

VASCULAR PLANT CHECKLIST FISH CREEK PROVINCIAL PARK

Compiled by Gustave J. Yaki, edited by Ian D. Macdonald

Friends of Fish Creek Provincial Park Society, Calgary Alberta
2026



Fred Calverlay photo

Gustave Joseph Yaki, who we all knew as Gus Yaki, grew up as a farm boy from Sandwich, Saskatchewan where he developed his love for nature and skills in identifying birds, mammals, insects and plants by walking the five kilometres to and from school. When he was 19 he joined the RCMP and was posted initially Toronto where he joined the Toronto Field Naturalists, then to the Six Nations Reserve in the Carolinian Zone of Ontario with its southern forests. After being married he moved to Lindsay, quickly becoming president of the local nature club, then to St. Catharines where he helped form the Niagara Falls Nature Club and compiled a flora of the Niagara Peninsula, and shortly afterward he became a board member of the Federation of Ontario Naturalists where he ran their outdoor trips program, helped form the Nature Conservancy of Canada, and was involved in creating the Bruce Trail that followed the 900 km long Niagara Escarpment from Niagara Falls to the Bruce Peninsula on Lake Huron. And if that wasn't enough to fill a lifetime, he formed an eco-tour company, Ontario Nature Tours, that shortly became the Nature Travel Service which he ran for two decades with guided trips by local experts to 76 countries on all seven continents, for each of which he became familiar with their various natural features, and he estimated that he had seen half of the world's bird species. WHEW!

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In 1993, Calgary was so fortunate to have Gus and Aileen Pelzer move to our city. But, even though was retired, he pressed on: volunteering with the Friends of Fish Creek Society leading weekly ... biweekly ... triweekly ... multiple-time weekly trips around the park and around to the other city parks, as well as conducting bird identification courses, and giving talks on the environment, such as the threats to wild and honey bee populations. He edited Nature Calgary's 'Pika' magazine, initiated a Calgary version of a 'Big Year' for birders, and to celebrate Canada's 150th birthday, he led a trip across the 200 kms of Alberta's southern boundary. Did I say retired? Gus strode on into his mid-80s with boundless enthusiasm and good humour. In recognition of his volunteering he was awarded by the Governor General the 'Sovereign's Medal for Volunteers', and was recognized as Calgary's 'Top 7 over 70'. But his greatest recognition is from the many people who knew him (after Lefebvre 2020).

For over two decades Gus Yaki had been leading birding and botany trips throughout the park which gave him an admirable familiarity with its plants and often their history. As a result, with his detailed record-keeping, he was the major source for the habitats and locations of plant records for the park. Using the park's list of vascular plants in Natural Areas of Calgary as a starting point, he produced his 2017 update, which greatly expanded its species and habitat contents. Indicative of his respect for the plants, he did not make any collections – except for one, *Thesium ramosum*, and that turned out to be the first record for Canada. Initially, the two major collectors in the park were Barbara Danielson (1972–1974, 179 specimens) and James W. Case (1973, 71 collections), both University of Calgary students, the former working there as a park naturalist. Their specimens were deposited at the University of Calgary's Isaac Rotstein Memorial Herbarium [UAC] along with the specimens of 35 others, totalling 521 vouching specimens. Bonnie Smith, Collections Manager (ret'd.), allowed access to the preliminary herbarium database for locating these specimens, and they were confirmed or revised by Ian D. Macdonald in 2017. A second herbarium at St. Mary's University, Calgary, which was designated by the park management as the official depository for vascular plant specimens for the park, houses over 300 park specimens. Working with Dr. M.A. McLean, biology professor at St. Mary's University, Calgary, Macdonald had 256 vouching collections, most of these records made in researching for the occurrence of prairie floristic elements along the park's valley slopes (Macdonald 2017a, 2017b, 2020). These specimens are accessible to researchers and interested naturalists, by arrangement.

The flora of the park includes 452 (74.3%) Native species, 156 (25.7%) Alien species and 27 Provincially Invasive species. The largest families in the park are the following: Asteraceae (89 species); Poaceae (60); Fabaceae (42); Rosaceae (36); Brassicaceae (34); Cyperaceae (28); Ranunculaceae (24); Salicaceae (17); Polygonaceae (16). The families, genera and species appear in the following table.

Classes	Families	Genera	Species
Ferns & Fern Allies	4	4	11
Gymnosperms	2	4	9
Dicotyledons	59	240	436
Monocotyledons	16	78	152
Totals	81	326	608

HABITATS

The park has a diversity of natural and managed habitat situations. The riparian forests of the park's western half support often rich coniferous white spruce, deciduous balsam poplar and mixed features which have an undergrowth complement that are extensions of those to the west and north, while those of the eastern half are balsam poplar dominated with a less diverse undergrowth. The valley basin in the eastern half has a predominance of brome grass, resulting from past agriculture. The sun-exposed, south-facing valley slopes present a drier habitat that allows many prairie-associated species to form the ground cover. The Fish Creek itself, the Bow River and several 'engineered ponds' add a wetland contingent to complement the biodiversity of the park's flora.

RARE SPECIES

Four provincially rare vascular plant species as listed in the Rare Vascular Plants of Alberta (Fryer *et al.* 2022) occur in the park, as follows:

Lithospermum occidentale (Mack.) Weakly, Witsell & D. Estes (Western False Gromwell) which occurs in a variety of upland habitats including the prairies.

Rorippa curvipes Greene var. *curvipes* (Bluntleaf Yellowcress) is a species of wetland margins and wet depressions;

Elodea bifoliata H. St. John (Twoleaf Waterweed) and *Elodea canadensis* Michx. (Canada Waterweed); both are aquatic species.

INVASIVE SPECIES

The park has 27 invasive plant species as listed by the Alberta Invasive Species Council (Anon 2022) which has three categories of invasive ‘weeds’, as follows:

Prohibited Noxious (4 species)

**Carduus nutans* L. – Nodding Thistle

**Lythrum salicaria* L. – Purple Loosestrife

**Berberis vulgaris* L. – Common Barberry

**Rhamnus cathartica* L. – European Buckthorn

Noxious (19 species)

**Arctium minus* (Hill) Bernh. – Common Burdock

**Leucanthemum vulgare* Lam. – Oxeye Daisy

**Taraxacum officinale* F.H. Wigg. – Common Dandelion

**Hesperis matronalis* L. – Dame’s-rocket

**Silene latifolia* Poir. var. *alba* – White Bladder-campion

**Euphorbia virgata* Waldst. & Kit. – Leafy Spurge

**Linaria dalmatica* (L.) Miller – Dalmatian Toadflax

**Clematis tangutica* (Maxim.) Korsh. – Golden Clematis

**Verbascum thapsus* L. – Common Mullein

**Bromus tectorum* L. – Downy Brome

**Cirsium arvense* (L.) Scop. – Creeping Thistle

**Sonchus arvensis* L. subsp. *uliginosus* (Bieb.) Nyman

**Cynoglossum officinale* L. – Common Hound’s-tongue

**Campanula rapunculoides* L. – Creeping Bellflower

**Convolvulus arvensis* L. – Field Bindweed

**Astragalus cicer* L. – Chickpea Milkvetch

**Linaria vulgaris* Miller – Common Toadflax

**Ranunculus acris* L. – Tall Buttercup

**Hyoscyamus niger* L. – Black Henbane

Unregulated (4 species)

**Carum carvi* L. – Wild Caraway,

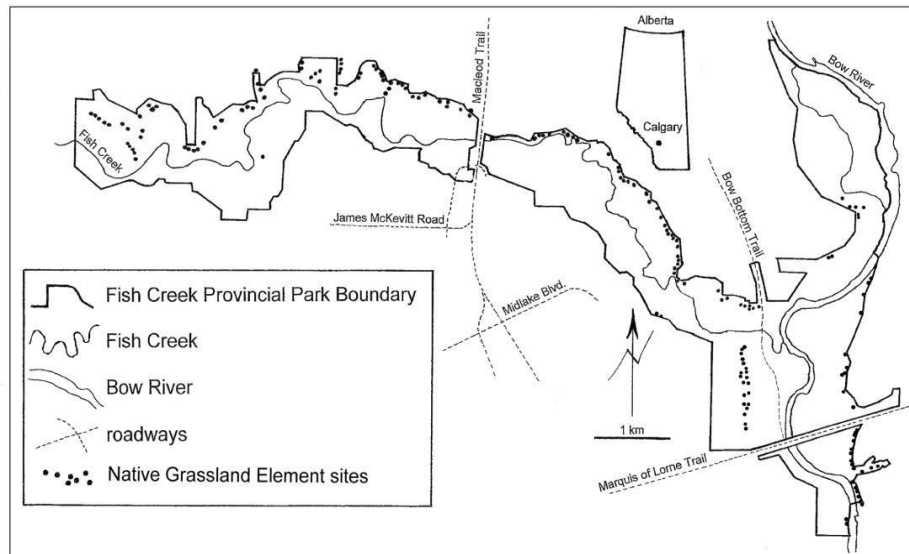
**Cirsium vulgare* (Savi) Ten. – Bull Thistle

**Artemisia absinthium* L. – Absinthe Wormwood

**Thesium ramosum* Hayne – Field Thesium

NATIVE GRASSLAND SPECIES

The previous inventories of prairie habitats along the valley slopes of the park (Macdonald 2017a, 2017b, 2022) indicated 113 species in the park that are representative of the province’s native grasslands. The 204 sample sites generally had between 22 to 44 of these native grassland species in their ground cover. The only alien species recorded as occurring with the native species at the time during the survey were **Bromus inermis* (Smooth Brome) and **Cirsium arvense* (Creeping Thistle) which are actively invading many sites, **Euphorbia virgata* (Leafy spurge) which occurred only occasionally in the sites, and **Taraxacum officinale* (Common Dandelion) which has become naturalized in the habitat. The following line map of the park indicates the locations of the sampled sites. This floral list has 179 species recorded as ‘P’, *i.e.*, prairie, and 100 of the native grassland and other species which occurred along the slopes and elsewhere throughout the park are listed in the following table by decreasing values for the number of times in which they were recorded.



Fish Creek Provincial Park – each dot represents a prairie community occurrence

200 – 100 times	99 – 25 times	24 – 6 times	5 – 1 times
<i>Poa pratensis</i> <i>Sporobolus rigidus</i> <i>Symphoricarpos occidentalis</i> <i>Symphytotrichum ericoides</i> <i>Muhlenbergia cuspidata</i> <i>Solidago missouriensis</i> <i>Galium boreale</i> <i>Artemisia frigida</i> <i>Nassella viridula</i> <i>Symphytotrichum laeve</i> <i>Linum lewisii</i> <i>*Bromus inermis</i> <i>Thermopsis rhombifolia</i> <i>Pascopyrum smithii</i> <i>Artemisia ludoviciana</i> var. <i>ludoviciana</i> <i>Amelanchier alnifolia</i> <i>Comandra umbellatum</i> subsp. <i>pallida</i> <i>Liatris punctata</i> <i>Dasiphora fruticosa</i> <i>Rosa woodsii</i> <i>Carex filifolia</i> <i>Helianthus pauciflorus</i> subsp. <i>subrhomboideus</i> <i>Campanula rotundifolia</i> <i>Carex duriuscula</i>	<i>Monarda fistulosa</i> <i>Bouteloua gracilis</i> <i>Hesperostipa comata</i> <i>*Taraxacum officinale</i> <i>Apocynum androsaemifolium</i> <i>Maianthemum stellatum</i> <i>Glycyrrhiza lepidota</i> <i>Achillea millefolium</i> <i>Rosa arkansana</i> <i>Lithospermum occidentale</i> <i>Lygodesmia juncea</i> <i>Anemone multifida</i> <i>Prunus virginiana</i> <i>Hesperostipa curtisetata</i> <i>Festuca hallii</i> <i>Pulsatilla patens</i> <i>Gaillardia aristata</i> <i>Oenothera suffrutescens</i> <i>Viola adunca</i> <i>Lithospermum ruderales</i> <i>Geum triflorum</i> <i>Koeleria macrantha</i> <i>Dalea purpurea</i> <i>Astragalus flexuosus</i> <i>Solidago rigida</i> var. <i>humilis</i> <i>Heterotheca villosa</i> <i>Packera cana</i>	<i>Vicia americana</i> var. <i>minor</i> <i>Carex deflexa</i> <i>Oxytropis sericea</i> <i>Cirsium flodmanii</i> <i>Lithospermum incisum</i> <i>Penstemon nitidus</i> <i>*Cirsium arvense</i> <i>Erigeron caespitosus</i> <i>Selaginella densa</i> <i>Phlox hoodii</i> <i>Allium textile</i> <i>Cerastium arvense</i> <i>Hesperostipa comata</i> <i>Elymus lanceolatus</i> var. <i>lanceolatus</i> <i>Artemisia campestris</i> subsp. <i>caudata</i> <i>Linum rigidum</i> <i>Calamagrostis montanensis</i> <i>Carex rossii</i> <i>Erigeron glabellus</i> var. <i>pubescens</i> <i>Astragalus laxmannii</i> var. <i>robustior</i> <i>Mirabilis albida</i> <i>Pascopyrum smithii</i> <i>Anemone cylindrica</i>	<i>Eriogonum flavum</i> <i>Potentilla pensylvanica</i> <i>Antennaria parvifolia</i> <i>Juniperus horizontalis</i> <i>Musineon divaricatum</i> <i>Solidago mollis</i> <i>Townsendia exscapa</i> <i>Oxytropis campestris</i> var. <i>spicata</i> <i>Gentiana affinis</i> <i>Orthocarpus luteus</i> <i>Penstemon procerus</i> <i>Potentilla gracilis</i> var. <i>gracilis</i> <i>Heuchera richardsonii</i> <i>Anticlea elegans</i> <i>Carex inops</i> <i>Danthonia intermedia</i> <i>Elymus albacans</i> <i>Eriocoma hymenoides</i> <i>*Euphorbia virgata</i> <i>Festuca idahoensis</i> <i>Helictotrichon hookeri</i> <i>Pseudoregneria spicata</i> <i>Potentilla concinna</i> <i>Astragalus agrestis</i> <i>Schizachyrium scoparium</i>

Number of sample sites in which Native Grassland Species were recorded along the valley slopes and elsewhere in Fish Creek Provincial Park during the 2016 – 2017 survey (Macdonald 2017a, b)

FLORA SOURCES: dates of sources and number of records or collections	HABITATS general habitats recorded for the species
C – Calgary’s Natural Areas (Pinel 1980) 377 species listed Y – Gustav (Gus) J. Yaki 1990 – 2020, 429 records D – Barbara Danielson 1972 – 1974, 179 collections at UAC J – James W. Case: U of C student, 1973, 71 collections at UAC M – Ian D. Macdonald 2008 – 2025, 256 collections at UAC and STMU U – University of Calgary, Isaac Rotsein Memorial Herbarium 1971 – 2023, 512 records S – St. Mary’s University Herbarium 1995 – 2022, 303 records P – park checklist from Alberta Parks O – other collectors at UAC 1962 – 2010, 262 collections	F – forest – deciduous (aspen, poplar), coniferous (spruce) and mixed (poplar, spruce) T – thicket – (willow, wolf willow, buckbrush) M – meadow – (brome, bluegrass, goldenrod) P – prairie – (sandreed, needle-and-thread, prairie sage) D – disturbance – disturbed areas, path-sides R – riparian – stream and pond margins A – standing water, pond S –flowing water, stream, river W – wetland, marsh, wet depression – (cattail, sedge) B – bog, seepage wetland
Genus and species Authorities Common Name <i>Grindelia squarrosa</i> (Pursh) Dunal – Curlycup Gumweed CYM <u>D-U</u> P M D R Not underlined are sources without a collection Second column indicates general Underlined are sources with a collection and the habitats in which the species occur herbarium in which the specimens are housed	

Guide to interpretation of source and vouching specimen data for the species in the floral list

Binomials, authorities and common names follow Kershaw & Allen (2024) which generally conform to those of VASCAN (2010+). Asterisk (*) indicates alien species.

FERNS AND FERN ALLIES

Cystopteridaceae – Bladderfern Family

Cystopteris fragilis (L.) Bernh. – Fragile Bladderfern
CM D-U F

Equisetaceae – Horsetail Family

Equisetum arvense L. – Field Horsetail
CY OM-US F W
Equisetum fluviatile L. – Water Horsetail
CY M-US W
Equisetum hyemale L. subsp. *affine* (Engelm.) A. A. Eat.
CY DOM-US M – Common Scouringrush
Equisetum laevigatum A. Braun – Smooth Scouringrush
C DM-US P W
Equisetum palustre L. – Marsh Horsetail
C W
Equisetum pratense Ehrh. – Meadow Horsetail
C F
Equisetum scirpoides Michx. – Dwarf Scouringrush
CYM D-U F
Equisetum variegatum Schleich. ex F. Weber & D. Mohr
C W R – Variegated Scouringrush

Ophioglossaceae – Addertongue Family

Botrypus virginianus (L.) Michx. – Rattlesnake-fern
YM F

Selaginellaceae – Spikemoss Family

Selaginella densa Rydb. – Prairie Spikemoss
CYM P

GYMNOSPERMS

Cupressaceae – Cypress Family

Juniperus communis L. var. *depressa* Pursh – Common Juniper
CY MUS P M F
Juniperus horizontalis – Creeping Juniper
CY M-S P

Pinaceae – Pine Family

**Larix siberica* Ledeb. – Siberian Larch
Y hort
**Picea abies* (L.) Karst. – Norway Spruce
Y hort
Picea glauca (Moench) Voss – White Spruce
CY M-S F
**Picea pungens* Engelm. – Colorado Blue Spruce
YM hort
Pinus contorta Dougl. ex Loudon var. *latifolia* Engelm.
Y F – Lodgepole Pine

DICOTYLEDONS

Adoxaceae – Moschatel Family*

Sambucus racemosa L. – Red Elderberry
Y M-S F
Viburnum edule (Michx.) Raf. – Low Bush-cranberry
C F

*(formerly treated as Viburnaceae)

**Viburnum opulus* L. var. *opulus* – Cranberry Viburnum

YM hort I

Viburnum opulus L. var. *americanum* Ait.

Y F R – High Bush-cranberry

Amaranthaceae – Pigweed Family

Amaranthus albus L. – White Amaranth
C D
**Amaranthus blitoides* S. Wats. – Prostrate Amaranth
Y W D
**Amaranthus retroflexus* L. – Redroot Amaranth
MY D
**Axyris amaranthoides* L. – Russian-pigweed
CYM D
**Bassia scoparia* (L.) Voss – Summer-cypress
MY D
Blitum capitatum L. – Strawberry-blite
C D
Blitum nuttallianum Schult. – Nuttall Povertyweed
CY M-US P
Chenopodium simplex (Torr.) S. Fuentes, Uotila & Borsch
C D – Mapleleaf Goosefoot
**Chenopodium album* L. – Lamb's-quarters
MY D M
**Kali tragus* (L.) Scop. – Prickly Russian-thistle
CY M-SU D
Oxybasis rubra (L.) S. Fuentes, Uotila & Borsch – Red Goosefoot
Y M-S M D
Oxybasis salina (Standley) Uotila – Oakleaf Goosefoot
CYM D-U W
Suaeda calceoliformis (Hook.) Moq. – Western Seablite
M D

Anacardiaceae – Sumac Family

Rhus typhina L. – Staghorn Sumac
Y hort I

Apiaceae – Carrot Family

**Aegopodium podagraria* L. – Goutweed
Y I
**Carum carvi* L. – Wild Caraway
Y D-U M
Cicuta maculata L. var. *angustifolia* Hook.
CY M-S W – Spotted Water-hemlock
**Eryngium planum* L. – Cross-thistle
Y M-S D M
Heracleum maximum W. Bartram – American Cowparsnip
CY M-S F T M
Lomatium macrocarpum (Hook. & Arn.) J.M. Coult. & Rose
CM P – Largeleaf Desert-parsley
Musineon divaricatum (Pursh) Nutt. – Leafy Wild-parsley
CY DM-US P
Osmorhiza depauperata Phil. – Spreading Sweet-cicely
CY F
Sanicula marilandica L. – Maryland Sanicle
C O-U F
Sium suave Walt. – Common Waterparsnip
C W
Zizia aptera (A. Gray) Fern. – Heartleaf Alexanders
CY JM-US P M

***Apocynaceae* – Milkweed Family**

Apocynum androsaemifolium L. – Spreading Dogbane

CY DJM-US M P

Apocynum cannabinum L. – Hemp Dogbane

M M

Apocynum X floribundum Greene – Hybrid Dogbane

Y M

Asclepias speciosa Torr. – Showy Milkweed

MY M

***Araliaceae* – Ginseng Family**

Aralia nudicaulis L. – Wild Sarsaparilla

YM F

***Asteraceae* – Aster Family**

Achillea millefolium L. – Common European Yarrow

CY DM-US M P F

**Achillea ptarmica* L. – Sneezewort Yarrow

CY D-U D M

Achillea alpina L. – Manyflower Yarrow

Y M

Agoseris glauca (Pursh) Raf. – Yellow False-dandelion

CY M-S P

Anaphalis margaritacea (L.) Benth. & Hook. f.

M M – Pearly Everlasting

Antennaria anaphaloides Rydb. – Pearly Pussytoes

C J-U M

Antennaria microphylla Rydb. – Littleleaf Pussytoes

CM P

Antennaria neglecta Greene – Broadleaf Pussytoes

CM D-U M

Antennaria parvifolia Nutt. – Small-leaf Pussytoes

CYM D-U P M

Antennaria pulcherrima (Hook.) Greene – Showy Pussytoes

C F

Antennaria rosea Greene – Rosy Pussytoes

Y M

**Arctium minus* (Hill) Bernh. – Common Burdock

CY M-S M D

Arnica fulgens Pursh – Shining Arnica

Y P

Arnica lonchophylla Greene – Spearleaf Arnica

Y P R

**Artemisia absinthium* L. – Absinthe Wormwood

Y M-S M D P

Artemisia biennis Willd. – Biennial Wormwood

Y S W D

Artemisia campestris L. subsp. *pacifica* (Nutt.) Hall & Clements

CY M-S P – Plains Wormwood

Artemisia dracunculus L. – Dragon Wormwood

Y M-S P

Artemisia frigida Willd. – Pasture Wormwood

C M-US P M

Artemisia ludoviciana Nutt. subsp. *ludoviciana*

CY M-US P M – Silver Wormwood

Askillia elegans (Hook.) W.A. Weber – Elegant hawksbeard

Y R

Aster alpinus L. subsp. *vierhapperi* Onno – Alpine Aster

M F

Bidens cernua L. – Nodding Beggarticks

MY W

**Carduus nutans* L. – Nodding Thistle

YM D M

**Cirsium arvense* (L.) Scop. – Creeping Thistle

CY M-S M D T

Cirsium flodmanii (Rydb.) Arthur – Flodman Thistle

Y M-S P

Cirsium undulatum (Nutt.) Spreng. – Wavyleaf Thistle

C P

**Cirsium vulgare* (Savi) Ten. – Bull Thistle

CYM D M

Crepis runcinata (E. James) Torr. & A. Gray

Y P M S – Dandelion Hawksbeard

**Crepis tectorum* L. – Narrowleaf Hawksbeard

CY M-U D M

Erigeron acris L. – Bitter Fleabane

Y R

Erigeron caespitosus Nutt. – Tufted Fleabane

CY DM-US P R

Erigeron canadensis L. – Horseweed Fleabane

MY M

Erigeron compositus Pursh – Cutleaf Fleabane

M R

Erigeron glabellus Nutt. var. *pubescens* Hook.

CY DM-US P M – Smooth Fleabane

Erigeron lonchophyllus Hook. – Shortray Fleabane

Y D-U R F M

Erigeron philadelphicus L. – Philadelphia Fleabane

YM M P R

Erigeron speciosus (Lindl.) DC. – Showy Fleabane

Y M-U P

Erigeron strigosus Muhl. ex Willd. – Rough Fleabane

MY D-U M D

Eurybia conspicua (Lindl.) G.L. Nesom – Showy Wood-aster

C F

Eurybia sibericus (L.) G.L. Nesom – Siberian Wood-aster

Y R

Euthamia graminifolia (L.) Nutt. – Common Goldentop

C DOM-US W M

Gaillardia aristata Pursh – Great Blanketflower

C OM-US P

**Gnaphalium uliginosum* L. Low Cudweed

Y M D R

Grindelia squarrosa (Pursh) Dunal – Curlycup Gumweed

CYM D-U P M D R

Gutierrezia sarothrae (Pursh) Britt. & Rusby

CM P – Broom Snakeweed

**Helianthus annuus* L. – Common Sunflower

Y M D

Helianthus nuttallii Torr. & A. Gray – Nuttall Sunflower

Y M-US P M

Helianthus pauciflorus Nutt.

subsp. *subrhomboides* (Rydb.) O. Spring & E.E. Schilling
– Stiff (or Rhombic-Leaved) Sunflower

CY DM-US P

Heterotheca villosa (Pursh) Schinners – Hairy Golden-aster

CY DM-US P D

Hieracium umbellatum L. – Umbellate Hawkweed

CM F T

**Lactuca serriola* L. – Prickly Lettuce

YM D M

Mulgedium pulchellum (Pursh) G. Don – Blue-lettuce

CY M-S P

**Leucanthemum vulgare* Lam. – Oxeye Daisy
Y M-S M D

Liatris punctata Hook. – Dotted Blazingstar
CY DM-US P

Lygodesmia juncea (Pursh) D. Don *ex* Hook.
C M-S P – Rush Skeletonweed

Matricaria discoidea DC. – Pineappleweed
CYM D M R

Packera cana (Hook.) W.A. Weber & Á. Löve
CY DJM-US P – Woolly Groundsel

Packera indecora (Greene) Á. Löve & D. Löve
C D-U B – Rayless Groundsel

Packera paupercula (Michx.) Á. Löve & D. Löve
Y DOM-US P F R – Balsam Groundsel

Packera pseud aurea (Rydb.) W.A. Weber & Á. Löve
Y W F – Streambank Groundsel

Petasites frigidus (L.) Fr. var. *palmatus* (Ait.) Cronq.
Y F W

Petasites frigidus (L.) Fr.
var. *sagittatus* (Banks *ex* Pursh) Cherniawsky
CYM W B – Arrow-leaved- Coltsfoot

**Pyrethrum roseum* Painted Daisy
Y hort D

Senecio eremophilus Richards. – Cutleaf Ragwort
YM M F

**Senecio viscosus* L. – Sticky Ragwort
M-S D

**Senecio vulgaris* L. – Common Ragwort
YM D M

Solidago altissima L. var. *gilvocanescens* (Rydb.) Sempel
C M-S M P – Canescent Tall Goldenrod

Solidago decemflora DC.
– Grey (Prairie Grey-stemmed) Goldenrod
Y M-S M P

Solidago gigantea Ait. – Giant Goldenrod
CY DM-US R M T

Solidago glutinosa Nutt – Western Sticky Goldenrod
C P R M

Solidago lepida DC. var. *lepida* – Elegant Goldenrod
YM M T R P

Solidago missouriensis Nutt. – Missouri Goldenrod
CY DM-US P

Solidago mollis Bart. – Velvety Goldenrod
YM P

Solidago rigida L. subsp. *humilis* (Lindl. *ex* DC.) B. Boivin
C DM-US P – Stiff Goldenrod

Solidago simplex Kunth – Sticky Goldenrod
C M-S P R M

Sonchus arvensis L. subsp. *uliginosus* (Bieb.) Nyman
C M-S M D R T – Perennial Sowthistle

**Sonchus asper* (L.) Hill – Prickly Sowthistle
YM D M

Symphyotrichum ciliolatum (Lindl.) Á. Löve & D. Löve
CY DM-US F – Lindley Aster

Symphyotrichum ericoides (L.) G.L. Nesom
CY DM-US P – Tufted White Prairie Aster

Symphyotrichum falcatum (Lindl.) G.L. Nesom
YM P – Creeping White Prairie Aster

Symphyotrichum laeve (L.) Á. Löve & D. Löve
CY DOM-US P M R – Smooth Aster

Symphyotrichum lanceolatum (Willd.) G. L. Nesom
subsp. *hesperium* (A. Gray) G. L. Nesom
CY M-US W R – Lanceleaf Aster

**Tanacetum vulgare* L. – Common Tansy
CY M-US M D

**Taraxacum erythrospermum* Andr. – Redseed Dandelion
Y D M

**Taraxacum officinale* F.H. Wigg. – Common Dandelion
CY M-US M T P R

Townsendia exscapa (Richards.) Porter – Stemless Townsendia
Y P

**Tragopogon dubius* Scop. – Common Goatsbeard
CY M-S M P D

**Tragopogon pratensis* L. – Meadow Goatsbeard
Y M

**Tripleurospermum inodorum* (L.) Sch.Bip.
CY M-S M D P T – Scentless Chamomile

Xanthium strumarium L. – Rough Cocklebur
CYM D-U R D

Berberidaceae – Barberry Family

**Berberis thunbergii* DC. – Japanese Barberry
YM M F

**Berberis vulgaris* L. – Common Barberry
Y M-S F T

Betulaceae – Birch Family

Alnus alnobetula (Ehrh.) K. Koc. subsp. *crispa* (Ait.) Raus
C R F T – Green Alder

Alnus incana (L.) Moench. subsp. *tenuifolia* (Nutt.) Breit.
CYM R W F – Grey Alder

Betula occidentalis Hook. – Water Birch
CYM R F T M

Betula papyrifera Marsh. – Paper Birch
C F

**Betula pendula* Roth subsp. *pendula* – Weeping Birch
Y M

Betula pumila L. var. *glandulifera* Rigel – Dwarf Birch
C B

Boraginaceae – Borage Family

**Cynoglossum officinale* L. – Common Hound's tongue
Y M D

Hackelia americana (A. Gray) Fern. – Nodding Stickseed
Y D T M

Hackelia floribunda (Lehm.) I.M. Johnst.
CY M-US T M – Manyflower Stickweed

Lappula occidentalis (S. Wats.) Greene var. *occidentalis*
M D – Western Stickseed

**Lappula squarrosa* (Retz.) Dumort. – Bristly Stickweed
CY M-US D P M

Lithospermum incisum Lehm. – Narrowleaf Gromwell
C DJM-US P

Lithospermum occidentale (Mack.) Weakly, Witsell & D. Estes
CY JOM-US P F T M – Western False Gromwell

Lithospermum ruderae Dougl. *ex* Lehm. – Woolly Gromwell
CY M-US P

Mertensia paniculata (Ait.) G. Don – Tall Bluebells
CY JM-US F

Myosotis laxa Lehm – Small For-get-me-not
Y W

**Myosotis scorpioides* L. – True Forget-me-not
YM D S

***Brassicaceae* – Mustard Family**

Barbarea orthoceras Ledeb. – American Wintercress

Y M

Barbarea vulgaris Ait. – Bitter Wintercress

C OM-U M

Boechera grahamii (Lehm.) Windham & Al-Shehbaz

Y M-S P M – Graham's Rockcress

Boechera retrofracta (Graham) Á. Löve & D. Löve

MY MD – Reflexed Rockcress

**Brassica juncea* (L.) Czern. – Chinese Mustard

C M D

**Brassica rapa* L. – Field Mustard

M M C

**Camelina microcarpa* Andr. ex DC. – Smallseed Falseflax

Y M D

**Capsella bursa-pastoris* (L.) Medik. – Shepherd's-purse

CY M-S M D

Cardamine pensylvanica Muhl. ex Willd.

C D-U W R – Pennsylvania Bittercress

**Conringia orientalis* (L.) Presl. – Hare's-ear-mustard

Y M D

Descurainia incana (Bernh. ex Fisch. & C. A. May) Dorn

C M D – Grey Tansymustard

Descurainia pinnata (Walt.) Britt.

subsp. *brachycarpa* (Richards.) Detling
C M-U M D – Green Tansymustard

**Descurainia sophia* (L.) Webb ex Prantl

CY M-U M D – Flixweed Tansymustard

**Diploxys muralis* (L.) DC. – Annual Wallrocket

C D M

Draba nemorosa L. – Woodland Draba

M D

**Erucastrum gallicum* (Willd.) O. E. Schulz

Y M-U M D – Common Dogmustard

Erysimum cheiranthoides L. – Wormseed Mustard

CM D

Erysimum inconspicuum (S. Wats.) MacMill.

CY DJO-U P M – Smallflower Wallflower

**Hesperis matronalis* L. – Dame's-rocket

Y M D

**Lepidium chalapense* L. – Lenspod Hoarycress

Y M-S M

Lepidium densiflorum Schrad. – Common Peppergrass

CYM P M D

Lepidium ramosissimum A. Nels. – Branched Peppergrass

M-SU M

Physaria arenosa (Richards.) O'Kane & Al-Shehbaz

CY DO-U P – Great Plains Bladderpod

**Mutarda arvensis* (L.) D. A. German – Corn Mustard

C M D

**Raphanus raphanistrum* L. – Wild Radish

YM D

Rorippa curvipes Greene var. *curvipes* – Bluntleaf Yellowcress

M-U W

Rorippa palustris (L.) Besser – Creeping Yellowcress

CY M-US W S A

**Sinapis alba* L. subsp. *alba* – White Mustard

C M

**Sisymbrium altissimum* L. – Tall Tumblemustard

C M-U M D

**Sisymbrium loeselii* L. – Loesel Tumblemustard

CY DM-US M D

**Thlaspi arvense* L. – Field Pennycress

CY M-US D M

Turritus glabra L. – Towermustard

M M

***Campanulaceae* – Bellflower Family**

**Campanula rapunculoides* L. – Creeping Bellflower

YM D M

Campanula rotundifolia L. – Harebell

CY M-S P M

***Cannabaceae* – Hemp Family**

Humulus lupulus L. var. *lupuloides* E. Small – Common Hop

Y D

***Celastraceae* – Bittersweet Family**

Parnassia palustris L. – Marsh Grass-of-Parnassus

CY DM-US B

***Caprifoliaceae* – Honeysuckle Family**

Linnaea borealis L. – Twinflower

C F

Lonicera dioica L. var. *glaucescens* (Rydb.) Á. Löve & D. Löve

CY JOM-US F – Twining Honesuckle

Lonicera involucrata (Richards.) Banks ex Spreng.

C F – Bracted Honeysuckle

**Lonicera tatarica* L. – Tartarian Honeysuckle

CY M-S F M T

Symphoricarpos albus (L.) S.F. Blake – Thinleaf Snowberry

CY DM-US F

Symphoricarpos occidentalis Hook. – Buckbrush,

CY D-US M P Western Snowberry

***Caryophyllaceae* – Pink Family**

Cerastium arvense L. – Field Chickweed

CY DJOM-US P M

**Cerastium fontanum* Baumg.

subsp. *vulgare* (Hartm.) Greuter & Burdet

YM M D – Common Chickweed

**Gypsophila paniculata* L. – Tall Baby's-breath

YM M D

Moehringia lateriflora (L.) Fenzl – Bluntleaf Sandwort

CY DJM-US F

**Saponaria officinalis* L. – Bouncingbet

Y M D

**Silene csereii* Baumg. – Smooth Catchfly

CY DO-U M D

Silene drummondii Hook. – Drummond Catchfly

CM P

**Silene latifolia* Poir. var. *alba* – White Bladder-campion

Y M-S M D

Silene menziesii Hook. – Menzies Catchfly

OM-US F R

**Silene vulgaris* (Moench) Garcke – Common Bladder-campion

YM M

Stellaria longifolia Muhl. ex Willd. – Longleaf Starwort

YM M

Stellaria longipes Goldie – Longstalk Starwort

C D-U F R

**Stellaria media* (L.) Vill. – Common Starwort
CYM D M

Cleomaceae – Spiderflower Family

Peritoma serrulata (Pursh) DC. – Rocky Mountain Beeplant
Y P M

Commandraceae – Bastard Toadflax Family

Comandra umbellata (L.) Nutt. subsp. *pallida* (A. DC.) Pehl
CY M-U P M – Bastard Toadflax
Geocaulon lividum (Richards.) Fern. – False Toadflax
Y F

Convolvulaceae – Bindweed Family

Calystegia sepium (L.) R. Br. – Hedge Field-bindweed
CYM D-U D M
**Convolvulus arvensis* L. – Field Bindweed
Y M D

Cornaceae – Dogwood Family

Cornus canadensis L. – Canada Bunchberry
M F
Cornus sericea L. – Red-osier Dogwood
CY JM-US F R

Crassulaceae – Stonecrop Family

**Sedum acre* L. – Mossy Stonecrop
Y D

Elaeagnaceae – Oleaster Family

Elaeagnus commutata Bernh. ex Rydb. – Wolfwillow
CY JM-US T M R P
**Hippophae rhamnoides* L. – Sea-buckthorn
Y M-S M H
Shepherdia argentea (Pursh) Nutt. – Silver Buffaloberry
Y M-US T M P
Shepherdia canadensis (L.) Nutt. – Canada Buffaloberry
CY M-S F P M

Ericaceae – Heath Family (incl. Pyroliaceae)

Arctostaphylos uva-ursi (L.) Spreng. – Common Bearberry
CYM JO-U P F
Moneses uniflora (L.) A. Gray – Oneflower wintergreen
CYM D-U F
Orthilia secunda (L.) House – Oneside Wintergreen
CYM D-U F
Pyrola asarifolia Michx. – Common Pink Wintergreen
CYM JO-U F
Pyrola chlorantha Sw. – Greenflower Wintergreen
YM O-U F

Euphorbiaceae – Spurge Family

Euphorbia glyptosperma Engelm. – Ridgeseed Spurge
Y M D
Euphorbia serpillifolia Pers. – Thymeleaf Spurge
Y D M
**Euphorbia virgata* Waldst. & Kit. – Leafy Spurge
CY DJOM-US M T D P

Fabaceae – Legume Family

Astragalus agrestis Dougl. ex D. Don – Purple Milkvetch
CY DM-US P

Astragalus australis (L.) Lam. var. *glabriusculus* (Hook.) Isely
CY F P – Southern Milkvetch

Astragalus bisulcatus (Hook.) A. Gray – Twogroove Milkvetch
MY P

Astragalus canadensis L. – Canada Milkvetch
M T

**Astragalus cicer* L. – Chickpea Milkvetch
Y M-US M T

Astragalus crassicaupus Nutt. – Ground-plum Milkvetch
CY DO-U P

Astragalus drummondii Dougl. – Drummond Milkvetch
CYM DJ-U P

Astragalus eucosmus B.L. Rob. – Elegant Milkvetch
CY DJM-US P

Astragalus flexuosus (Hook.) Dougl. ex G. Don
Y M-S P – Flexible Milkvetch

Astragalus laxmannii Jacq.
subsp. *robustior* (Hook.) Barneby & S. L. Welsh
CY D-U P – Laxmann Milkvetch

Astragalus miser Dougl. – Timber Milkvetch
YM J-U P

Astragalus missouriensis Nutt. – Missouri Milkvetch
CY DJM-US P

Astragalus pectinatus (Hook.) Dougl. ex G. Don
CYM P – Narrowleaf Milkvetch

Astragalus vexilliflexus E. Sheld. – Bentflower Milkvetch
Y R P

**Caragana arborescens* Lam. – Common Caragana
Y M-US hort M T H

**Caragana pygmaea* (L.) DC. – Pygmy Caragana
Y M H

Dalea candida Willd. – White Prairieclover
CP P

Dalea purpurea Vent. – Purple Prairieclover
CPYM D-US P

Glycyrrhiza lepidota Pursh – Wild-licorice
CY M-US M P R

Hedysarum alpinum L.
var. *americanum* (Michx. ex Pursh) Britt.
CYM J-U P F R – Alpine Hedysarum
Hedysarum boreale Nutt. var. *mackenzii* (Richards.) Britt.
CY M-S P F R – Northern Hedysarum

Lathyrus ochroleucus Hook. – Creamy Vetchling
CY DJOM-US F

Lupinus sericeus Pursh – Silky Lupine
CY DJM-US P M

**Medicago lupulina* L. – Black Medik
CY DM-US M D

**Medicago sativa* L. – Alfalfa
CYM M D

**Melilotus officinalis* (L.) Lam. – Yellow Sweetclover
CY M-US M D

Oxytropis borealis DC. var. *viscida* (Nutt.) S.L. Welsh
C DM-US R F T – Boreal Locoweed

Oxytropis deflexa (Pall.) DC. subsp. *foliosa* (Hook.) Barneby
YM M P – Short Foliose Locoweed

Oxytropis deflexa (Pall.) DC. subsp. *sericea* Torr. & A. Gray
CY DJM-US M P – Tall Foliose Locoweed

Oxytropis campestris (L.) DC. var. *spicata* Hook.
C DO-U P – Field Locoweed

Oxytropis sericea Nutt.
var. *speciosa* (Torr. & A. Gray) S. L. Welsh
CY DJM-US P M – Silky Locoweed

Oxytropis splendens Dougl. ex Hook. – Showy Locoweed
CYM M P
Pedimelum esculentum (Pursh) Rydb. – Indian Breadroot
CYM D-U P
Thermopsis rhombifolia (Nutt. ex Pursh) Richards.
CY JOM-US P M – Prairie Goldenbean
**Trifolium aureum* Poll. – Yellow Clover
C M D
**Trifolium hybridum* L. – Alsike Clover
CY M-S M D
**Trifolium pratense* L. – Red Clover
CYM M D
**Trifolium repens* L. – White Clover
CYM M D
Vicia americana Muhl. ex Willd. var. *americana*
CY DJM-US M T F – American Vetch
Vicia americana Muhl. ex Willd. var. *minor* Hook.
C O-U P – Lesser American Vetch
**Vicia cracca* L. – Tufted (or Cow) Vetch
CY M-US M D

Gentianaceae – Gentian Family

Gentiana affinis Griseb. – Pleated Gentian
CY P
Gentianella amarella (L.) Börner – Autumn Dwarf-gentian
CY DOM-US P M
Gentianopsis virgata (Raf.) Holub
subsp. *macounii* (Holm) J. S. Pringle
Y R B – Macoun Fringed-gentian
Halenia deflexa (Sm.) Griseb. – American Spurred-gentian
CY F

Geraniaceae – Geranium Family

**Erodium cicutarium* (L.) L'Hér ex Ait. – Common Storksbill
Y D M
Geranium bicknellii Britt. – Bicknell Geranium
M-S M
Geranium richardsonii Fisch. & Trautvetter – White Geranium
CY F
Geranium viscosissimum Fisch. & C.A. Mey. ex C. A. Mey.
CY JO-U M P – Sticky Purple Geranium

Grossulariaceae – Currant Family

Ribes americanum Mill. – American Black Currant
Y M-S F
Ribes aureum Pursh – Golden Currant
Y M-S M F
Ribes hudsonianum Richards. – Northern Black Currant
C M-S F
Ribes oxycanthoides L. – Canada Gooseberry
CY M-S M P F

Haloragaceae – Watermilfoil Family

Myriophyllum sibiricum L. - Siberian Watermilfoil
CYM A S

Lamiaceae – Mint Family

**Dracocephalum thymiflorum* L. – Thymeflower Dragonhead
C DM-US D M
**Galeopsis tetrahit* L. – Common Hempnettle
CY DM-U D
**Glechoma hederacea* L. – Ground Ivy
YM D

**Lamium amplexicaule* L. – Henbit Deadnettle
YM D
Mentha canadensis L. – Wild Mint
CY DOM-US W
Monarda fistulosa L. var. *menthifolia* (Graham) Fern.
CY OM-US P M – Wild Bergamot
Prunella vulgaris L. var. *lanceolata* (W.P.C. Barton) Fern.
CY D-U M D – Common Selfheal
Scutellaria galericulata L. – March Skullcap
CY DM-US W B
Stachys pilosa Nutt. – Hairy Hedgenettle
CYM W R
**Thymus pulegioides* L. – Lemon Thyme
M-S M

Lentibulariaceae – Bladderwort Family

Utricularia vulgaris L.
subsp. *macrorhiza* (Leconte) R.T. Clausen
YM A – Common Bladderwort

Linaceae – Flax Family

Linum lewisii Pursh – Lewis Blue Flax
CY M-S P M
Linum rigidum Pursh – Stiff Yellow Flax
Y M-US P
**Linum usitatissimum* L. – Common Flax
C M

Lythraceae – Loosestrife Family

**Lythrum salicaria* L. – Purple Loosestrife
Y M-S W R

Malvaceae – Mallow Family

**Malva pumila* Sm. – Low Mallow
C M-S M D
Sphaeralcea coccinea (Nutt.) Rydb. – Scarlet Globemallow
PYM P

Nyctaginaceae – Four-o'clock Family

Mirabilis albida (Walter) Heimerl – Hairy Four-o'clock
C M-US P M

Oleaceae – Olive Family

Fraxinus pennsylvanica Marsh. – Green Ash
YM H
**Syringa reticulata* (Blume) H. Hara – Japanese Lilac Tree
Y H
**Syringa vulgaris* L. – Common Lilac
CYM H

Onagraceae – Evening-primrose Family

Chamaenerion angustifolium (L.) Scop. – Common Fireweed
CY M F
Chamaenerion latifolium (L.) Sweet – Broadleaf Fireweed
Y R
Epilobium ciliatum Raf. subsp. *ciliatum*
CY DM-US W – Northern Willowherb
Epilobium ciliatum Raf.
subsp. *glandulosum* (Lehm.) Hoch & P.H. Raven
CY M-S W – Glandular Willowherb
Epilobium palustre L. – Marsh Willowherb
Y W B

Oenothera biennis L. – Common Evening-primrose

CYM M P D

Oenothera suffrutescens (Seringe) W.L. Wagner & Hoch

CY DM-US P – Scarlet Beeblossom

Orobanchaceae – Broomrape Family

Castilleja lutescens (Greenm.) Rydb. – Stiff Yellow Paintbrush

M R

Castilleja miniata Dougl. ex Hook. – Great Red Paintbrush

M F

Castilleja septentrionalis Lindl. – Northeastern Paintbrush

C M F

Melampyrum lineare Desr. – Narrowleaf Cow-wheat

P F

Aphyllon fasciculatum (NuttTorr. & A. Gray)

Y P – Clustered Broomrape

Orthocarpus luteus Nutt. – Yellow Owllover

CY D-U P

Pedicularis groenlandica Retz. – Elephanthead Lousewort

C B

Rhinanthus minor L. – Little Yellowrattle

Y D-U M

Papaveraceae – Poppy Family

Corydalis aurea Willd. – Golden Corydalis

CY JM-US F D

**Papaver croceum* Ledeb. – Iceland Poppy

Y H

**Papaver somniferum* L. – Opium Poppy

Y H

Plantaginaceae – Plantain Family

Callitriche palustris L. – Spring Water-starwort

Y A S

Hippuris vulgaris L. – Common Mare's-tail

CY A S R

**Linaria dalmatica* (L.) Miller – Dalmatian Toadflax

C M D

**Linaria vulgaris* Miller – Common Toadflax

C M-S M D

Penstemon nitidus Dougl. ex Benth. – Waxleaf Beardtongue

CY M-US P

Penstemon procerus Dougl. ex Graham

M P – Smallflower Beardtongue

**Plantago major* L. – Common Plantain

CYM M D

**Plantago media* L. – Hoary Plantain

M M F

Veronica americana (Raf.) Schwein. ex Benth.

C W S – American Speedwell

Veronica catenata Pennell – Stalkless Water Speedwell

Y O-U S

**Veronica longifolia* L. – Longleaf Speedwell

YM F

Veronica peregrina L. subsp. *xalapensis* (Kunth) Pennell

YM D M – Hairy Speedwell

Polygalaceae – Milkwort Family

Senega officinalis Spach – Senega Snakeroot

C DM-US M

Polygonaceae – Buckwheat Family

Bistorta vivipara (L.) Delarbre – Alpine Bistort

C B R

Eriogonum flavum Nutt. var. *piperi* (Greene) S. Stokes

CYM D-U P – Yellow Umbrella-plant

**Fagopyrum esculentum* Moench – Common Buckwheat

C D

**Fallopia convolvulus* (L.) Löve – Black False-buckwheat

CM M D

Persicaria amphibia (L.) Delarbre

var. *emersa* (Michx.) J.C. Hickman

CM A – Water Smartweed

Persicaria amphibia (L.) Delarbre

var. *stipulacea* (N. Coleman) H. Hara

CYM W A S – Flanged Water Smartweed

Persicaria lapathifolia (L.) Delarbre – Pale Smartweed

CYM W

**Persicaria maculosa* Gray – Lady's-thumb Smartweed

CYM M D

**Polygonum achoreum* S.F. Blake – Leathery Knotweed

CYM D M

**Polygonum aviculare* L. subsp. *aviculare*

M-S D – Prostrate Knotweed

**Polygonum aviculare* L. subsp. *depressum* (Meisn.) Arcang.

C DM-US D – Prostrate Knotweed

**Rheum rhubarbarum* L. – Rhubarb

C H M

**Rumex crispus* L. – Curled Dock

CYM M D

Rumex fueginus Philipi – Golden Dock

Y DM-US W R

Rumex occidentalis W. Wats. – Western Dock

CY M-US W

Rumex triangulivalvis (Danser) Rech. f.

CY DM-US W – Triangular-valve Dock

Polemoniaceae – Phlox Family

Collomia linearis L. – Narrowleaf Collomia

CY D-U M D P

Phlox hoodii Richards. – Hood Phlox

CYM J-U P

Primulaceae – Primrose Family

Androsace chamaejasme Wulfén ex Host

C F R – Sweetflower Fairy-candelbra

Androsace septentrionalis L. – Northern Fairy-candelabra

CY D-U P M

Primula conjugens (Greene) A.R. Mast & Reveal

CY D-U B P M – Mountain Shootingstar

Primula parviflora (Greene) A.R. Mast & Reveal

C M P – Saline Shootingstar

Lysimachia ciliata L. – Fringed Loostripe

CY DM-US M R

Lysimachia maritima (L.) Glaso, Banfi & Soldano – Sea Milkwort

YM M R

Primula incana M.E. Jones – Mealy Primrose

C R F B

Ranunculaceae – Buttercup Family

Actaea rubra (Ait.) Willd. – Red Baneberry

CY JM-US F M

Anemonastrum canadensis (L.) Mosyakin – Canada Anemone

CY DJM-US F W

Anemone cylindrica A. Gray – Candle Anemone
CY DM-US P M

Anemone multifida Poir. – Cutleaf Anemone
CY DM-US P M

Anemone parviflora Michx. – Smallflower Anemone
CY R F

Aquilegia brevistyla Hook. – Blue Columbine
C J-U F

Clematis occidentalis (Hornem.) DC. – Purple Clematis
CY DOM-US F

**Clematis tangutica* (Maxim.) Korsh. – Golden Clematis
YM O-U M D

Delphinium glaucum S. Wats. – Tall Larkspur
CYM F

Halerpestes cymbalaria (Pursh) Greene – Seaside-buttercup
CY M-S W

Pulsatilla nuttalliana (DC.) Bercht. ex J. Presl
CY M-S M P – Prairie Pasqueflower

Ranunculus abortivus L. – Smallflower Buttercup
CYM D-U M

**Ranunculus acris* L. – Tall Buttercup
CYM M D

Ranunculus arcticus Richards. – Northern Buttercup
Y R

Ranunculus cardiophyllus Hook. – Heartleaf Buttercup
CY DJM-US P M

Ranunculus flammula . – Creeping Spearwort
Y R

Ranunculus gmelinii DC. – Gmelin Water-buttercup
CY W S

Ranunculus longirostris Godr. – Longbeak Water-buttercup
Y A

Ranunculus macounii Britt. – Macoun Buttercup
CY DM-US W

Ranunculus rhomboideus Goldie – Prairie Buttercup
CY DJM-U P

Ranunculus sceleratus L. – Celeryleaf buttercup
CY M-S W

Ranunculus trichophyllus Chaix – Threadleaf Water-buttercup
Y M-US A

Thalictrum venulosum Trel. – Veiny Meadowrue
CY DJM-US M F T

Rhamnaceae – Buckthorn Family

**Rhamnus cathartica* L. – European Buckthorn
Y F

Rosaceae – Rose Family

Amelanchier alnifolia (Nutt.) Nutt. ex M. Roem. – Saskatoon
CYM -U T P F

Argentina anserina (L.) Rydb. – Silverweed
CYM R M P

**Cotoneaster lucidus* Schlech. – Shiny Cotoneaster
CY M-S F M

Crataegus chrysocarpa Ashe – Fireberry Hawthorn
Y T M

Dasiphora fruticosa (L.) Rydb. – Shrubby-cinquefoil
CY JM-US M P T

Drymocallis arguta (Pursh) Rydb. – Tall Woodbeauty
CM P M

Dryas drummondii Richards. ex Hook.
Y F – Drummond Mountain-avens

Fragaria virginiana Mill. subsp. *glauca* (S. Wats.) Staudt
CY JOM-US M P F T – Wild Strawberry

**Filipendula ulmaria* (L.) Maxim. – Queen-of-the-meadow
Y H

Geum allepicum Jacq. – Yellow Avens
CY OM-US M

Geum macrophyllum Willd. – Largeleaf Avens
Y W

Geum rivale L. – Purple Avens
C W

Geum triflorum Pursh – Threeflower Avens
CY M-S P

**Malus baccata* (L.) Borkh. – Siberian Crabapple hort
Y H M

**Malus domestica* (Suckow). Borkg. *nom. cons.*
Y H M – Common Apple

Potentilla bipinnatifida Dougl. *nom. cons.* – Plains Cinquefoil
Y P

Potentilla concinna Richards. – Early Cinquefoil
CYM JO-U P M

Potentilla gracilis Dougl. ex Hook. var. *gracilis*
CYM P M – Slender Cinquefoil

Potentilla hippiana Lehm. – Woolly Cinquefoil
CYM P

Potentilla norvegica L. – Rough Cinquefoil
CY DM-US M D R W

Potentilla pensylvanica L. – Pennsylvania Cinquefoil
CYM O-U F T

**Prunus padus* L. – Bird Cherry
Y H

**Prunus tomentosa* Thunb. – Nanking Cherry
Y H T

Prunus virginiana L. var. *virginiana* - Chokecherry
CYM J-U F T P

Rosa acicularis Lindl. – Prickly Rose
CY M-US F T M P

Rosa arkansana Porter – Prairie Rose
CM P M

Rosa woodsii Lindl. – Woods Rose
CY M-S P T

Rubus arcticus L. – Arctic Raspberry
Y B R

Rubus idaeus L. subsp. *strigosus* (Michx.) Focke
CY M-S F T M – Wild Red Raspberry

Rubus pubescens Raf. – Dwarf Raspberry (Dewberry)
CYM F

**Sorbaria sorbifolia* (L.) A. Braun
Y M-S H F – False-spiraea

**Sorbus aucuparia* L. – European Mountain Ash (Rowan)
YM H F

Spiraea lucida Dougl. ex Greene – Shinyleaf Meadowsweet
CY F

**Spiraea xvanhouttei* (Briot) Carrière – Van Houtt's Spiraea
Y H M

Rubiaceae – Bedstraw Family

**Galium aparine* L. – Cleavers Bedstraw
M M D

Galium boreale L. – Northern Bedstraw
CY JOM-US F P T

Galium trifidum L. – Threepetal Bedstraw
Y W

Galium triflorum Michx. – Sweetscented Bedstraw
Y DM-US F

Salicaceae – Willow Family

Populus balsamifera L. – Balsam Poplar
Y CM-US F T
Populus tremuloides Michx. – Trembling Aspen
CY M-US FT
Populus trichocarpa Torr. & A. Gray – Black Cottonwood
C M-S F R
Populus xjackii Sarg. – Jack’s Hybrid Poplar
M F
Salix amygdaloides Anderss. – Peachleaf Willow
CY M-US F S M
Salix bebbiana Sarg. – Bebb Willow
CY DM-US T M F P
Salix brachycarpa Nutt. – Short-capsule Willow
Y R
Salix discolor Muhl. – Pussy Willow
C F T
Salix interior Rowlee – Sandbar Willow
CY DM-UA T R
Salix famelica (C.R. Ball) Argus – Hungry (Yellow) Willow
CY DJM-US T R W
Salix fragilis L. – Crack Willow
Y M-US M H
Salix lasiandra Benth. subsp. *caudata* (Nutt.) Sudworth
CD M-U T R – Whiplash Willow
Salix maccalliana Rowlee – MacCalla Willow
Y M-S F
Salix planifolia Pursh – Tealeaf Willow
Y M-US R F
Salix pseudomonticola R.C. Ball – False Mountain Willow
Y M-US F R
**Salix pyrifolia* Anderss. – Balsam Willow
YM F T
Salix serissima (L.H. Bailey) Fern. – Autumn Willow
Y W B

Sapindaceae – Soapberry Family

**Acer ginnala* Maxim. – Amur Maple
Y H T
Acer negundo L. – Manitoba Maple
CYM F T R

Saxifragaceae – Saxifrage Family

Heuchera richardsonii R. Br. – Richardson Alumroot
CYM P
Mitella nuda L. – Naked Mitrewort
CY D-U F

Scrophulariaceae – Figwort Family

**Verbascum thapsus* L. – Common Mullein
CYM O-U M D

Solanaceae - Nightshade Family

**Hyoscyamus niger* L. – Black Henbane
CYM O-U M D
**Solanum dulcamara* L. – Climbing Nightshade
YM M T D
Solanum triflorum L. – Black Nightshade
PYM P D

Thesiaceae – Thesium Family

**Thesium ramosum* Hayne – Field Thesium
YOM-US M D

Ulmaceae – Elm Family

**Ulmus americana* L. – American Elm
Y M
**Ulmus pumila* L. – Siberian Elm
YM M F

Urticaceae – Nettle Family

Urtica gracilis Ait. – Stinging Nettle
CY M-US R W D

Verbenaceae – Vervain Family

Verbena bracteata Lag. & Rodr. – Bracted Vervain
YM D P M

Violaceae – Violet Family

Viola adunca Sm. – Early Blue Violet
CY JOM-US M P
Viola nephrophylla Greene – Northern Bog Violet
C D-U W B
Viola nuttallii Pursh – Nuttall Violet
C P
Viola palustris L. – Marsh Violet
C W
Viola rugulosa Greene – Western Canada Violet
CY JOM-US F
**Viola tricolor* L. – Pansy Violet
M-S H M

MONOCOTYLEDONS

Alismataceae – Water-plantain Family

Alisma triviale Pursh – Broadleaf Water-plantain
CY D-U W S
Sagittaria cuneata E. Sheld. – Arrowleaf Arrowhead
CY W S

Amaryllidaceae - Amaryllis Family

Allium cernuum Roth – Nodding Onion
CY DOM-US P M F
Allium schoenoprasum L. var. *sibericum* (L.) Hartm.
CY M – Wild Chives
Allium textile A. Nels. & J.F. Macbr. – Prairie Onion
CY DM-US P

Araceae – Arum Family

Lemna turonifera E. Landolt – Common Duckweed
CM A

Asparagaceae – Asparagus Family

**Asparagus officinale* L. – Garden Asparagus
Y M-US M T D H
**Convallaria majalis* L. – European Lily-of-the-valley
Y H M
Maianthemum canadense Desf.
subsp. *interius* (Fern.) Á. Löve & D. Löve
Y F – Wild Lily-of-the-valley
Maianthemum amplexicaule (Nutt.) W.A. Weber
CY D-U F – Western False-Solomon-seal

Maianthemum stellatum (L.) Link

– Starflower False-Solomon-seal

CY JOM-US F P M

Streptopus amplexifolius (L.) DC. – Clasping-leaf Twisted-stalk

Y F

Cyperaceae – Sedge Family

Carex aquatilis Wahlenb. – Water Sedge

CY M-US W S

Carex atherodes Spreng. – Wheat Sedge

Y M-U W S

Carex aurea Nutt. – Golden Sedge

CY D-U M T

Carex bebbii (L.H. Bailey) Olney ex Fern. – Bebb Sedge

Y M-S W

Carex capillaris L. – Hair Sedge

C D-U B

Carex concinna R. Br. – Northern Elegant Sedge

C M-S F

Carex deweyana Schwein. – Dewey Sedge

M F

Carex deflexa Homeem. – Bent Northern Sedge

CM M

Carex disperma Dewey – Twoseed Sedge

Y F B

Carex duriuscula C.A. Mey. – Needleleaf Sedge

C DM-US P M

Carex eburnea Boott – Bristleleaf Sedge

Y M-US F

Carex filifolia Nutt. – Threadleaf Sedge

CY DM-US P

Carex inops L.H. Bailey – Long-stolon Sedge

Y P

Carex microptera C.A. May. – Smallroot Sedge

C D-U W

Carex pellita Muhl. ex Willd. – Woolly Sedge

CY DM-US W R

Carex praegracilis W. Boott – Clustered Field Sedge

Y M-S F M

Carex rossii Boott – Ross Sedge

M O-U M P

Carex scirpoidea Michx. – Singlespike Sedge

CY D-U R B

Carex siccata Dewey – Dryspike Sedge

YM M F

Carex sprengei Dewey ex Spreng. – Sprengel sedge

C DM-US F

Carex utriculata Boott – Bottle Sedge

CY DOM-US W S

Carex viridula Michx – Green Sedge

YM R B

Eleocharis acicularis (L.) Roem. & Schult.

CYM W – Needle Spikerush

Eleocharis palustris (L.) Roem. & Schult.

CY DM-US A S W – Common Spikerush

Scirpus microcarpus J. Presl & K. Presl – Smallfruit Bulrush

CY DJM-US W

Schoenoplectus acutus (Muhl. ex Bigel.) Á. Löve & D. Löve

Y W – Hardstem Bulrush

Schoenoplectus tabernaemontani (C.C. Gmel.) Palla

Y M-S W – Softstem Bulrush

Hydrocharitaceae – Frogbit Family

Elodea bifoliata H. St. John – Twoleaf Waterweed

Y M-U A

Elodea canadensis Michx. – Canada Waterweed

Y M-US A S

Iridaceae – Iris Family

Sisyrinchium montanum Greene – Common Blue-eyed-grass

CY M-S M P

Sisyrinchium septentrionale E. Bickn. – Pale Blue-eyed-grass

C M-S M P

Juncaginaceae – Arrowgrass Family

Triglochin maritima L. – Seaside Arrowgrass

CY B

Triglochin palustris L. – Marsh Arrowgrass

CY DM-US B R W

Juncaceae – Rush Family

Juncus alpinoarticulatus Chaix – Alpine Rush

C DM-US R S

Juncus balticus Willd. subsp. *ater* (Rydb.) Snogerup

CY DJM-US W R S – Wire Rush

Juncus bufonius L. – Toad Rush

YM D

Juncus longistylis Torr. – Longstyle Rush

C DOM-US M

Juncus nodosus L. – Knotted Rush

CY DM-US R

Juncus dudleyi Wieg. *Dudleyi* Rush

Y M-US M

Luzula multiflora (Ehrh.) Lej. Manyflower Woodrush

- M M

Luzula parviflora (Ehrh.) Desv. – Smallflower Woodrush

Y F

Liliaceae – Lily Family

Lilium philadelphicum L. – Wood Lily

C P M F

Prosartes trachycarpa S. Wats. – Roughfruit Fairbells

CY JOM-US

Melanthiaceae – Bunchflower Family

Anticlea elegans (Pursh) Rydb. – White Death-camas

C M-S M P

Toxicoscordion venenosum (S. Wats.) Rydb.

var. *gramineum* (Rydb.) Brasher

CY D-U M P – Meadow Death-camas

Orchidaceae – Orchid Family

Coeloglossum viride (L.) Hartm. – Frog Orchid

C F

Corallorhiza maculata (Raf.) Raf. – Spotted Coralroot

Y F

Corallorhiza striata Lindl. – Striped Coralroot

C F

Corallorhiza trifida Châtel. – Pale Coralroot

C DO-U M F

Cypripedium parviflorum Salisb. – Yellow Ladyslipper

Y M R T

Cypripedium passerinum Richards. – Sparrowegg Ladyslipper

Y B

Galearis rotundifolia (Banks ex Pursh) R.M. Batem.
C D-U F – Roundleaf Orchid

Platanthera huronensis (Nutt.) Lindl. – Huron Green-orchid
CM F

Platanthera obtusa (Banks ex Pursh) Lindl.
Y F – Bluntleaf Bog-orchid

Neottia borealis (Morong) Szlach. – Northern Twayblade
Y F

Spiranthes romanzoffiana Cham. – Hooded Ladytresses
Y M F

Poaceae – Grass Family

**Agropyron cristatum* (L.) Gertn. – Crested Wheatgrass
CY M-US M D

**Agropyron fragile* (Roth) P. Candargy - Siberian Wheatgrass
M-S M D

**Agrosotis gigantea* Roth – Giant Bentgrass
C M

Agrostis scabra Willd. – Rough Bentgrass
C D-U M R

**Agrostis stolonifera* L. – Creeping Bentgrass
CY DM-US M R

Alopecurus aequalis Sobol. – Shortawn Foxtail
CY OM-U W

**Alopecurus pratensis* L. – Meadow Foxtail
M-US M

Anthoxanthum hirtum (Schränk) Schouter & Veldkamp
Y M-US M P – Hairy Sweetgrass

**Avena fatua* L. – Wild Oat
M M

**Avena sativa* L. – Cultivated Oat
C D

Beckmannia syzigachne (Steud.) Fern.
CY M-S W – American Sloughgrass

Bouteloua gracilis (Kunth) Lag. ex Griffiths – Blue Grama
CY DM-US P

**Bromus inermis* Leyss. – Smooth Brome
CY DM-US M F T D

Bromus porteri (J.M. Coulter) Nash – Porter Brome
M-S M

Bromus pumpellianus Scribn. – Pumpelly Brome
C D-U F

**Bromus tectorum* L. – Downy Brome
Y M-S D M

Calamagrostis canadensis (Michx.) P. Beauv.
CY DM-US W – Bluejoint Reedgrass

Calamagrostis montanensis (Scribn.) Vasey – Plains Reedgrass
Y M-S P

Calamagrostis stricta (Timm) Koeler subsp. *stricta*
Y M-S W S – Slimstem Reedgrass

Calamagrostis stricta (Timm) Koeler
subsp. *inexpansa* (A. Gray) Greene
C O-U W S – Northern Reedgrass

**Dactylis glomerata* L. – Orchard Grass
YM M D

Danthonia intermedia Vasey – Timber Oatgrass
M M P

Deschampsia caespitosa (L.) P. Beauv. – Tufted Hairgrass
C DM-US W

**Echinochloa crus-galli* (L.) P. Beauv. – Large Barnyardgrass
M D-U D M

**Elyhordeum macounii* (Vasey) D.R. Dewey – Macoun's Barley
M-U P

Elymus albicans (Scribn. & J.G. Smith) Á. Löve
M M-S P – Northern Wildrye

Elymus canadensis L. – Canada Wildrye
CY DM-US P R

Elymus lanceolatus (Scribn. & J.G. Sm.) Gould
var. *lanceolatus* – Thickspike Wildrye
C DM-US P M

**Elymus repens* (L.) Gould – Quackgrass
C DM-US M D

Elymus trachycaulus (Link) Gould ex Shinnars
subsp. *trachycaulus* – Slender Wildrye
CYM M

Elymus trachycaulus (Link) Gould ex Shinnars
subsp. *subsecundus* (Link) Á. Löve & D. Löve
Y DM-U F – Awned Slender Wildrye

**Eremopyrum triticeum* (Gaertn.) Nevski
C D – Annual False-wheatgrass

Eriocoma hymenoides (Roem. & Schult.) Rydb.
CY M-U P – Indian Ricegrass

Ericoma nelsonii (Scribn.) Romansch. – Nelson Needlegrass
C D-U P

Eriocoma richardsonii (Link) Romaschenko
CM F R – Richardson Needlegrass

Festuca hallii (Vasey) Piper – Plains Rough-fescue
CY DM-US P

Festuca idahoensis Elmer – Idaho Fescue
M-S P

Festuca trachyphylla (Hack.) Krajina – Hard Fescue
O-U M D

**Festuca rubra* L. subsp. *fallax* (Thuillier) Nyman – Red Fescue
M-US M

Festuca saximontana Rydb. – Rocky Mountain Fescue
M-US P

Glyceria borealis (Nash) Batch. – Northern Mannagrass
M W

Glyceria grandis S. Wats. – Tall Mannagrass
C DM-US W S

Glyceria striata (Lam.) Hitchc. – Fowl Mannagrass
CYM W F

Helictochloa hookeri (Scribn.) Rom-Zar. – Hooker Oatgrass
CY DO-US P

Hesperostipa comata (Trin. & Rupr.) Barkw. – Needle-and-thread
CY M-S P

Hesperostipa curtipendula (Hitchc.) Barkw.
CY M-US P – Northern Porcupinegrass

Hordeum jubatum L. – Foxtail Barley
CY DM-US W R M

**Hordeum vulgare* (Trin.) Barkw. – Plains Porcupinegrass
C D

Koeleria macrantha (Ledeb.) Schult. – Prairie Junegrass
CY DM-US P

Leymus cinereus (Scribn. & Merrill) Á. Löve
C M-US M – Great Basin Lymegrass

Leymus innovatus (Beal) Pilg. – Downy Lymegrass
CY D-U F

**Lolium arundinaceum* (Schreb.) Darbysh. – Tall Ryegrass
M-S M

Muhlenbergia cuspidata (Torr. ex Hook.) Rydb. – Plains Muhly
Y M-US P

Muhlenbergia glomerata (Willd.) Trin. – Spike Muhly
M M

Muhlenbergia racemosa (Michx.) Britt., Sterns & Poggenb.
O-U M – Marsh Muhly

Muhlenbergia richardsonis (Trin.) Rydb. – Mat Muhly
M P M

Nassella viridula (Trin.) Barkw. – Green Needlegrass
CY M-US P M

Oryzopsis asperifolia Michx. – Roughleaf Ricegrass
YM F

**Panicum miliaceum* L. – Proso Millet
M-S M D

Pascopyrum smithii (Rydb.) Barkw. & D.R. Dewey
M-US P – Western-wheatgrass

Phalaris arundinacea L. – Reed Canarygrass
CY DM-US W

**Phleum pratense* L. – Common Timothy
CY M-US M

Poa alpina L. – Alpine Bluegrass
M F

**Poa annua* L. – Annual Bluegrass
Y M-S M D

**Poa compressa* L. – Canada Bluegrass
Y M-S M P D

Poa glauca Vahl – Glaucous Bluegrass
M-U R

Poa interior Rydb. – Inland Bluegrass
C F M

Poa palustris L. – Fowl Bluegrass
CY D-U W R

**Poa pratensis* L. – Kentucky Bluegrass
CY DM-US M P F T

**Psanthyrostachys juncea* (Fisch.) Nevski – Russian Wildrye
C M

Pseudoroegneria spicata (Pursh) Á. Löve
CM P – Bluebunch Wheatgrass

Puccinellia nuttalliana (Schult.) Hitchc. – Nuttall Alkaligrass
YM W D P

Schizachne purpurescens (Torr.) Swallen – False-melic
Y M-S F

Schizachyrium scoparium (Michx.) Nash – Little-bluestem
Y M-S P

**Secale cereale* L. – Common Rye
C D

Setaria viridis (L.) P. Beauv. var. *viridis* – Green Foxtail
CY D-U D M

Sporobolus hookerianus P.M. Peterson & Saarela
CY D-U W – Alkali Cordgrass

Sporobolus rigidus (Buckl.) P.M. Peter – Prairie Sandreed
CY DM-US P

**Triticum aestivum* L. – Common Wheat
Y D

***Potamogetonaceae* – Pondweed Family**

**Potamogeton crispus* L. – Curly Pondweed
C M-US A

Potamogeton pusillus L. – Small Pondweed
M-US A

Potamogeton richardsonii (A. Benn.) Rydb.
CM A – Richardson Pondweed

Stuckenia pectinata (L.) Börner – Sago Pondweed
Y M-US A

Zannichellia palustris L. – Horned-pondweed
OM-US A

***Tofieldiaceae* – False-aspodel Family**

Tofieldia glutinosa (Michx.) Baker – Sticky Tofieldia
Y F B

***Typhaceae* – Cattail Family**

Sparganium angustifolium Michx. – Clustered Burreed
Y A

Sparganium eurycarpum Engelm. – Broadleaf Burreed
P A

Typha latifolia L. – Common Cattail
CY M-S W

NOTES

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EXCLUDED SPECIES

Twenty-eight species records appearing in the several sources (listed above) have not been included in this list for the following reasons: they appear to have been misidentifications of technically difficult species; there have been recent taxonomic changes which have created ambiguity in their binomial; the species probably did not persist; the species are well out of their range and hence are unlikely to occur. For the record, these are listed in the table below:

<i>Pinus aristata</i> Engelm.; <i>Pinus flexilis</i> E. Ames; <i>Juniperus scopulorum</i> Sarg.; <i>Antennaria lanata</i> (Hook.) Greene; <i>Fraxinus nigra</i> Marsh.; <i>Echinochloa muricata</i> (Beav.) Fern.; <i>Arabis hirsuta</i> (L.) Scop.; <i>Lomatium dissectum</i> (Nutt. ex Torr. & A. Gray) Mathias & Constance; <i>Urtica urens</i> L.; <i>Betula pendula</i> Sarg. subsp. <i>mandshurica</i> (Regel) Ashbumer & McAllister; <i>Hesperostipa spartea</i> (Trin.) Barkw.; <i>Boechera collinsii</i> (Fern.) A. Löve & D. Löve; <i>Physaria arctica</i> (Wormsk. ex Hornem.) O'Kane & Al-Shehbaz; <i>Comandra umbellata</i> (L.) Nutt. subsp. <i>umbellata</i>; <i>Cucumis melo</i> L.; <i>Astragalus multiflorus</i> (Pursh) A. Gray; <i>Lonicera utahensis</i> S. Wats.; <i>Malva neglecta</i> Wallr.; <i>Aconitum delphinifolium</i> DC.; <i>Prunus virginiana</i> L. var. 'Schubert'; <i>Rosa glauca</i> Vill.; <i>Salix lasiandra</i> Benth. subsp. <i>lasiandra</i>; <i>Scirpus atrocinctus</i> Fern.; <i>Danthonia parryi</i> Scribn.; <i>Echinochloa muricata</i> (P. Beauv.) Fern.; <i>Pipteranthropsis canadensis</i> (Pior.) Romanaschenko, P.M. Peterson & Soreng; *<i>Thinopyrum intermedium</i> (Host) Barkw. & D.R. Dewey; <i>Vahlodea atropurpurea</i> (Wahlenb.) Fr. ex Hartm.; <i>Sparganium fluctuans</i> (Morong) B.L. Rob.
