

VASCULAR PLANTS
of
Wood Buffalo National Park

March, 1995

by
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NOTE: The listing was of plants completed in March, 1995 by W.J. Cody, at the request of Ross W. Wein. Copies are being sent to WBNP to solicit corrections to strengthen the list further.

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VASCULAR PLANTS

Approximately 550 vascular plants have been found in and adjacent to Wood Buffalo National Park. The first and most detailed study of the vegetation of the Park was provided by Hugh Raup (1935). This was followed by other works by Raup (1936, 1946, 1947) and Lee et al. (1982) that gave additional information on the Park and surrounding regions. Cody (1956, 1961, 1978) furnished new records and range extensions for the area. As time progressed and more information was available Porsild and Cody (1980) published the Vascular Plants of Continental Northwest Territories, Canada which included both line drawings and distribution maps of all the native species, and Packer (1983) published a Flora of Alberta which contained distribution maps for the province.

Perhaps the most fascinating area in the Park is the Salt Plains which become tinted reddish as the Glaswort or Samphire (*Salicornia europaea* ssp. *rubra*) matures. It is here that the Bison (Wood Buffalo) may be so readily observed and photographed. But there are many other interesting areas as well. Thick stands of White Spruce (*Picea glauca*) can be found adjacent to the rivers. It is here that one might be lucky to spot an orchid partly hidden in a thick layer of moss.

Inland these trees are more widely spaced in drier situations. Jackpine (*Pinus banksiana*) is also frequent, particularly in sandy areas, and Balsam Poplar (*Populus balsamifera*) and Trembling Aspen (*Populus tremuloides*) have invaded after fires. In muskeg margins Black Spruce (*Picea mariana*) and Larch or Tamarack (*Larix laricina*) become predominant over other trees. Muskegs (peat bogs) are formed in undrained depressions throughout the region. These are characterized by very wet, bog-moss associations, grading off into the aquatic associations of open water, sedge marshes, or shrubby growths of willows (*Salix* spp.) and dwarf birch (*Betula glandulosa*).

The month of June heralds not only mosquitoes but many of the early flowering plants - purple Prairie Crocus (*Pulsatilla ludoviciana*), whose stem elongates to be topped by a plumose seed head and pink Prickly Rose (*Rosa acicularis*), with a light fragrance. By mid- to late-June one needs to distinguish some of the blue to violet legumes - Wild Vetch (*Vicia americana*) with its terminal tendrils, Alpine Milk Vetch (*Astragalus alpinus*) with no terminal tendrils (and rounder leaflets) and Showy Loco-weed (*Oxytropis splendens*), which is quite furry and turns blue as the flower heads dry. Pea-vine (*Lathyrus ochroleucus*) has larger leaflets, with large white flowers and terminal tendrils. One is sure to see carpets of white Bunchberry (*Cornus canadensis*) closer to the forest edge. If you stop, and leave your vehicle, you may see the pale pink bells of Common Bearberry (*Arctostaphylos uva-ursi*). Of note, early in July, are white or yellow Sweet Clover (*Melilotus*) and yellow or blue Lucerne (*Medicago*) which have been introduced and are classified as weeds. One of the local residents from Fort Smith has decided to try some bee hives and take advantage of these weeds. Raup's Indian Paint-brush (*Castilleja raupii*), a violet version of Indian Paint-brush, can be found in large patches. Northern Bedstraw (*Galium boreale*) looks like miniature cumulus clouds while Common Yarrow (*Achillea millefolium*) appears as flat-topped clouds against a sea of green. Besides the yellow of the ever present Dandelion (*Taraxacum*), you may also see Alpine Arnica (*Arnica lonchophylla*) or Canadian Butterweed (*Senecio pauperculus*). There are three Cinquefoils of note - Shrubby Cinquefoil (*Potentilla fruticosa*) in upland muskeg and sterile stony ground, Pinnatifid Cinquefoil (*P. bimundorum*) with its pinnately divided leaflets near Fort Smith, and Rough Cinquefoil (*P. norvegica*) with a dense leafy inflorescence and a 3-parted leaflet. The pioneer species, Fireweed (*Epilobium angustifolium*), with its deep pink to violet flowers reaches the height of its flowering season in the latter part of July.

In the list of plants which follows a few are rare in either Alberta or the District of Mackenzie. These species which have been recorded as rare for Alberta by Packer and Bradley (1984) and the Northwest Territories by Cody (1979) and McJannet et al. (1995) are followed by RA (Rare in Alberta) and RN (Rare in Northwest Territories). Introduced or non-native species which were reported by Raup (1936, 1946, 1947), Cody (1956, 1961, 1978) and Wein et al. (1992) are followed by an I (Introduced or non-native). Common names have been taken from Porsild and Cody (1980) and Packer (1983) or, if they were not available from these floras, from the Vascular Plants of British Columbia (Douglas 1989, 1990, 1991, 1994). Descriptions and keys to these species may be found in Packer (1983) for Alberta and Porsild and Cody (1980), plus illustrations for the Northwest Territories.

For more details consult: Porsild and Cody (1980); Packer (1983).

Family: Clubmoss - Lycopodiaceae

- _____ Stiff Clubmoss (*Lycopodium annotinum*)
- _____ Running Clubmoss (*Lycopodium clavatum*)
- _____ Ground Cedar (*Lycopodium complanatum*)
- _____ Ground Pine (*Lycopodium dendroideum*, *L. obscurum* var. *dendroideum*)
- _____ Mountain Clubmoss (*Lycopodium selago*)

Family: Spikemoss - Selaginellaceae

- _____ Spikemoss (*Selaginella rupestris*) - RA
- _____ Mountainmoss (*Selaginella selaginoides*)

Family: Quillwort - Isoetaceae

- _____ Quillwort (*Isoetes echinospora*) - RA

Family: Horsetail - Equisetaceae

- _____ Common Horsetail (*Equisetum arvense*)
- _____ Water or Swamp Horsetail (*Equisetum fluviatile*)
- _____ Scouring-rush (*Equisetum hyemale*)
- _____ Marsh Horsetail (*Equisetum palustre*)
- _____ Goosegrass (*Equisetum pratense*)
- _____ Dwarf Scouring-rush (*Equisetum scirpoides*)
- _____ Woodland Horsetail (*Equisetum sylvaticum*)
- _____ Northern Scouring-rush (*Equisetum variegatum*)

Family: Adder's-tongue - Ophioglossaceae

- _____ Moonwort (*Botrychium lunaria*)
- _____ Leathery Grape Fern (*Botrychium multifidum*) - RN

Family: Fern - Pteridaceae

- _____ Rock Brake (*Cryptogramma crispera* var. *acrostichoides*, *C. acrostichoides*)

Family: Fern - Aspidiaceae

- _____ Fragile Fern (*Cystopteris fragilis*)
- _____ Narrow Spinulose Shield Fern (*Dryopteris carthusiana*)
- _____ Fragrant Shield Fern (*Dryopteris fragrans*) - RA
- _____ Oak Fern (*Gymnocarpium dryopteris*)
- _____ Nahanni Oak Fern (*Gymnocarpium jessoense* ssp. *parvulum*) - RA
- _____ Ostrich Fern (*Matteuccia struthiopteris*)
- _____ Rusty Woodsia (*Woodsia ilvenis*) - RA
- _____ Oregon Woodsia (*Woodsia oregana*)

Family: Fern - Polypodiaceae

- _____ Polypody (*Polypodium sibiricum*, *P. virginianum* p.p.) - RA

Family: Juniper - Cupressaceae

- _____ Ground or Dwarf Juniper (*Juniperus communis*)
- _____ Creeping Juniper (*Juniperus horizontalis*)

Family: Pine - Pinaceae

- _____ Balsam Fir (*Abies balsamea*)
- _____ Tamarack or Larch (*Larix laricina*)
- _____ White Spruce (*Picea glauca*)
- _____ Black Spruce (*Picea mariana*)
- _____ Jack Pine (*Pinus banksiana*)
- _____ Lodgepole Pine (*Pinus contorta* var. *latifolia*)

Family: Cattail - Typhaceae

- _____ Common Cattail (*Typha latifolia*)

Family: Bur-reed - Sparganiaceae

- _____ Narrow-leaved Bur-reed (*Sparganium angustifolium*, *S. multipedunculatum*)
- _____ Giant Bur-reed (*Sparganium eurycarpum*) - RN
- _____ Floating Bur-reed (*Sparganium fluctuans*) - RA
- _____ Slender Bur-reed (*Sparganium minimum*)

Family: Pondweed - Potamogetonaceae

- _____ Slender-leaved Pondweed (*Potamogeton filiformis*)
- _____ Closed-leaved Pondweed (*Potamogeton foliosus*)
- _____ Flat-stalked Pondweed (*Potamogeton friesii*)
- _____ Grass-leaved Pondweed (*Potamogeton gramineus*)
- _____ Blunt-leaved Pondweed (*Potamogeton obtusifolius*)
- _____ Sego or Fennel-leaved Pondweed (*Potamogeton pectinactus*)
- _____ White-stem or Long-stalked Pondweed (*Potamogeton praelongus*)
- _____ Small Pondweed (*Potamogeton pusillus*)

- _____ Richardson's Pondweed (*Potamogeton richardsonii*)
- _____ Large-sheath or Sheathing Pondweed (*Potamogeton vaginatus*)
- _____ Eel-grass Pondweed (*Potamogeton zosteriformis*)

Family: Horned Pondweed - Zannichelliaceae

- _____ Horned Pondweed (*Zannichellia palustris*)

Family: Naiad - Najadaceae

- _____ Naiad (*Najas flexilis*) - RN

Family: Arrow-grass - Juncaginaceae

- _____ Arrow-grass (*Triglochin maritima*)
- _____ Slender Arrow-grass (*Triglochin palustris*)

Family: Water-plantain - Alismataceae

- _____ Broad-leaved Water-plantain (*Alisma plantago-aquatica*) - RN
- _____ Arrowhead or Wapato (*Sagittaria cuneata*)

Family: Grass - Poaceae (Gramineae)

- _____ Crested Wheat Grass (*Agropyron pectiniforme*) - I
- _____ Siberian Wheat Grass (*Agropyron sibiricum*) - I
- _____ Western Wheat Grass (*Elymus smithii, Agropyron smithii*)
- _____ Hair or Tickle Grass (*Agrostis scabra*)
- _____ Water or Meadow Foxtail (*Alopecurus aequalis*)
- _____ Polar Grass (*Arctagrostis arundinacea*) - RA
- _____ Wild Oats (*Avena fatua*) - I
- _____ Cultivated Oats (*Avena sativa*) - I
- _____ Slough Grass (*Beckmannia syzigachne*)
- _____ Fringed Brome (*Bromus ciliatus*)
- _____ Smooth Brome (*Bromus inermis*) - I
- _____ Pumpelly Brome (*Bromus pumpellianus*)
- _____ Bluejoint or Marsh Reed Grass (*Calamagrostis canadensis*)
- _____ Northern Reed Grass (*Calamagrostis inexpansa*)
- _____ Plains Reed Grass (*Calamagrostis montanensis*)
- _____ Purple Reed Grass (*Calamagrostis purpurascens*)
- _____ Slim Stem Reed Grass (*Calamagrostis stricta*)
- _____ Drooping Wood Reed (*Cinna latifolia*)
- _____ Wild Oat Grass (*Danthonia intermedia, D. californica* p.p.)
- _____ Poverty Oat Grass (*Danthonia spicata*)
- _____ Tufted Hair Grass (*Deschampsia caespitosa*)
- _____ Salt Grass (*Distichlis stricta*) - RN
- _____ Macoun's Wild Rye (X *Elyhordum macounii*)
- _____ Hairy Wildrye (*Elymus innovatus*)
- _____ Northern Wheat Grass or Thickspike Wildrye (*Elymus lanceolatus, Agropyron dasystachyum*)

- _____ Quack Grass or Couch Grass (*Elymus repens*, *Agropyron repens*) - I
- _____ Slender Wheat Grass (*Elymus trachycaulus*, *Agropyron trachycaulum*)
- _____ Red Fescue (*Festuca rubra*) - I
- _____ Sheep's Fescue (*Festuca saximontana*)
- _____ Northern Manna Grass (*Glyceria borealis*)
- _____ Reed Manna Grass (*Glyceria grandis*)
- _____ Manna Grass (*Glyceria pulchella*)
- _____ Fowl Manna Grass (*Glyceria striata*)
- _____ Hooker's Oat Grass (*Helictotrichon hookeri*)
- _____ Sweet Grass (*Hierochloe odorata*)
- _____ Foxtail Barley or Squirrel-tail Grass (*Hordeum jubatum*)
- _____ June Grass (*Koeleria macrantha*, *K. cristata*)
- _____ American Dune or Lyme Grass (*Leymus mollis*, *Elymus mollis*)
- _____ Mat Muhly (*Muhlenbergia richardsonis*)
- _____ Rice Grass or Mountain Rice (*Oryzopsis asperifolia*)
- _____ Short-awned Rice Grass (*Oryzopsis pungens*)
- _____ Reed Canary Grass (*Phalaris arundinacea*)
- _____ Mountain Timothy (*Phleum alpinum*, *P. commutatum*)
- _____ Timothy (*Phleum pratense*) - I
- _____ Reed Grass (*Phragmites australis*)
- _____ Plains Blue Grass (*Poa arida*)
- _____ Canada Blue Grass (*Poa compressa*) - I
- _____ Cusick's or Skyline Blue Grass (*Poa cusickii*)
- _____ Glaucous Blue Grass (*Poa glauca*)
- _____ Inland Blue Grass (*Poa interior*)
- _____ Fowl Blue Grass (*Poa palustris*)
- _____ Kentucky Blue Grass (*Poa pratensis*) - I
- _____ Alkali Blue Grass (*Poa secunda*, *P. juncifolia*) - RN
- _____ Weeping Alkali Grass (*Puccinellia distans*)
- _____ Haupt's Alkali Grass (*Puccinelliaauptiana*) - RA
- _____ Nuttall's Alkali Grass (*Puccinellia nuttalliana*)
- _____ False Melic or Purple Oats (*Schizachne purpurascens*)
- _____ River Grass (*Scolochloa festucacea*)
- _____ Alkali Cord Grass (*Spartina gracilis*) - RN
- _____ Slender Wedge Grass (*Sphenopholis intermedia*)
- _____ Needle and Thread or Spear Grass (*Stipa comata*)
- _____ Short-awned Porcupine Grass (*Stipa curtisetata*)
- _____ Richardson's Needle Grass (*Stipa richardsonii*)
- _____ Spike Trisetum (*Trisetum spicatum*)

Family: Sedge - Cyperaceae

- _____ Bronze Sedge (*Carex aenea*)
- _____ Water or Northern Sedge (*Carex aquatilis*)
- _____ Northern Clustered Sedge (*Carex arcta*)
- _____ Awned Sedge (*Carex atherodes*)
- _____ Black Sedge (*Carex atratiformis* ssp. *raymondii*, *C. raymondii*)
- _____ Golden Sedge (*Carex aurea*)
- _____ Bebb's Sedge (*Carex bebbi*)

_____ Brownish Sedge (*Carex brunnescens*)
 _____ Buxbaum's or Club Sedge (*Carex buxbaumii*)
 _____ Grey or White Sedge (*Carex canescens*, *C. curta*)
 _____ Hairlike or Hair Sedge (*Carex capillaris*)
 _____ Cordroot Sedge (*Carex chordorrhiza*)
 _____ Low Northern Sedge (*Carex concinna*)
 _____ Crawford's Sedge (*Carex crawfordii*)
 _____ Lesser Panicked Sedge (*Carex diandra*)
 _____ Soft-leaved Sedge (*Carex disperma*)
 _____ Bristle-leaved Sedge (*Carex eburnea*)
 _____ Hay or Silvertop Sedge (*Carex foenea*, *C. siccata*)
 _____ Yellow Bog Sedge (*Carex gynocrates*)
 _____ Lappland Sedge (*Carex lapponica*, *C. canescens* var. *subtoliacea*)
 _____ Slender Sedge (*Carex lasiocarpa*)
 _____ Lens-fruited Sedge (*Carex lenticularis*)
 _____ Bristle-stalked Sedge (*Carex leptalea*)
 _____ Shore or Mud Sedge (*Carex limosa*)
 _____ Ryegrass Sedge (*Carex loliacea*)
 _____ Poor Bog Sedge (*Carex magellanica* ssp. *irrigua*, *C. paupercula*)
 _____ Scandinavian or Alpine Sedge (*Carex media*, *C. norvegica*)
 _____ Blunt Sedge (*Carex obtusata*)
 _____ Meadow Sedge (*Carex praticola*)
 _____ False Cyperus Sedge (*Carex pseudo-cyperus*) - RA
 _____ Long-bracted Sedge (*Carex retrorsa*)
 _____ Richardson's Sedge (*Carex richardsonii*)
 _____ Ross' Sedge (*Carex rossii*)
 _____ Beaked Sedge (*Carex rostrata*)
 _____ Sartwell's Sedge (*Carex sartwellii*)
 _____ Narrow-leaved Sedge (*Carex stenophylla*)
 _____ Many-headed Sedge (*Carex sychnocephala*) - RA
 _____ Tender Sedge (*Carex tenera*)
 _____ Sparse-leaved Sedge (*Carex tenuiflora*)
 _____ Torrey's Sedge (*Carex torreyi*, *C. abbreviata*)
 _____ Sheathed Sedge (*Carex vaginata*)
 _____ Green Sedge (*Carex viridula*)
 _____ Hair Grass or Least Spike-rush (*Eleocharis acicularis*)
 _____ Common or Creeping Spike-rush (*Eleocharis palustris*)
 _____ Short-anthered Cotton-grass (*Eriophorum brachyantherum*)
 _____ Slender Cotton-grass (*Eriophorum gracile*)
 _____ Narrow-leaved Cotton-grass (*Eriophorum angustifolium*, *E. polystachion* p.p.)
 _____ Sheathed Cotton-grass (*Eriophorum vaginatum*)
 _____ Green-keeled Cotton-grass (*Eriophorum viridi-carinatum*)
 _____ Great Bulrush (*Scirpus acutus*)
 _____ Tufted Clubrush (*Scirpus caespitosus*)
 _____ Wool-grass (*Scirpus cyperinus*) - RA
 _____ Hudson Bay Clubrush or Alpine Cotton-grass (*Scirpus hudsonianus*)
 _____ Prairie Bulrush (*Scirpus maritimus* var. *paludosus*, *S. paludosus*) -RN
 _____ Small-fruited Bulrush (*Scirpus microcarpus*)
 _____ Common Great-bulrush (*Scirpus validus*)

Family: Arum - Araceae

- _____ Sweet flag or Calamus (*Acorus americanus*)
- _____ Water Arum or Wild Calla (*Calla palustris*)

Family: Duckweed - Lemnaceae

- _____ Common Duckweed (*Lemna minor*)
- _____ Ivy Duckweed (*Lemna trisulca*)

Family: Rush - Juncaceae

- _____ Alpine Rush (*Juncus alpinoarticulatus*, *J. alpinus*)
- _____ Baltic or Wire Rush (*Juncus balticus*)
- _____ Short-tailed Rush (*Juncus brevicaudatus*) - RA
- _____ Toad Rush (*Juncus bufonius*) - ? I
- _____ Thread Rush (*Juncus filiformis*) - RA
- _____ Tuberous Rush (*Juncus nodosus*)
- _____ Slender Rush (*Juncus tenuis* var. *dudleyi*, *J. dudleyi*) - RN
- _____ Vasey's Rush (*Juncus vaseyi*) - RN

Family: Lily - LILIACEAE

- _____ Wild Chives or Wild Onion (*Allium schoenoprasum* var. *sibiricum*)
- _____ Wild Lily-of-the-Valley (*Maianthemum canadense* var. *interius*)
- _____ Star-flowered Solomon's-seal (*Smilacina stellata*)
- _____ Three-leaved Solomon's-seal (*Smilacina trifolia*)
- _____ Sticky False Asphodel (*Tofieldia glutinosa*)
- _____ Common False Asphodel (*Tofieldia pusilla*)
- _____ Poison Camas or White Camas (*Zygadenus elegans*)

Family: Iris - Iridaceae

- _____ Mountain Blue-eyed Grass (*Sisyrinchium montanum*)

Family: Orchid - Orchidaceae

- _____ Round-leaved Orchid (*Amerorchis rotundifolia*, *Orchis rotundifolia*)
- _____ Venus'-slipper (*Calypso bulbosa*)
- _____ Pale Coral-root (*Corallorhiza trifida*)
- _____ Stemless Lady's-slipper (*Cypripedium acaule*) - RA
- _____ Sparrow's-egg Lady's-slipper (*Cypripedium passerinum*)
- _____ Rattlesnake Plantain (*Goodyera repens* var. *ophioides*)
- _____ Northern Green Orchid (*Habenaria hyperborea*)
- _____ Blunt-leaved Orchid (*Habenaria obtusata*)
- _____ Bracted Orchid (*Habenaria viridis*)
- _____ Northern Twayblade (*Listera borealis*)
- _____ Hooded Ladies'-tresses (*Spiranthes romanzoffiana*)

Family: Willow - Salicaceae

- _____ Balsam Poplar (*Populus balsamifera*)
- _____ Trembling Aspen (*Populus tremuloides*)
- _____ Northern Bush Willow (*Salix arbusculoides*)
- _____ Athabasca Willow (*Salix athabascensis*)
- _____ Bebb's Gray or Beaked Willow (*Salix bebbiana*)
- _____ Short-fruited Willow (*Salix brachycarpa*)
- _____ Sage Willow (*Salix candida*)
- _____ Pussy Willow (*Salix discolor*)
- _____ Sandbar Willow (*Salix exigua*)
- _____ Gray-leaved Willow (*Salix glauca*)
- _____ Shining Willow (*Salix lucida* ssp. *lasiandra*, *S. lasiandra*)
- _____ Yellow Willow (*Salix lutea*)
- _____ McCalla's Willow (*Salix maccalliana*)
- _____ Bilberry or Blueberry Willow (*Salix myrtilifolia*)
- _____ Bog Willow (*Salix pedicellaris*)
- _____ Meadow Willow (*Salix petiolaris*)
- _____ Plane-leaved Willow (*Salix planifolia*)
- _____ Mountain or Serviceberry Willow (*Salix pseudomonticola*)
- _____ Balsam Willow (*Salix pyrifolia*)
- _____ Scouler's Willow (*Salix scouleriana*)
- _____ Autumn Willow (*Salix serissima*)

Family: Wax-myrtle - Myricaceae

- _____ Sweet Gale (*Myrica gale*)

Family: Birch - Betulaceae

- _____ Green or Alder (*Alnus crispa*)
- _____ River or Speckled Alder (*Alnus incana* ssp. *tenuifolia*, *A. tenuifolia*)
- _____ Bog or Dwarf Birch (*Betula glandulosa*)
- _____ Alaska Birch (*Betula neoalaskana*)
- _____ Water or Black Birch (*Betula occidentalis*)
- _____ White or Paper Birch (*Betula papyrifera*)
- _____ Swamp or Scrub Birch (*Betula pumila* var. *glandulifera*)

Family: Hemp - Cannabinaceae

- _____ Common or Stinging Nettle (*Urtica dioica* ssp. *gracilis*, *U. gracilis*)

Family: Sandlewood - Santalaceae

- _____ Pale Comandra (*Comandra umbellata* ssp. *pallida*)
- _____ Bastard Toad-flax or Northern Comandra (*Geocaulon lividum*)

Family: Mistletoe - Loranthaceae

_____ American Dwarf Mistletoe (*Arceuthobium americanum*)

Family: Buckwheat - Polygonaceae

_____ Water Smartweed (*Polygonum amphibium*)
_____ Knotweed (*Polygonum aviculare*) - I
_____ Black Bindweed (*Polygonum convolvulus*) - I
_____ Douglas Knotweed (*Polygonum douglasii*)
_____ Willow-weed or Pale Smartweed (*Polygonum lapathifolium*) - I
_____ Bushy or Yellow-flowered Knotweed (*Polygonum ramosissimum, P. prolificum*)
_____ Alpine Bistort (*Polygonum viviparum*)
_____ Rhubarb (*Rheum rhaonicum*) - I
_____ Golden Dock (*Rumex maritimus* ssp. *fueginus*)
_____ Western Dock (*Rumex occidentalis*)
_____ Narrow-leaved Dock (*Rumex salicifolius* ssp. *triangulivalvis, R. triangulivalvis*)

Family: Goosefoot - Chenopodiaceae

_____ Common Orach (*Atriplex patula*) - I
_____ Saline Orach (*Atriplex subspicata*) - RN
_____ Lamb's Quarters or Pigweed (*Chenopodium album*) - I
_____ Strawberry Blight (*Chenopodium capitatum*)
_____ Maple-leaved Goosefoot (*Chenopodium gigantospermum*)
_____ Narrow-leaved Goosefoot (*Chenopodium leptophyllum*)
_____ Red Goosefoot (*Chenopodium rubrum*) - RN
_____ Glasswort or Samphire (*Salicornia europaea* ssp. *rubra, S. rubra*) - RN
_____ Garden Spinach (*Spinacia oleracea*) - I
_____ Sea Blight (*Suaeda calceoliformis*)

Family: Pink - Caryophyllaceae

_____ Field Chickweed (*Cerastium arvense*) - I
_____ Bering or Alpine Chickweed (*Cerastium beeringianum*)
_____ Nodding Chickweed (*Cerastium nutans*)
_____ Baby's Breath (*Gypsophila paniculata*) - I
_____ Rock Sandwort (*Minuartia dawsonensis*)
_____ Blunt-leaved Sandwort (*Moehringia lateriflora*)
_____ Pearlwort (*Sagina nodosa*) - RA
_____ Sleepy Catchfly (*Silene antirrhina*) - RA
_____ Drummond's Campion (*Silene drummondii, Melandrium drummondii*)
_____ Sand Spury (*Spergularia marina*) - RA, RN
_____ Sand Starwort (*Stellaria arenicola*) - RA
_____ Northern Starwort (*Stellaria calycantha*)
_____ Thick-leaved Starwort (*Stellaria crassifolia*)
_____ Long-leaved Chickweed or Starwort (*Stellaria longifolia*)
_____ Long-stalked Chickweed or Starwort (*Stellaria longipes*)
_____ Common Chickweed (*Stellaria media*) - I

Family: Water-lily - Nymphaeaceae

- _____ Yellow Pond-lily (*Nuphar variegatum*)
- _____ Pygmy Water-lily (*Nymphaea tetragona*) - RA, RN

Family: Hornwort - Ceratophyllaceae
Hornwort (*Ceratophyllum demersum*)

Family: Crowfoot - Ranunculaceae

- _____ Red Baneberry (*Actaea rubra*)
- _____ Canadian Anemone (*Anemone canadensis*)
- _____ Long-fruited Anemone (*Anemone cylindrica*)
- _____ Cut-leaved Anemone (*Anemone multifida*)
- _____ Northern Anemone (*Anemone parviflora*)
- _____ Blue Columbine (*Aquilegia bravistyla*)
- _____ Larkspur (*Delphinium glaucum*)
- _____ Prairie Crocus (*Pulsatilla ludoviciana, Anemone patens*)
- _____ Small-flowered Crowfoot (*Ranunculus abortivus*)
- _____ Common Buttercup (*Ranunculus acris*) - I
- _____ White Water Buttercup (*Ranunculus aquatilis* var. *subrigidus, R. circinatus* var. *subrigidus*)
- _____ Northern Seaside Buttercup (*Ranunculus cymbalaria*)
- _____ Creeping Spearwort (*Ranunculus flammula, R. reptans*)
- _____ Yellow Water Crowfoot (*Ranunculus gmelinii*)
- _____ Arctic Buttercup (*Ranunculus hyperboreus*)
- _____ Lapland Buttercup (*Ranunculus lapponicus*)
- _____ Macoun's Buttercup (*Ranunculus macounii*)
- _____ Northern or Birdfoot Buttercup (*Ranunculus pedatifidus*)
- _____ Bristly Buttercup (*Ranunculus pensylvanicus*) - RN
- _____ Prairie Buttercup (*Ranunculus rhomboideus*) - RN
- _____ Cursed Crowfoot (*Ranunculus sceleratus*)
- _____ Flat-fruited Meadowrue (*Thalictrum sparsiflorum*)
- _____ Veiny Meadowrue (*Thalictrum venulosum*)

Family: Fumitory - Fumariaceae

- _____ Golden Corydalis (*Corydalis aurea*)
- _____ Pink or Pale Corydalis (*Corydalis sempervirens*)

Family: Mustard - Brassicaceae (Cruciferae)

- _____ Spreading Pod Rockcress (*Arabis divaricarpa*)
- _____ Drummond's Rockcress (*Arabis drummondii*)
- _____ Tower Mustard (*Arabis glabra*) - I
- _____ Hairy Rockcress (*Arabis hirsuta* var. *pyncocarpa*)
- _____ Holboell's Rockcress (*Arabis holboellii* var. *retrofracta*)
- _____ Lyre-leaved Rockcress (*Arabis kamchatica, A. lyrata* var. *kamchatica*)
- _____ American Winter Cress (*Barbarea orthoceras*)

- _____ Large-seeded False Flax (*Camelina sativa*) - I
- _____ Shepherd's Purse (*Capsella bursa-pastoris*) - I
- _____ Pennsylvanian Bitter Cress (*Cardamine pensylvanica*)
- _____ Green Tansy Mustard (*Descurainia pinnata* ssp. *brachycarpa*)
- _____ Grey Tansy Mustard (*Descurainia richardsonii*)
- _____ Flixweed or Tansy Mustard (*Descurainia sophia*) - I
- _____ Woods Draba or Whitlow-grass (*Draba nemorosa*)
- _____ Worm-seed Mustard (*Erysimum cheiranthoides*)
- _____ Small-flowered Rocket (*Erysimum inconspicuum*)
- _____ Branched Pepper-grass (*Lepidium bourgeauanum*)
- _____ Prairie Pepper-grass (*Lepidium densiflorum*)
- _____ Ball Mustard (*Neslia paniculata*) - I
- _____ Marsh Yellow Cress (*Rorippa palustris*, *R. islandica*)
- _____ Charlock or Wild Mustard (*Sinapis arvensis*, *Brassica kaber*) - I
- _____ Trembling Mustard (*Sisymbrium altissimum*) - I
- _____ Salt-water Cress (*Thellungiella salsuginea*, *Arabidopsis salsuginea*) - RA, RN
- _____ Pennycress (*Thlaspi arvense*) - I

Family: Pitcher-plant - Sarraceniaceae

- _____ Pitcher-plant (*Sarracenia purpurea*)

Family: Sundew - Droseraceae

- _____ Great Sundew (*Drosera anglica*)
- _____ Linear-leaved Sundew (*Drosera linearis*)
- _____ Round-leaved Sundew (*Drosera rotundifolia*)

Family: Orpine - Crassulaceae

- _____ Stonecrop (*Sedum spurium*) - I

Family: Saxifrage - Saxifragaceae

- _____ Golden Carpet (*Chrysosplenium iowense*)
- _____ Northern Golden Carpet (*Chrysosplenium tetrandrum*)
- _____ Alum Root (*Heuchera richardonii*) - RN
- _____ Bishop's Cap (*Mitella nuda*)
- _____ Grass of Parnassus (*Parnassia palustris*)
- _____ Skunk Current (*Ribes glandulosum*)
- _____ Wild Black Current (*Ribes hudsonianum*)
- _____ Bristly Black Current (*Ribes lacustre*)
- _____ Wild Gooseberry (*Ribes oxycanthoides*)
- _____ Wild Red Current (*Ribes triste*)
- _____ Prickly Saxifrage (*Saxifraga tricuspidata*)

Family: Rose - Rosaceae

- _____ Saskatoon or Serviceberry (*Amelanchier alnifolia*)

- _____ Woodland Strawberry (*Fragaria vesca* ssp. *americana*)
- _____ Wild Strawberry (*Fragaria virginiana* ssp. *glauca*)
- _____ Yellow Avens (*Geum aleppicum* ssp. *strictum*)
- _____ Large-leaved Yellow Avens (*Geum macrophyllum* ssp. *perincisum*)
- _____ Old Man's Whiskers' or Prairie Smoke (*Geum triflorum*)
- _____ Silverweed (*Potentilla anserina*)
- _____ White Cinquefoil (*Potentilla arguta*)
- _____ Bipinnate Cinquefoil (*Potentilla bipinnatifida*)
- _____ Pinnatifid Cinquefoil (*Potentilla bimundorum*, *P. multifida*) - RA
- _____ Shrubby Cinquefoil (*Potentilla fruticosa* ssp. *floribunda*)
- _____ Rough Cinquefoil (*Potentilla norvegica*)
- _____ Marsh Cinquefoil (*Potentilla palustris*)
- _____ Pennsylvanian or Prairie Cinquefoil (*Potentilla pensylvanica*)
- _____ Brook Cinquefoil (*Potentilla rivalis*)
- _____ Three-toothed Cinquefoil (*Potentilla tridentata*)
- _____ Pin or Sand Cherry (*Prunus pensylvanica*)
- _____ Pickly Rose (*Rosa acicularis*)
- _____ Common Wild Rose (*Rosa woodsii*)
- _____ Arctic or Dwarf Raspberry (*Rubus arcticus* ssp. *acaulis*, *R. acaulis*)
- _____ Cloudberry or Baked-apple Berry (*Rubus chamaemorus*)
- _____ Wild Red Raspberry (*Rubus idaeus*)
- _____ Dewberry or Running Raspberry (*Rubus pubescens*)

Family: Pea - Fabaceae (Leguminosae)

- _____ Standing Milk Vetch (*Astragalus adsurgens* ssp. *robustior*, *A. striatus*)
- _____ Purple Milk Vetch (*Astragalus agrestis*, *A. dasyglottis*)
- _____ Alpine Milk Vetch (*Astragalus alpinus*)
- _____ American Milk Vetch (*Astragalus americanus*)
- _____ Canada Milk Vetch (*Astragalus canadensis*)
- _____ Elegant Milk Vetch (*Astragalus eucosmus*)
- _____ Pulse Milk Vetch (*Astragalus tenellus*)
- _____ Common Caragana (*Caragana arborescens*) - I
- _____ Liquorice-root or Sweet Vetch (*Hedysarum alpinum*, *H. alpinum* var. *americanum*)
- _____ Northern Hedysarum or Sweet Vetch (*Hedysarum boreale* ssp. *mackenzii*, *H. mackenzii*)
- _____ Pea-vine or Vetchling (*Lathyrus ochroleucus*)
- _____ Yellow Lucerne (*Medicago falcata*) - I
- _____ Black Medick (*Medicago lupulina*) - I
- _____ Alfalfa or Lucerne (*Medicago sativa*) - I
- _____ White Sweet Clover (*Melilotus alba*) - I
- _____ Yellow Sweet Clover (*Melilotus officinalis*) - I
- _____ Reflexed Locoweed (*Oxytropis deflexa* ssp. *sericea*)
- _____ Showy Locoweed (*Oxytropis splendens*)
- _____ Alsike Clover (*Trifolium hybridum*) - I
- _____ Red Clover (*Trifolium pratense*) - I
- _____ White Clover (*Trifolium repens*) - I
- _____ Wild Vetch (*Vicia americana*)

Family: Geranium - Geraniaceae

___ Crane's Bill or Wild Geranium (*Geranium bicknellii*)

Family: Flax - Linaceae

___ Wild Blue Flax (*Linum lewisii*)

Family: Water-starwort - Callitrichaceae

___ Northern Water-starwort (*Callitriche hermaphroditica*)

___ Spring Water-starwort (*Callitriche verna*)

Family: Crowberry - Empetraceae

___ Black Crowberry (*Empetrum nigrum* ssp. *hermaphroditum*)

Family: Touch-me-not - Balsaminaceae

___ Common Touch-me-not (*Impatiens noli-tangere*)

Family: St. John's-wort - Hypericaceae

___ Large Canadian St. John's-wort (*Hypericum majus*)

Family: Violet - Violaceae

___ Early Blue Violet (*Viola adunca*)

___ Western Canada Violet (*Viola canadensis* ssp. *rydbergii*, *E. rugulosa*)

___ Northern Bog Violet (*Viola nephrophylla*)

Family: Oleaster - Eleagnaceae

___ Silver-berry or Wolf Willow (*Elaeagnus commutata*)

___ Canadian Buffalo-berry (*Shepherdia canadensis*)

Family: Evening Primrose - Onagraceae

___ Enchanter's Nightshade (*Circaea alpina*)

___ Fireweed or Great Willowherb (*Epilobium angustifolium*)

___ Purple-leaved Willowherb (*Epilobium ciliatum*)

___ Small-flowered Willowherb (*Epilobium leptophyllum*)

___ Swamp Willowherb (*Epilobium palustre*)

___ Yellow Evening Primrose (*Oenothera biennis*)

Family: Water-milfoil - Haloragaceae

___ Siberian Water-milfoil (*Myriophyllum sibiricum*, *M. exalbescens*)

___ Verticillate Water-milfoil (*Myriophyllum verticillatum*)

Family: Mare's-tail - Hippuridaceae

___ Common Mare's-tail (*Hippuris vulgaris*)

Family: Ginseng - Araliaceae

___ Wild Sarsaparilla (*Aralia nudicaulis*)

Family: Carrot - Apiaceae (Umbelliferae)

___ Bulbous Water-hemlock (*Cicuta bulbifera*)

___ Spotted Cowbane or Water-hemlock (*Cicuta maculata* var. *angustifolia*)

___ Cow Parsnip (*Heracleum lanatum*)

___ Water Parsnip (*Sium suave*)

Family: Dogwood Family - Cornaceae

___ Bunchberry (*Cornus canadensis*)

___ Red Osier, Dogwood or Kinnikinnick (*Cornus stolonifera*)

Family: Wintergreen - Pyrolaceae

___ Prince's Pine or Pipsissewa (*Chimaphila umbellata*) - RN

___ One-flowered Wintergreen (*Moneses uniflora*)

___ One-sided Wintergreen (*Orthilia secunda*, *Pyrola secunda*)

___ Common Pink Wintergreen (*Pyrola asarifolia*)

___ Greenish-flowered Wintergreen (*Pyrola chlorantha*)

___ White Wintergreen (*Pyrola elliptica*)

___ Arctic or Large-flowered Wintergreen (*Pyrola grandiflora*)

___ Lesser Wintergreen (*Pyrola minor*)

Family: Indian-Pipe - Monotropaceae

Indian-pipe (*Monropa uniflora*)

Family: Heath - Ericaceae

___ Bog Rosemary (*Andromeda polifolia*)

___ Alpine Bearberry (*Arctostaphylos rubra*)

___ Common Bearberry or Kinnikinnick (*Arctostaphylos uva-ursi*)

___ Cassandra or Leather-leaf (*Chamaedaphne calyculata*)

___ Bog-laurel (*Kalmia polifolia*)

___ Northern Labrador Tea (*Ledum decumbens*, *L. palustre* var. *decumbens*)

___ Common Labrador Tea (*Ledum groenlandicum*)

___ Alpine Azalea (*Loiseleuria procumbens*)

___ Small Cranberry (*Oxycoccus microcarpus*)

___ Bog Cranberry (*Oxycoccus quadripetalus*)

___ Velvet-leaved Blueberry (*Vaccinium myrtilloides*)

___ Bog Cranberry, Lingberry or Mountain Cranberry (*Vaccinium vitis-idaea*, *V. uliginosum* ssp. *minus*)

Family: Primrose - Primulaceae

___ Fairy Candelabra (*Androsace septentrionalis*)
___ Shooting Star (*Dodecatheon pulchellum*)
___ Sea Milkwort (*Glaux maritima*)
___ Tufted Loosestrife (*Lysimachia thyrsiflora*)
___ Mealy Primrose (*Primula incana*)
___ Dwarf Canadian or Bird's-eye Primrose (*Primula mistassinica*)
___ Broad-leaved or Western Starflower (*Trientalis borealis* ssp. *latifolia*)
___ Arctic or Northern Starflower (*Trientalis europaea* ssp. *arctica*)

Family: Gentian - Gentianaceae

___ Felwort (*Gentianella amarilla* ssp. *acuta*)
___ Raup's Fringed Gentian (*Gentianopsis detonsa* ssp. *raupii*, *Gentiana raupii*)
___ Marsh Felwort (*Lomatogonium rotatum*)

Family: Buck-bean - Menyanthaceae

___ Buck-bean (*Menyanthes trifoliata*)

Family: Dogbane - Apocynaceae

___ Spreading Dogbane (*Apocynum androsaemifolium*)
___ Indian Hemp (*Apocynum cannabinum*, *A. sibiricum*)

Family: Phlox - Polemoniaceae

___ Narrow-leaved Collomia (*Collomia linearis*)

Family: Waterleaf - Hydrophyllaceae

___ Scorpion-weed (*Phacelia franklinii*)

Family: Borage - Boraginaceae

___ Nodding Stickseed or Hackelia (*Hackelia deflexa* ssp. *americana*, *H. americana*)
___ Stickseed (*Lappula occidentalis*)
___ Tall Mertensia (*Mertensia paniculata*)

Family: Mint - Lamiaceae (Labiatae)

___ Giant Hyssop (*Agastache foeniculum*) - RN
___ American Dragonhead (*Dracocephalum parviflorum*)
___ Wild Mint (*Mentha arvensis*)
___ Wild Bergamot or Horse Mint (*Monarda fistulosa* var. *menthifolia*)

- _____ False Dragonhead (*Physostegia ledinghamii*, *P. parviflora* p.p.) - RN
- _____ Marsh Skullcap (*Scutellaria galericulata*)
- _____ Hedge Nettle (*Stachys palustris*)

Family: Figwort - Scrophylariaceae

- _____ Raup's Indian Paint-brush (*Castilleja raupii*)
- _____ Eyebright (*Euphrasia subarctica*, *E. arctica* p.p.)
- _____ American Hedge-hyssop (*Gratiola neglecta*)
- _____ Mudwort (*Limosella aquatica*)
- _____ Butter-and-eggs or Toadflax (*Linaria vulgaris*) - I
- _____ Cow-wheat (*Melampyrum lineare*)
- _____ Owl-clover (*Orthocarpus luteus*) - RN
- _____ Labrador Lousewort (*Pedicularis labradorica*)
- _____ Yellow Rattle (*Rhinanthus minor* ssp. *borealis*)
- _____ Long-leaved Speedwell (*Veronica longifolia*) - I
- _____ Purslane Speedwell (*Veronica peregrina* ssp. *xalapensis*)
- _____ Marsh Speedwell (*Veronica scutellata*)

Family: Broom-rape - Orobanchaceae

- _____ Northern or Russian Groundcone (*Boschniakia rossica*) - RA

Family: Bladderwort - Lentibulariaceae

- _____ Small Butterwort (*Pinguicula villosa*) - RA
- _____ Horned Bladderwort (*Utricularia cornuta*)
- _____ Flat-leaved Bladderwort (*Utricularia intermedia*)
- _____ Small Bladderwort (*Utricularia minor*)
- _____ Common Bladderwort (*Utricularia vulgaris*)

Family: Plantain - Plantaginaeaceae

- _____ Saline Plantain (*Plantago eriopoda*)
- _____ Common Plantain (*Plantago major*) - I
- _____ Sea-side Plantain (*Plantago maritima*, *P. juncooides* var. *glauca*)

Family: Madder - Rubiaceae

- _____ Northern Bedstraw (*Galium boreale*)
- _____ Small Bedstraw (*Galium trifidum*)
- _____ Sweet-scented Bedstraw (*Galium triflorum*)

Family: Honeysuckle - Caprifoliaceae

- _____ Twin-flower (*Linnæa borealis* ssp. *americana*)
- _____ Twining Honeysuckle (*Lonicera dioica* var. *glaucescens*)
- _____ Snowberry (*Symphoricarpos albus*) - RN
- _____ Buckbrush or Wolfberry (*Symphoricarpos occidentalis*)

___ Low-bush Cranberry or Mooseberry (*Viburnum edule*)

Family: Moschatel - Adoxaceae

___ Moschatel (*Adoxa moschatellina*) - RN

Family: Valerian - Valerianaceae

___ Marsh Valerian (*Valeriana dioica* ssp. *sylvatica*, *V. septentrionalis*)

Family: Bluebell - Campanulaceae

___ Bluebell or Harebell (*Campanula rotundifolia*)

Family: Composite - Asteraceae (Compositae)

- ___ Common Yarrow (*Achillea millefolium* s.l.)
- ___ Siberian Yarrow (*Achillea sibirica*)
- ___ Field Pussytoes (*Antennaria neglecta*)
- ___ Small-leaved Pussytoes (*Antennaria microphylla*)
- ___ Showy Everlasting (*Antennaria pulcherrima*)
- ___ Rosy Pussytoes (*Antennaria rosea*)
- ___ Meadow Arnica (*Arnica chamissonis* ssp. *foliosa*)
- ___ Alpine Arnica (*Arnica lonchophylla*)
- ___ Biennial Sagewort (*Artemisia biennis*)
- ___ Northern Wormwood (*Artemisia campestris*, *A. borealis*)
- ___ Dragonwort or Tarragon (*Artemisia dracunculus*)
- ___ Pasture Sagewort (*Artemisia frigida*)
- ___ Prairie Sagewort (*Artemisia ludoviciana* var. *gnaphalodes*) - RN
- ___ Aleutian Mugwort (*Artemisia tilesii*)
- ___ Rush or Boreal Aster (*Aster borealis*, *A. junciformis*)
- ___ Lindley's Aster (*Aster ciliolatus*)
- ___ Showy Aster (*Aster conspicuus*)
- ___ Tufted White Prairie Aster (*Aster ericoides*)
- ___ Creeping White Prairie Aster (*Aster falcatus*)
- ___ Western Willow Aster (*Aster hesperius*)
- ___ Smooth Aster (*Aster laevis* var. *geyeri*)
- ___ Great Northern Aster (*Aster modestus*)
- ___ Few-flowered Aster (*Aster pauciflorus*) - RA, RN
- ___ Purple-stemmed Aster (*Aster puniceus*)
- ___ Nodding Beggar-ticks (*Bidens cernua*)
- ___ Ox-eye Daisy (*Chrysanthemum leucanthemum*) - I
- ___ Canada Thistle (*Cirsium arvense*) - I
- ___ Drummond's Thistle (*Cirsium drummondii*) - RN
- ___ Leafy Thistle (*Cirsium foliosum*) - RN
- ___ Annual Hawksbeard (*Crepis tectorum*) - I
- ___ Bitter Fleabane (*Erigeron acris* s.l.)
- ___ Annual Fleabane (*Erigeron annuus*)
- ___ Horseweed or Canadian Fleabane (*Erigeron canadensis*)

- _____ Daisy Fleabane (*Erigeron glabellus* ssp. *pubescens*)
- _____ Hyssop-leaved Fleabane (*Erigeron hyssopifolius*) - RA
- _____ Spear-leaved Fleabane (*Erigeron lonchophyllus*)
- _____ Philadelphia Fleabane (*Erigeron philadelphicus*)
- _____ Grass-leaved Goldenrod (*Euthamia graminifolia*, *Solidago graminifolia*) - RN
- _____ Cudweed (*Gnaphalium uliginosum*) - I
- _____ Resinwood or Gumweed (*Grindelia squarrosa*) - RN
- _____ One-flowered Goldenweed (*Haplopappus uniflorus*) - RN
- _____ Narrow-leaved Hawkweed (*Hieracium umbellatum*, *H. scabriusculum*)
- _____ Common Blue Lettuce (*Lactuca pulchella*)
- _____ Pineappleweed (*Matricaria matricarioides*) - I
- _____ Scentless Mayweed (*Matricaria perforata*) - I
- _____ Palmate-leaved Coltsfoot (*Petasites frigidus* ssp. *palmatus*, *P. palmatus*)
- _____ Arrow-leaved Coltsfoot (*Petasites sagittatus*)
- _____ Marsh Ragwort or Fleabane (*Senecio congestus*)
- _____ Dryland Ragwort (*Senecio eremophilus*) - RN
- _____ Rayless Mountain Butterweed (*Senecio indecorus*)
- _____ Canadian Butterweed (*Senecio pauperculus*)
- _____ Rocky Mountain Butterweed (*Senecio streptanthifolius*)
- _____ Common Groundsel (*Senecio vulgaris*) - I
- _____ Canada Goldenrod (*Solidago canadensis*)
- _____ Northern Goldenrod (*Solidago multiradiata*)
- _____ Field Goldenrod (*Solidago nemoralis*)
- _____ Spike-like or Dune Goldenrod (*Solidago simplex*, *S. spathulata*)
- _____ Perennial Sow-thistle (*Sonchis arvensis*) - I
- _____ Dune Tansy (*Tanacetum bipinnatum* ssp. *huronense*, *T. huronense*) - RA
- _____ Common Tansy (*Tanacetum vulgare*) - I
- _____ Horned Dandelion (*Taraxacum ceratophorum*)
- _____ Red-seeded Dandelion (*Taraxacum erythrospermum*) - I
- _____ Common Dandelion (*Taraxacum officinale*) - I
- _____ Goat's-beard (*Tragopogon dubius*, *T. major*) - I

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