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A Checklist of the Vascular Flora in the Vicinity of the Oldman River Dam

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A Checklist of the Vascular Flora in the Vicinity of the Oldman River Dam

Alberta Environmental Centre
and
Wild Rose Consulting, Inc.

E.A. Smreciu, J. Hobden, R. Hermesh

1992

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The Oldman River Dam is located in southwestern Alberta 10 km northeast of Pincher Creek, east of the confluence of the Oldman, Castle, and Crowsnest Rivers (Figure 1). A land base, which will be managed for the conservation of wildlife, has been established around the 2400 ha reservoir by the Government of Alberta. The topography of the land base is consistent with its location at the south end of the Porcupine Hills, in the foothills of the Rocky Mountains and extending out onto the flat prairie. The terrain is cut deeply by the Oldman, Castle, and Crowsnest Rivers and the numerous large coulee systems draining into these rivers. The land base extends approximately 19 km west of the dam, almost to the town of Lundbreck, and 1.6 km east. It includes Tennessee Creek north to Sec36-Twp7-Rge30-W4 and extends north along the Oldman River to Sec9,10-Twp8-Rge1-W5. It follows the Castle River south to Sec2-Twp7-Rge1-W5.

This checklist of vascular plants was prepared to identify rare species that occur in the reservoir area or in the surrounding land base. It is anticipated that this list will provide a resource for future projects in restoration and revegetation in this area and reflect the native vegetation as it exists at present. It will be especially valuable in determining changes in flora over extended periods of time.

The checklist is based primarily on specimens collected in 1989, 1990, and 1991 in the Government of Alberta land base and adjacent private lands. Voucher specimens of each species were collected with information on location, habitat, and collection date. Specimens were identified by the authors. Confirmation (and when necessary correction) of the identification of sedges was kindly undertaken by Dr. Peter Ball at the University of Toronto, and questionable identifications of grasses and forbs were confirmed by the staff of the Biosystematics Research Centre in Ottawa. Plants previously reported for this area by Hardy and Associates (1978) Ltd. (1986) and more recently by Eastern Slopes Rangeland Consultants, Ltd. (1992) are included on this list; however, since voucher specimens were not collected, identifications of these species could not be verified. A complete collection of voucher specimens will be housed in the Herbarium of the Provincial Museum of Alberta (PMAE), at the Native Plant Genetic Resources Laboratory, Alberta Environmental Centre, Vegreville, and at the Interpretive Centre, Oldman River Dam. Presently the collection comprises approximately 1800 specimens representing 54 families, 167 genera, and 303 species.

The large number of species found in this area can be explained by the presence of numerous plant communities representing several ecoregions. The Oldman River Dam collection area is located within the Fescue Grass Ecoregion of Alberta (Strong and Leggat 1981). Floristic elements of this ecoregion are found on the moist eastern and northern aspects. Here rough fescue predominates. While the drier coulee slopes are dominated by shrub communities of wolf willow and buckbrush; chokecherry, rose, Saskatoon berry,

and hawthorn occupy the moister niches. The uplands are dominated by Mixed Grass communities (speargrass, junegrass, and wheatgrasses). These areas are of considerable interest since much of this vegetation type in Alberta has been lost to cultivation. The dry, steep, southern exposures are dominated by ground juniper and skunk bush. Elements of the Montane Ecoregion, distinguished by open stands of Douglas fir are found on the steepest north facing slopes. Limber pine, also a montane species, is found on rocky scarps. A few aspen stands, especially on the eastern and northern slopes, represent the Aspen Parkland Ecoregion. The lowest reaches along the rivers' edges support a community dominated by tall stands of cottonwoods. The soil type of the Fescue Grass Ecoregion is black chernozem. The climate is characterized by warm dry summers and dry winters. The mean temperature from May to September is 12.5°C with a frost free period of 90 days. Mean temperature from December to February is -8.0°C. Mean precipitation is 290 mm from May to September with June being the month of maximum precipitation. Snowfall from October to April is 230 mm, and there are approximately 30 chinook days.

Plant families are ordered according to the Englerian System; genera and species are arranged alphabetically within the family. Scientific names found in "Flora of Alberta" (Moss 1981) were used where possible. The recent monograph, 'Fescue Grasses of Canada' (Aiken and Darbyshire 1990) was used for the fescue. Orchid nomenclature follows Smreciu and Currah (1989). Common names are those the authors considered the most commonly used or appropriate name for each species. Designations of plants as rare for the Oldman River area are based on the COSEWIC list (1989). Further information concerning these species and their status can be found in publications by Wallis *et al.* (1986, 1987)

It is hoped that publication of this list of plants from the vicinity of the Oldman River Dam will stimulate further interest in the study and documentation of plants in areas affected by major construction projects. The authors gratefully acknowledge funding for this project from Alberta Public Works, Supply and Services, Reservoir Development Division and to Al Nilson and Ron Middleton of that department for their guidance and enthusiasm in seeing this work completed. We thank June Carrington, Craig Osterloh, Dave Hay, Richard Fyfe and Karen Brewka for their assistance in locating plant populations. Wendy Sturek, Teresa Kupchenko, and Carla Zelmer assisted with the considerable task of collecting, pressing, mounting, labelling, and cataloguing the extensive collection.

Figure 1. Location of the Oldman River Dam Site in southwestern Alberta.

Selaginellaceae

Selaginella densa Rydb.

Equisetaceae

Equisetum arvense L.

Equisetum fluviatile L.

Equisetum hyemale L. var. *affine* (Engelm.) A.A. Eat.

Equisetum laevigatum A. Br.

Polypodiaceae

Cystopteris fragilis (L.) Bernh.

Cupressaceae

Juniperus communis L.

Juniperus horizontalis Moench

Pinaceae

Pinus flexilis James

Pseudotsuga menziesii (Mirb.) Franco

Typhaceae

Typha latifolia L.

Potamogetonaceae

Potamogeton crispus L.*

Potamogeton gramineus L. var. *gramineus* L.

Juncaginaceae

Triglochin palustris L.

Alismataceae

Alisma gramineum Lej.

Alisma plantago-aquatica L. var. *americanum* Schultes
& Schultes

Club-moss Family

little club-moss

Horsetail Family

common horsetail

swamp horsetail

scouring rush

smooth scouring rush

Fern Family

bladder fern

Cypress Family

ground juniper

creeping juniper

Pine Family

limber pine

Douglas fir

Cattail Family

common cattail

Pondweed Family

curled pondweed

grass-leaved pondweed

Arrow-grass Family

slender arrow-grass

Water-plantain Family

narrow-leaved water plantain

broad-leaved water plantain

* Introduced

** Reported by Hardy Associates (1978) Ltd. (1986)

† Rare in Alberta (COSEWIC 1989)

‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Gramineae

Agropyron albicans Scribn. & Smith var. *albicans*
Agropyron dasystachyum (Hook.) Scribn.
Agropyron smithii Rydb.
Agropyron spicatum (Pursh) Scribn. & Smith
Agropyron trachycaulum (Link) Malte
Agropyron trachycaulum (Link) Malte var. *unilaterale*
 (Cassidy) Malte
Agrostis stolonifera L.*
Alopecurus aequalis Sobol.[‡]
Beckmannia syzigachne (Steud.) Fern.
Bouteloua gracilis (HBK) Lag.
Bromus carinatus Hook. & Arn.
Bromus inermis Leyss.*
Calamagrostis montanensis Scribn.
Calamagrostis rubescens Buckl.[‡]
Calamovilfa longifolia (Hook.) Scribn.
Danthonia parryi Scribn.
Deschampsia cespitosa (L.) Beauv. ssp. *cespitosa*
Elymus canadensis L.
Elymus piperi Bowden
Festuca campestris Rydb.
Festuca idahoensis Elmer
Festuca saximontana Rydb.
Glyceria striata (Lam) A.S. Hitchc. ssp. *stricta* (Scribn.)
 Hult.
Helictotrichon hookeri (Scribn.) Henr.
Hordeum jubatum L.
Koeleria macrantha (Ledeb.) J.A. Schultz f.
Muhlenbergia cuspidata (Torr.) Rydb.
Muhlenbergia richardsonis (Trin.) Rydb.[‡]
Oryzopsis hymenoides (R. & S.) Ricker
Oryzopsis micrantha (Trin. & Rupr.) Thurber[‡]

Grass Family

northern wheat grass
 western wheat grass
 bluebunch wheat grass
 slender wheat grass
 awned slender wheat grass

 redtop
 water foxtail
 slough grass
 buffalo grass
 California brome
 awnless brome
 plains reed grass
 pine grass
 sand grass
 Parry oat grass
 tufted hair grass
 Canada wild rye
 giant wild rye
 rough fescue
 bluebunch fescue
 rocky mountain fescue
 fowl manna grass

 Hooker's oat grass
 foxtail barley
 june grass
 plains muhly
 mat muhly
 Indian rice grass
 small-flowered rice grass

* Introduced

** Reported by Hardy Associates (1978) Ltd. (1986)

† Rare in Alberta (COSEWIC 1989)

‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Gramineae (continued)

Phalaris arundinacea L.

Poa canbyi (Scribn.) Piper

Poa compressa L.*

Poa cusickii Vasey

Poa interior Rydb.

Poa juncifolia Scribn.

Poa palustris L.

Poa pratensis L.

Poa sandbergii Vasey

Puccinellia nuttalliana (Schult.) A.S. Hitchc.

Schizachne purpurascens (Torr.) Swallen ssp.

purpurascens[‡]

Stipa comata Trin. & Rupr. var. *comata*

Stipa curtisetata (A.S. Hitchc.) Barkworth

Stipa viridula Trin.

reed canary grass

Canby blue grass

Canada blue grass

early blue grass, Cusick blue grass

alkali blue grass

fowl blue grass

Kentucky bluegrass

Sandberg blue grass

Nuttall's alkali grass

false melic

needle and thread grass

western porcupine grass

green needle grass

Cyperaceae

Carex athrostachya Olney[‡]

Carex aquatilis Wahlenb.

Carex filifolia Nutt.

Carex heliophila Mack.

Carex lanuginosa Michx.

Carex macloviana D'Urv.

Carex obtusata Lilj.

Carex praegracilis Boott

Carex rossii Boott

Carex rostrata Stokes (= *Carex utriculata* Boott)

Carex siccata Dewey

Carex sprengelii Dewey[‡]

Carex stenophylla Wahl. ssp. *eleocharis* (Bailey) Hult.[‡]

Carex viridula Michx.

Eleocharis palustris (L.) R. & S.

Sedge Family

slender-beaked sedge

water sedge

thread-leaved sedge

woolly sedge

Falkland Island sedge

blunt sedge

clustered field sedge

short-stemmed sedge

beaked sedge

hay-like sedge

Sprengel's sedge

green sedge

creeping spike-rush

* Introduced

** Reported by Hardy Associates (1978) Ltd. (1986)

† Rare in Alberta (COSEWIC 1989)

‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Cyperaceae (continued)*Scirpus microcarpus* Presl

small-fruited bulrush

Scirpus paludosus A. Nels.

prairie bulrush

Juncaceae*Juncus alpinoarticulatus* Chaix**Rush Family**

northern jointed rush

Juncus balticus Willd.

wire rush

Juncus torreyi Coville

Torry's rush

Liliaceae*Allium cernuum* Roth**Lily Family**

nodding onion

Allium textile Nels. & Macbr.

prairie onion

Disporum trachycarpum (S. Wats.) B. & H.

fairy-bells

Fritillaria pudica (Pursh) Spreng.

yellow-bell

Smilacina racemosa (L.) Desf. var. *amplexicaulis* (Nutt.)

false Solomon's-seal

S. Wats.

Smilacina stellata (L.) Desf.

star-flowered Solomon's-seal

Zigadenus elegans Pursh

white camas

Zigadenus venenosus S. Wats. var. *gramineus* (Rydb.)

death camas

Walsh

Iridaceae*Sisyrinchium montanum* Greene**Iris Family**

blue-eyed grass

Orchidaceae*Corallorhiza striata* Lindl.**Orchid Family**

striped coral-root

Corallorhiza trifida Châtelain

pale coral-root

Coeloglossum viride (L.) Hartm.

bracted orchid

Salicaceae*Populus angustifolia* James**Willow Family**

narrow-leaf cottonwood

Populus balsamifera L.

balsam poplar

Populus deltoides Marsh. var. *occidentalis* Rydb.

western cottonwood

* Introduced

** Reported by Hardy Associates (1978) Ltd. (1986)

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‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Salicaceae (continued)

Populus tremuloides Michx.

Salix bebbiana Sarg.

Salix exigua Nutt.

aspen

beaked willow

sandbar willow

Betulaceae

Alnus tenuifolia Nutt.

Betula occidentalis Hook.

Birch Family

river alder

water birch; black birch

Urticaceae

Urtica dioica L. ssp. *gracilis* (Ait.) Selander[‡]

common nettle

Santalaceae

Comandra umbellata (L.) Nutt.

Sandalwood Family

bastard toadflax

Polygonaceae

Eriogonum flavum Nutt.

Polygonum amphibium L.

Rumex triangulivalis (Dans.) Rech. f.

Buckwheat Family

yellow umbrella plant

water smartweed

narrow-leaved dock

Chenopodiaceae

Chenopodium capitatum (L.) Aschers.

Eurotia lanata (Pursh) Moq.

Goosefoot Family

strawberry blite

winter fat

Nyctaginaceae

Mirabilis hirsuta (Pursh) MacM.

umbrellawort

Caryophyllaceae

Cerastium arvense L.

Moehringia lateriflora (L.) Fenzl.

Paronychia sessiliflora Nutt.

Silene drummondii Hook.[‡]

Pink Family

mouse-ear chickweed

low whitlow-wort

Drummond's campion

* Introduced

** Reported by Hardy Associates (1978) Ltd. (1986)

‡ Rare in Alberta (COSEWIC 1989)

‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Ranunculaceae

- Actaea rubra* (Ait.) Willd.
Anemone cylindrica A. Gray
Anemone multifida Poir.
Anemone patens L.
Clematis ligusticifolia Nutt.
Clematis occidentalis (Hornem.) DC. var. *grosserrata* (Rydb.) Pringle
Delphinium bicolor Nutt.
Ranunculus abortivus L.
Ranunculus acris L.*
Ranunculus circinatus Sibth. var. *subrigidus* (Drew) L. Benson
Ranunculus cymbalaria Pursh
Ranunculus macounii Britt.
Thalictrum venulosum Trel.

Fumariaceae

- Corydalis aurea* Willd.

Cruciferae

- Arabis divaricarpa* A. Nels.
Arabis drummondii A. Gray[‡]
Arabis nuttallii Robinson
Cardaria pubescens (C.A. Mey.) Rollins*
Draba aurea Vahl
Erysimum cheiranthoides L.*
Erysimum inconspicuum (S. Wats.) Macm.
Lesquerella arenosa (Richards.) Rydb. var. *arenosa*
Physaria didymocarpa (Hook.) A. Gray
Rorippa palustris (L.) Besser[‡]

Saxifragaceae

- Heuchera parvifolia* Nutt. ex T. & G.

Crowfoot Family

- red (and white) baneberry
 long-fruited anemone
 cut-leaved anemone
 prairie crocus
 western clematis
 purple clematis

 low larkspur
 small-flowered crowfoot
 tall buttercup
 white water crowfoot

 creeping buttercup
 Macoun's buttercup
 veiny meadow rue

Fumitory Family

- golden corydalis

Mustard Family

- purple rock cress
 Drummond's rock cress
 rock cress
 globe-podded hoary cress
 golden draba
 wormseed mustard
 small-flowered rocket
 bladder-pod
 double bladder-pod
 yellow cress

Saxifrage Family

- alum-root

* Introduced

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‡ Rare in Alberta (COSEWIC 1989)

‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Grossulariaceae

Ribes hirtellum Michx.**

Ribes oxycanthoides L.

Rosaceae

Amelanchier alnifolia Nutt.

Chamaerhodos erecta (L.) Bunge ssp. *nutallii*

(Pickering) Hult.

Crataegus douglasii Lindl.** ‡

Crataegus rotundifolia Moench

Fragaria virginiana Duchesne ssp. *glauca* (S. Wats.)

Staudt.

Geum aleppicum Jacq.

Geum triflorum Pursh

Potentilla anserina L.

Potentilla arguta Pursh

Potentilla concinna Richards

Potentilla fruticosa L.

Potentilla gracilis Dougl. ex Hook.

Potentilla hippiana Lehm.

Potentilla norvegica L.

Potentilla pensylvanica L. (includes

P. bipinnatifida Dougl. ex Hook.)

Potentilla rivalis Nutt.†

Prunus virginiana L.

Rosa acicularis Lindl.**

Rosa arkansana Porter

Rosa woodsii Lindl.

Rubus idaeus L. ssp. *melanolasius* Focke

Spiraea betulifolia Pallas

Leguminosae

Astragalus aboriginum Richards.

Astragalus bisulcatus (Hook.) A. Gray

Gooseberry Family

wild gooseberry

wild gooseberry

Rose Family

Saskatoon

chamaerodos

Douglas hawthorn

round-leaf hawthorn

wild strawberry

yellow avens

three-flowered avens

silverweed

white cinquefoil

early cinquefoil

shrubby cinquefoil

graceful cinquefoil

woolly cinquefoil

rough cinquefoil

prairie cinquefoil

river cinquefoil

choke cherry

prickly rose

prairie rose

common wild rose

wild red raspberry

white meadowsweet

Pea Family

Indian milk vetch

two-grooved milk vetch

* Introduced

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‡ Rare in Alberta (COSEWIC 1989)

† Reported by Eastern Slopes Rangeland Consultants (1992)

Leguminosae (continued)

<i>Astragalus canadensis</i> L.	Canada milk vetch
<i>Astragalus crassicaarpus</i> Nutt.	ground plum
<i>Astragalus dasyglottis</i> Fisch. ex DC.	
<i>Astragalus drummondii</i> Dougl. ex Hook.	Drummond's milk vetch
<i>Astragalus flexuosus</i> Dougl. ex G. Don	slender milk vetch
<i>Astragalus gilviflorus</i> Sheldon	cushion milk vetch
<i>Astragalus missouriensis</i> Nutt.	Missouri milk vetch
<i>Astragalus pectinatus</i> Dougl. ex Hook.	narrow-leaved milk vetch
<i>Astragalus robbinsii</i> (Oakes) A. Gray var. <i>occidentalis</i> S. Wats.	Robbin's milk vetch
<i>Astragalus striatus</i> Nutt.	ascending purple milk vetch
<i>Astragalus tenellus</i> Pursh	loose-flowered milk vetch
<i>Astragalus vexilliflexus</i> Sheldon	bent-flowered milk vetch
<i>Glycyrrhiza lepidota</i> Pursh	wild licorice
<i>Hedysarum alpinum</i> L. ssp. <i>americanum</i> (Michx.) Fedtsch.	American sweetbroom
<i>Hedysarum boreale</i> Nutt. var. <i>boreale</i>	northern hedysarum
<i>Hedysarum sulphurescens</i> Rydb.	yellow hedysarum
<i>Lathyrus ochroleucus</i> Hook.	cream-flowered peavine
<i>Lupinus argenteus</i> Pursh	perennial lupine
<i>Lupinus sericeus</i> Pursh	perennial lupine
<i>Oxytropis monticola</i> A. Gray ssp. <i>monticola</i>	late yellow loco-weed
<i>Oxytropis sericea</i> Nutt. var. <i>spicata</i> (Hook.) Barneby	early yellow loco-weed
<i>Oxytropis splendens</i> Dougl. ex Hook.	showy loco-weed
<i>Petalostemon candidum</i> (Willd) Michx.	white prairie clover
<i>Petalostemon purpureum</i> (Vent.) Rydb.	purple prairie clover
<i>Psoralea esculenta</i> Pursh	Indian bread-root
<i>Thermopsis rhombifolia</i> (Nutt.) Richards.	buffalo bean
<i>Vicia americana</i> Muhl.	wild vetch

Geraniaceae

Geranium viscosissimum Fisch. & Mey.

Geranium Family

sticky purple geranium

* Introduced

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† Rare in Alberta (COSEWIC 1989)

‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Linaceae

Linum lewisii Pursh

Linum rigidum Pursh

Anacardiaceae

Rhus trilobata Nutt.

Malvaceae

Sphaeralcea coccinea (Pursh) Rydb.

Sphaeralcea munroana (Dougl.) Spach ex Gray*

Violaceae

Viola adunca J.E. Smith

Viola canadensis L. var. *rugulosa* (Greene) C.L. Hitchc.

Viola nephrophylla Greene

Viola nuttallii Pursh

Viola renifolia A. Gray**

Loasaceae

Mentzelia decapetala (Sims) Urban & Gilg

Cactaceae

Coryphantha vivipara (Nutt.) Britt. & Rose

Opuntia polyacantha Haw.

Elaeagnaceae

Elaeagnus commutata Bernh. ex Rydb.

Shepherdia argentea Nutt.

Shepherdia canadensis (L.) Nutt.

Onagraceae

Epilobium angustifolium L.

Epilobium ciliatum Raf. ssp. *glandulosum* (Lehm.) Hoch

& Raven

Flax Family

wild blue flax

yellow flax

Sumach Family

skunk bush

Mallow Family

scarlet mallow

Violet Family

early blue violet

western Canada violet

bog violet

yellow prairie violet

kidney-leaved violet

Loasa Family

sand lily; evening star

Cactus Family

cushion or ball cactus

prickly pear

Oleaster Family

wolf willow; silver-berry

thorny buffalo-berry

Canadian buffalo-berry

Evening Primrose Family

fireweed; great willow-herb

northern willow-herb

* Introduced

** Reported by Hardy Associates (1978) Ltd. (1986)

† Rare in Alberta (COSEWIC 1989)

‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Onagraceae (continued)*Epilobium latifolium* L. ssp. *latifolium**Gaura coccinea* Pursh*Oenothera biennis* L.*Oenothera flava* (A. Nels.) Garrett[‡]*Oenothera nuttallii* Sweet**

red willow-herb

scarlet butterfly-weed

yellow evening primrose

low yellow evening primrose; yellow lavauxia

white evening primrose

Umbelliferae*Angelica arguta* Nutt.*Carum carvi* L.**Heracleum lanatum* Michx.*Lomatium dissectum* (Nutt.) Mathias & Constance var.
*multifidum**Lomatium macrocarpum* (Hook. & Arn.) Coult. &
Rose[‡]*Lomatium triternatum* (Pursh) Coult. & Rose*Musineon divaricatum* (Pursh) Nutt.*Osmorhiza chilensis* Hook. & Arn.[‡]*Perideridia gairdneri* (Hook. & Arn.) Mathias*Sium saue* Walt.*Zizia aptera* (A. Gray) Fern.**Carrot Family**

white angelica

caraway

cow parsnip

fern-leaved lomatium

large-fruit lomatium

prairie parsley

leafy musineon

sweet cicely

squaw-root; yampa

water parsnip

meadow parsnip; heart-leaved alexanders

Cornaceae*Cornus stolonifera* Michx.**Dogwood Family**

red osier; dogwood; kinnikinnick

Ericaceae*Arctostaphylos uva-ursi* (L.) Spreng.**Heath Family**

common bearberry; kinnikinnick

Primulaceae*Androsace chamaejasme* Host***Androsace occidentalis* Pursh[‡]*Androsace septentrionalis* L.*Dodecatheon conjugens* Greene**Primrose Family**

sweet-flowered androsace

fairy candelabra; western pygmy-flower

fairy candelabra

shooting star

* Introduced

** Reported by Hardy Associates (1978) Ltd. (1986)

‡ Rare in Alberta (COSEWIC 1989)

‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Gentianaceae

Gentianella amarella (L.) Börner ssp. *acuta* (Michx.) Gillett.

Gentian Family

felwort

Apocynaceae

Apocynum androsaemifolium L.

Apocynum cannabinum L.

Apocynum × *medium* Greene[‡]

Dogbane Family

spreading dogbane

Indian hemp

dogbane

Convolvulaceae

Convolvulus sepium L.

Morning-glory Family

wild morning-glory

Polemoniaceae

Collomia linearis Nutt.

Phlox hoodii Richards.

Polemonium pulcherrimum Hook.

Phlox family

collomia

moss phlox

Jacob's-ladder

Hydrophyllaceae

Hydrophyllum capitatum Dougl. ex Hook.[‡]

Phacelia franklinii (R.Br.) A. Gray[‡]

Waterleaf Family

woollen-breeches

scorpion weed

Boraginaceae

Cryptantha nubigena (Greene) Payson var. *celosioides* (Eastw.) Boivin

Hackelia floribunda (Lehm.) I.M. Johnston

Lithospermum incisum Lehm.

Lithospermum ruderales Lehm.

Borage Family

sierra cryptantha

many-flowered stick-seed

narrow-leaved puccoon

yellow puccoon

Labiatae

Mentha arvensis L.

Monarda fistulosa L. var. *menthifolia* (Grah.) Fern.

Prunella vulgaris L. ssp. *lanceolata* (Bart.) Hult.

Stachys palustris L. ssp. *pilosa* (Nutt.) Epling

Mint Family

wild mint

wild bergamot

heal-all

hedge nettle

* Introduced

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‡ Rare in Alberta (COSEWIC 1989)

‡ Reported by Eastern Slopes Rangeland Consultants (1992)

Scrophulariaceae

- Besseyia wyomingensis* (A. Nels.) Rydb.
Castilleja lutescens (Greenm.) Rydb.
Castilleja miniata Dougl. ex Hook.
Gratiola neglecta Torr.
Limosella aquatica L.
Orthocarpus luteus Nutt.
Penstemon confertus Dougl.
Penstemon eriantherus Pursh[†]
Penstemon nitidus Dougl. ex Benth.
Penstemon procerus Dougl. ex Grah.
Veronica americana (Raf.) Schw.

Orobanchaceae

- Orobanche fasciculata* Nutt.

Plantaginaceae

- Plantago canescens* Adams

Rubiaceae

- Galium boreale* L.

Caprifoliaceae

- Symphoricarpos albus* (L.) Blake^{**}
Symphoricarpos occidentalis Hook.

Campanulaceae

- Campanula rotundifolia* L.

Compositae

- Achillea millefolium* L.
Agoseris glauca (Pursh) Raf. var. *glauca*
Antennaria anaphaloides Rydb.

Figwort Family

- kitten-tails
 yellow paint-brush
 common red paint-brush
 common American hedge-hyssop
 mudwort
 owl-clover
 yellow beard-tongue
 crested beard-tongue
 smooth blue beard-tongue
 slender blue beard-tongue
 American brooklime

Broom-rape Family

- clustered broom-rape

Plantain Family

- plantain

Madder Family

- northern bedstraw

Honeysuckle Family

- snowberry
 buckbrush; wolfberry

Bluebell Family

- bluebell; harebell

Composite Family

- common yarrow
 false dandelion
 pussy toes; tall everlasting

* Introduced

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Compositae (continued)

<i>Antennaria aprica</i> Greene	pussy toes; everlasting
<i>Antennaria parvifolia</i> Nutt.	pussy toes; small-leaved everlasting
<i>Antennaria rosea</i> Greene	pink pussy toes
<i>Arnica cordifolia</i> Hook. [‡]	heart-leaf arnica
<i>Arnica fulgens</i> Pursh	shining arnica
<i>Arnica sororia</i> Greene	twin arnica
<i>Artemisia biennis</i> Willd.	biennial sagewort
<i>Artemisia campestris</i> L.	field sage
<i>Artemisia campestris</i> L. ssp. <i>caudata</i> (Michx.) H. & C.	field sage
<i>Artemisia dracunculus</i> L.	dragonwort
<i>Artemisia frigida</i> Willd.	pasture sagewort
<i>Artemisia ludoviciana</i> Nutt.	prairie sagewort
<i>Aster campestris</i> Nutt. [†]	meadow aster
<i>Aster ciliolatus</i> Lindl.	Lindley's aster
<i>Aster conspicuus</i> Lindl.	showy aster
<i>Aster ericoides</i> L. ssp. <i>pansus</i> (Blake) Cronq.	tufted white prairie aster
<i>Aster hesperius</i> A. Gray	western willow aster
<i>Aster laevis</i> L.	smooth aster
<i>Aster subspicatus</i> Nees	
<i>Balsamorhiza sagittata</i> (Pursh) Nutt.	balsam-root
<i>Cirsium undulatum</i> (Nutt.) Spreng.	wavy-leaved thistle
<i>Crepis atrabarba</i> Heller [‡]	slender hawksbeard
<i>Crepis occidentalis</i> Nutt. [†]	western hawksbeard
<i>Erigeron annuus</i> (L.) Pers. var. <i>septrionalis</i> (Fern. & Wieg.) Wagenitz.	annual fleabane
<i>Erigeron caespitosus</i> Nutt.	tufted fleabane
<i>Erigeron compositus</i> Pursh	compound fleabane
<i>Erigeron glabellus</i> Nutt. var. <i>pubescens</i> (Hook.) Cronq.	smooth fleabane
<i>Erigeron speciosus</i> (Lindl.) DC.	showy fleabane
<i>Gaillardia aristata</i> Pursh	gaillardia; blanket flower
<i>Grindelia squarrosa</i> (Pursh) Dunal	gumweed
<i>Gutierrezia sarothrae</i> (Pursh) Britt. & Rusby	broomweed

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Compositae (continued)

<i>Haplopappus lanceolatus</i> (Hook.) T. & G.**	lance-leaved pyrrocoma
<i>Haplopappus spinulosus</i> (Pursh) DC.	spiny iron plant
<i>Helianthus annuus</i> L. ssp. <i>lenticularis</i> (Lindl.) Cockerell	common annual sunflower
<i>Helianthus subrhomboides</i> Rydb.	rhombic-leaved sunflower
<i>Heterotheca villosa</i> (Pursh) Shinnars	golden aster
<i>Hymenopappus filifolius</i> Hook.†	tufted hymenopappus
<i>Hymenoxys acaulis</i> (Pursh) Parker	butte marigold
<i>Hymenoxys richardsonii</i> (Hook.) Cockerell	Colorado rubber-plant
<i>Lactuca pulchella</i> (Pursh) DC.	common blue lettuce
<i>Liatris punctata</i> Hook.	dotted blazing star
<i>Lygodesmia juncea</i> (Pursh) D. Don	skeleton-weed; prairie pink
<i>Madia glomerata</i> Hook.	tarweed
<i>Ratibida columnifera</i> (Nutt.) Wooton & Standl.	prairie cone-flower
<i>Senecio canus</i> Hook.	prairie groundsel
<i>Senecio integerrimus</i> Nutt. var. <i>exaltatus</i> (Nutt.) Cronq.	entire-leaved groundsel
<i>Senecio pauperculus</i> Michx.	balsam groundsel
<i>Solidago gigantea</i> Ait. var. <i>serotina</i> (Ait.) Cronq.	late goldenrod
<i>Solidago missouriensis</i> Nutt.	Missouri goldenrod
<i>Stephanomeria runcinata</i> Nutt.‡	runcinate-leaved stephanomeria
<i>Townsendia hookeri</i> Beaman	Hooker's townsendia
<i>Townsendia parryi</i> D.C. Eat.	Parry's townsendia
<i>Xanthium strumarium</i> L.ˆ	cocklebur

ˆ Introduced

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