | x |
| Physocarpus opulifolius (L.) Maxim. | 178 | x | x | x | x | x | x | x | x | x |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B | |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | | |
| ROSACEAE (Cont'd) | | | | | | | | | | | |
| Potentilla anserina L. | 78 | x | x | x | x | x | x | x | x | x | x |
| + P. argentea L. | 457 | x | x | x | x | x | | | | x | x |
| P. arguta Pursh | 145678 | x | x | x | x | | x | | | | x |
| P. canadensis L. (incl. P. simplex Michx.) | 4 | | | | | | | | | | x |
| P. fruticosa L. | 13456789 | x | x | x | x | x | x | x | x | x | x |
| P. gracilis Dougl. ex Hook. | 478 | x | x | | | | | | | | |
| P. hippiana Lehm. | 7 | | x | | | | | | | | |
| + P. intermedia L. | 14 | | | x | | | | | | | x |
| P. multifida L. | 78 | | x | x | | | | | | | |
| P. norvegica L. | 13456789 | x | x | x | x | x | x | x | x | x | x |
| P. palustris (L.) Scop. | 124567 | x | x | x | x | x | x | x | x | x | x |
| P. pennsylvanica L. (incl. P. pectinata Raf.) | 178 | x | x | | x | | x | x | x | | |
| + P. recta L. | 4678 | x | x | x | | | | | x | | x |
| P. rivalis Nutt. | 1 | | | | | | | | | | x |
| P. tridentata Ait. | 4678 | x | x | x | x | x | x | x | x | x | x |
| Prunus nigra Ait. | 4678 | x | x | | x | | | | | | |
| P. pennsylvanica L.f. | 134678 | x | x | x | x | x | x | x | x | x | x |
| P. pumila L. (incl. P. susquehanae Willd.) | 145678 | x | | | | x | x | x | x | x | x |
| P. serotina Ehrh. | 7 | | | | | | | | | | x |
| P. virginiana L. | 178 | x | x | x | x | x | x | x | x | x | x |
| Rosa acicularis Lindl. | 1678 | x | x | | x | x | | x | x | x | |
| R. blanda Ait. | 78 | x | x | x | x | x | x | x | x | x | x |
| + R. eglanteria L. | 9 | | | | | | | | | | x |
| + R. nitida Willd. | 67 | | | | | | | | x | | |
| R. palustris Marsh. | 12 | | | | | | | | | | x |
| Rubus acaulis Michx. | 4 | x | x | x | x | x | | | | x | |
| R. allegheniensis Porter | 567 | | | | | | | | | x | x |
| R. canadensis L. | 4678 | | | x | | | | | x | x | x |
| R. chamaemorus L. | 34678 | x | x | x | x | x | | | | | |
| R. hispidus L. | 2 | | | | | x | | | | x | x |
| R. idaeus L. (incl. R. strigosus Michx.) | 13456789 | x | x | x | x | x | x | x | x | x | x |
| R. parviflorus Nutt. | 14567 | x | x | x | x | | | x | x | x | x |
| R. pubescens Raf. | 1345678 | x | x | x | x | x | x | x | x | x | x |
| R. recurvicaulis Blanchard | 6 | | | | | | | | | | x |
| + Sorbaria sorbifolia (L.) A.Br. | 1 | x | x | | | | | | | | |
| Sorbus americana Marsh. | 567 | x | x | x | x | | | | | x | x |
| S. decora (Sarg.) C.K.Schneid. | 567 | x | x | x | x | x | x | x | x | x | x |
| Spiraea alba Du Roi (incl. S. latifolia (Ait.) Ahles) | 3567 | x | x | x | x | x | x | x | x | x | x |
| Waldsteinia fragarioides (Michx.) Tratt. | 6 | x | | | | | | | | | |
| RUBIACEAE | | | | | | | | | | | |
| Galium aparine L. | 16 | | | | | | | | | | x |
| G. asprellum Michx. | 134567 | x | x | x | x | x | x | x | x | x | x |
| G. boreale L. | 147 | x | x | x | x | x | | | x | x | |
| G. kantschaticum Steller ex Schultes & Schultes | 1567 | | | | | | | | | x | x |
| G. labradoricum Wieg. | 8 | | x | | | | | | | | |
| G. trifidum L. (incl. G. tinctorium L.) | 134567 | x | x | x | x | | | x | x | x | x |
| G. triflorum Michx. | 156 | x | x | x | x | x | x | x | x | x | x |
| + G. verum L. | 1 | | | | | | | | | | x |
| Mitchella repens L. | 4567 | | | | | | | | | | x |

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|--|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| SALICACEAE | | | | | | | | | | |
| Populus balsamifera L. | 145678 | x | x | x | x | x | | | x | x |
| P. grandidentata Michx. | 167 | x | | | | | | | | x |
| P. tremuloides Michx. | 13456789 | x | x | x | x | x | x | x | x | x |
| + Salix alba L. | 7 | x | | | | | | | | x |
| S. amygdaloides Anderss. | 17 | | | | | | | | | x |
| S. bebbiana Sarg. | 134567 | x | x | x | x | x | x | x | x | x |
| S. candida Fluegge | 137 | x | x | x | x | x | x | x | x | x |
| S. discolor Muhl. | 12345678 | x | x | x | x | x | x | x | x | x |
| S. eriocephala Michx. (S. rigida Muhl.) | 178 | x | x | | x | x | x | x | x | x |
| S. exigua Nutt. (S. interior Rowlee) | 34567 | x | x | | x | x | x | | | x |
| S. humilis Marsh. | 145678 | x | x | x | x | x | x | x | x | x |
| S. lucida Muhl. | 1234567 | x | x | x | x | x | x | x | x | x |
| S. maccalliana Rowlee | 4 | | | | x | | x | | | |
| S. myricoides Muhl. (S. glaucophylloides Fern.) | 8 | | | x | | x | | | | |
| S. myrtillofolia Anderss. | 8 | | | x | x | | x | x | | |
| S. pedicellaris Pursh | 23 | x | x | x | x | x | x | x | x | x |
| S. pellita Anderss. | 34567 | x | x | x | x | x | x | x | x | |
| + S. pentandra L. | 179 | x | | | x | | | | | |
| S. petiolaris J.E.Sm. (S. gracilis Anderss.) | 1278 | x | x | x | x | x | x | x | x | x |
| S. planifolia Pursh (S. phylicifolia L. ssp. planifolia (Pursh) Hiitonen) | 45678 | x | x | x | x | x | | | | |
| S. pseudomonticola Ball (S. monticola Bebb) | 47 | | | | x | | x | x | | |
| S. pyrifolia Anderss. | 12347 | x | x | x | x | x | x | x | x | x |
| S. serissima (Bailey) Feern. | 13456 | x | x | x | x | x | x | | | x |
| SANTALACEAE | | | | | | | | | | |
| Comandra umbellata (L.) Nutt. | 467 | x | | | | | | | | x |
| Geocaulon lividum (Richards.) Fern. | 345678 | x | x | x | x | x | x | x | x | x |
| SARRACENIACEAE | | | | | | | | | | |
| Sarracenia purpurea L. | 3 | x | x | x | x | | | | x | x |
| SAXIFRAGACEAE | | | | | | | | | | |
| Chrysosplenium alternifolium L. (C. tetrandrum (Lund) Fries) | 2 | x | | | | | | | | |
| C. americanum Schwein. | 2 | | | | | | | | x | x |
| Heuchera richardsonii R.Br. | 7 | x | | | | | | | | |
| Mitella nuda L. | 3567 | x | x | x | x | x | x | x | x | x |
| Parnassia glauca Raf. | 7 | | | | | | | x | | x |
| P. palustris L. | 3567 | x | x | x | x | x | x | x | | |
| P. parviflora DC. | 7 | | | x | x | x | x | x | | |
| Ribes americanum Mill. | 567 | x | | | | | | | | |
| R. cynosbati L. | 5 | | | | | | | | | x |
| R. glandulosum Grauer | 356789 | x | x | x | x | x | x | x | x | x |
| R. hirtellum Michx. | 5678 | x | x | x | x | x | x | x | x | x |
| R. hudsonianum Richards. | 3567 | x | x | x | x | x | | | | |
| R. lacustre (Pers.) Poir. | 3567 | x | x | x | x | x | | | x | x |
| R. oxyacanthoides L. | 567 | x | x | x | x | x | x | | | |
| R. triste Pallas | 357 | x | x | x | x | x | x | x | x | x |
| Saxifraga paniculata Mill. (S. aizoon Jacq.) | 5678 | x | x | x | x | x | x | x | x | x |
| S. tricuspidata Rottb. | 78 | | | x | | x | | | | |
| S. virginiana Michx. | 78 | x | x | x | x | x | x | x | x | x |
| Tiarella cordifolia L. | 56 | | | | | | | | | x |

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|---|-----------------|-----------------------------------|---|---|---|---|---|---|---|---|
| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| SCROPHULARIACEAE | | | | | | | | | | |
| Castilleja septentrionalis Lindl. (C. pallida (L.) Spreng. ssp. septentrionalis (Lindl.) Scoggan) | 1568 | x | x | x | x | x | x | x | x | x |
| + Chaenorrhinum minus (L.) Lange | 19 | x | x | x | x | x | x | x | x | x |
| Chelone glabra L. | 467 | x | | | | | | | x | x |
| Collinsia parviflora Lindl. | 8 | x | | | | | | | | x |
| + Euphrasia curta (Fries) Wett. | 7 | x | | | | | | | | |
| E. hudsoniana Fern. & Wieg. | 78 | x | x | x | x | x | | | | |
| + E. stricta D.Wolff ex J.F.Lehm. | 6 | | | | | | | | | x |
| Gratiola neglecta Torr. | 147 | x | | | | | | | | |
| + Linaria dalmatica (L.) Mill. | 179 | x | | | | | | | x | |
| + L. vulgaris Mill. | 179 | x | | x | x | x | x | x | x | x |
| Melampyrum lineare Desr. | 5678 | x | x | x | x | x | x | x | x | x |
| Mimulus ringens L. | 137 | x | x | x | | | | x | x | x |
| + Odontites verna (Bell.) Dum. (O. serotina (Wettst.) Dum. | 15679 | x | x | | | | | | | |
| Orthocarpus luteus Nutt. | 79 | | x | | | x | | | | |
| + Rhinanthus crista-galli L. | 179 | x | x | | | x | | | | |
| Scrophularia lanceolata Pursh | 7 | x | x | | | x | | | | x |
| + Verbascum thapsus L. | 167 | x | x | x | x | x | | x | x | x |
| Veronica americana (Raf.) Schwein. | 14567 | x | x | x | x | x | x | x | x | x |
| + V. arvensis L. | 45 | x | | | | | | | | x |
| + V. officinalis L. | 467 | x | | | | | | | | x |
| V. peregrina L. | 1479 | x | x | x | x | | | | | |
| + V. persica Poir. | 79 | x | x | | | | | | | |
| V. scutellata L. | 7 | x | x | x | | | | x | x | x |
| V. serpyllifolia L. | 179 | x | x | x | x | x | x | x | x | x |
| SOLANACEAE | | | | | | | | | | |
| Chamaesaracha grandiflora (Hook.) Fern. (Physalis grandiflora Hook.) | 179 | x | x | x | | | | | | |
| + Solanum dulcamara L. | 179 | | | | | | | | | x |
| THYMELAEACEAE | | | | | | | | | | |
| Dirca palustris L. | 7 | x | | | | | | | | x |
| TILIACEAE | | | | | | | | | | |
| Tilia americana L. | 5 | | | | | | | | | x |
| ULMACEAE | | | | | | | | | | |
| Ulmus americana L. | 1278 | x | | | | | | | | x |
| U. rubra Muhl. | 7 | | | | | | | | | x |
| UMBELLIFERAE | | | | | | | | | | |
| + Aegopodium podagraria L. | 19 | | x | | | | | | | |
| + Anthriscus sylvestris (L.) Hoffman | 1 | x | | | | | | | | |
| + Carum carvi L. | 1 | x | x | | | | | | x | |
| Cicuta bulbifera L. | 237 | x | x | x | x | | | x | x | x |
| C. maculata L. | 123 | x | | x | x | | | | | x |
| + Daucus carota L. | 1 | | | | x | | | | | x |
| Heracleum lanatum Michx. (H. maximum Bartr.) | 167 | x | x | x | x | | | x | x | x |
| Hydrocotyle americana L. | W17 | | | | x | | | | | x |

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| | | W | T | N | S | P | K | M | L | B |
| <u>DICOTYLEDONEAE</u> | | | | | | | | | | |
| UMBELLIFERAE (Cont'd) | | | | | | | | | | |
| Osmorhiza chilensis H. & A. | 567 | x | x | | | | x | x | x | x |
| O. claytonii (Michx.) C.B.Clarke | 567 | x | x | | | | | | x | x |
| O. depauperata Phil. (O. obtusa Fern.) | 467 | x | x | x | x | | x | | | x |
| O. longistylis (Torr.) DC. | 567 | x | | x | | | | | | x |
| + Pastinaca sativa L. | 146 | x | x | x | | | | | | |
| Sanicula marilandica L. | 14567 | x | x | x | x | | | | x | x |
| Sium suave Walt. | 123 | x | x | x | x | | x | x | x | x |
| Zizia aptera (Gray) Fern. | 178 | | | | | | x | | x | |
| Z. aurea (L.) W.D.J.Koch | 178 | x | x | | | | | | | |
| URTICACEAE | | | | | | | | | | |
| Laportea canadensis (L.) Wedd. | 567 | x | | | | | | | | |
| Urtica dioica L. ssp. gracilis (Ait.) Selander (incl. U. procera Muhl.) | 567 | x | | x | x | | | x | | x |
| VALERIANACEAE | | | | | | | | | | |
| + Valeriana officinalis L. | 1 | | | | | | | | | x |
| VERBENACEAE | | | | | | | | | | |
| Verbena hastata L. | 4 | x | | | | | | | x | x |
| VIOLACEAE | | | | | | | | | | |
| Viola adunca Sm. | 14789 | x | x | x | x | x | x | x | x | x |
| V. blanda Willd. (incl. V. incognita Brainerd) | 345678 | x | x | x | x | x | x | x | x | x |
| V. canadensis L. (incl. V. rugulosa Greene) | 45678 | x | | | | | | | | |
| V. conspersa Reichenb. | 45678 | x | x | x | | x | | x | | x |
| V. cucullata Ait. | 45678 | x | | x | x | x | x | x | x | x |
| V. epipsila Ledeb. ssp. repens (Turcz.) Becker | 3 | x | x | x | | | | | | |
| V. lanceolata L. | 67 | | | | | x | x | | x | x |
| V. macloskeyi Lloyd (V. pallens (Banks) Brainerd) | 145678 | x | x | x | x | x | x | x | x | x |
| V. nephrophylla Greene | 145678 | x | x | x | | | | | x | |
| V. novae-angliae House | 1678 | x | x | | | | | | | |
| V. palustris L. | 1678 | x | x | | | | | | x | |
| V. pubescens Ait. (incl. V. eriocarpa Schwein., V. pensylvanica Michx. var. leiocarpa (Fern. & Wieg.) Fern.) | 145678 | x | x | x | | x | | x | x | x |
| V. renifolia Gray | 15678 | x | x | x | x | x | x | x | x | x |
| V. selkirkii Pursh | 15678 | x | x | x | x | | | x | x | x |
| V. sororia Willd. (incl. V. septentrionalis Greene) | 15678 | x | x | x | | | | x | x | x |
| + V. tricolor L. | 1 | | | | | | x | | | |
| VITACEAE | | | | | | | | | | |
| Parthenocissus vitacea (Knerr) A.S.Hitch. (P. inserta (Kerner) K.Fritsch) | 68 | x | | | | | | | | x |

TABULAR CONSPECTUS

| | | | |
|------------------------------|------|-----------------------|-------|
| <u>PTERIDOPHYTA</u> | | HYDROCHARITACEAE | 3 |
| EQUISETACEAE | 9 | IRIDACEAE | 3 |
| ISOETACEAE | 2 | JUNCACEAE | 19 |
| LYCOPODIACEAE | 10 | JUNCAGINACEAE | 3 |
| OPHIOGLOSSACEAE | 9 | LEMNACEAE | 3 |
| OSMUNDACEAE | 3 | LILIACEAE | 25 |
| POLYPODIACEAE | 37 | NAJADACEAE | 2 |
| SELAGINELLACEAE | 3 | ORCHIDACEAE | 38 |
| | (73) | PONTEDERIACEAE | 1 |
| | | SPARGANIACEAE | 7 |
| <u>PINOPHYTA</u> | | TYPHACEAE | 2 |
| CUPRESSACEAE | 3 | XYRIDACEAE | 1 |
| PINACEAE | 8 | ZANNICHELLIACEAE | 1 |
| TAXACEAE | 1 | ZOSTERACEAE | 23 |
| | (12) | | (386) |
| <u>MAGNOLIOPHYTA</u> | | | |
| <u>MONOCOTYLEDONEAE</u> | | <u>DICOTYLEDONEAE</u> | |
| ALISMATACEAE | 5 | ACERACEAE | 5 |
| ARACEAE | 4 | ADOXACEAE | 1 |
| CYPERACEAE | 131 | AIZOACEAE | 1 |
| ERIOCAULACEAE | 1 | AMARANTHACEAE | 3 |
| GRAMINEAE | 114 | | |

| | | | |
|------------------|-----|------------------|----|
| ANACARDIACEAE | 2 | CUCURBITACEAE | 1 |
| APOCYNACEAE | 3 | DIPSACACEAE | 1 |
| AQUIFOLIACEAE | 2 | DROSERACEAE | 4 |
| ARALIACEAE | 5 | ELAEAGNACEAE | 2 |
| ARISTOLOCHIACEAE | 1 | EMPETRACEAE | 1 |
| ASCLEPIADACEAE | 2 | ERICACEAE | 19 |
| BALSAMINACEAE | 2 | EUPHORBIACEAE | 4 |
| BERBERIDACEAE | 2 | FAGACEAE | 2 |
| BETULACEAE | 8 | FUMARIACEAE | 4 |
| BORAGINACEAE | 12 | GENTIANACEAE | 6 |
| CALLITRICHACEAE | 3 | GERANIACEAE | 4 |
| CAMPANULACEAE | 3 | HALORAGACEAE | 5 |
| CANNABINACEAE | 1 | HIPPURIDACEAE | 1 |
| CAPRIFOLIACEAE | 20 | HYDROPHYLLACEAE | 1 |
| CARYOPHYLLACEAE | 28 | HYPERICACEAE | 7 |
| CELASTRACEAE | 1 | LABIATAE | 19 |
| CERATOPHYLLACEAE | 2 | LEGUMINOSAE | 30 |
| CHENOPODIACEAE | 16 | LENTIBULARIACEAE | 8 |
| CISTACEAE | 2 | LIMNANTHACEAE | 1 |
| COMPOSITAE | 135 | LINACEAE | 2 |
| CONVOLVULACEAE | 4 | LOBELIACEAE | 2 |
| CORNACEAE | 4 | LORANTHACEAE | 1 |
| CRASSULACEAE | 2 | LYTHRACEAE | 1 |
| CRUCIFERAE | 40 | MALVACEAE | 1 |

| | | | |
|----------------|---------|------------------|--------|
| MYRICACEAE | 2 | ROSACEAE | 62 |
| NYCTAGINACEAE | 1 | RUBIACEAE | 9 |
| NYMPHAEACEAE | 6 | SALICACEAE | 23 |
| OLEACEAE | 3 | SANTALACEAE | 2 |
| ONAGRACEAE | 12 | SARRACENIACEAE | 1 |
| OROBANCHACEAE | 1 | SAXIFRAGACEAE | 19 |
| OXALIDACEAE | 2 | SCROPHULARIACEAE | 24 |
| PAPAVERACEAE | 1 | SOLANACEAE | 2 |
| PLANTAGINACEAE | 4 | THYMELAEACEAE | 1 |
| POLEMONIACEAE | 2 | TILIACEAE | 1 |
| POLYGALACEAE | 2 | ULMACEAE | 2 |
| POLYGONACEAE | 27 | UMBELLIFERAE | 17 |
| PORTULACACEAE | 3 | URTICACEAE | 2 |
| PRIMULACEAE | 5 | VALERIANACEAE | 1 |
| PYROLACEAE | 12 | VERBENACEAE | 1 |
| RANUNCULACEAE | 34 | VIOLACEAE | 16 |
| RHAMNACEAE | 2 | VITACEAE | 1 |
| | | | (740) |
| | Summary | PTERIDOPHYTA | 73 |
| | | PINOPHYTA | 12 |
| | | MONOCOTYLEDONEAE | 386 |
| | | DICOTYLEDONEAE | 740 |
| | | Total | (1211) |

APPENDIX I.

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or distribution but not cited in the text.)

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