

APPENDIX A - PLANTS OF KOOTENAY NATIONAL PARK

This list is based on collections made during the ecological land classification and those in the KNP herbarium. Nomenclature for vascular plants follows primarily Packer (1983) and Hitchcock and Cronquist (1973), for liverworts Stotler and Crandall-Stotler (1977), for mosses Crum *et al.* (1973), and for lichens Hale and Culberson (1970) and Hawksworth *et al.* (1980). KNP has a total of 677 vascular taxa, 27 liverwort taxa, 133 moss taxa and 156 lichen taxa.

LYCOPODIOPHYTA

LYCOPODIACEAE

- Lycopodium alpinum* L.
- Lycopodium annotinum* L.
- Lycopodium clavatum* L.
- Lycopodium complanatum* L.
- * *Lycopodium selago* L. VAR. *Montanum*
- Lycopodium sitchense* Rupr.

SELAGINELLACEAE

- Selaginella densa* Rydb.
- Selaginella selaginoides* (L.) Link

EQUISETOPHYTA

EQUISETACEAE

- Equisetum arvense* L.
- Equisetum fluviatile* L.
- Equisetum hyemale* L.
- Equisetum pratense* Ehrh.
- Equisetum scirpoides* Michx.
- Equisetum sylvaticum* L.
- Equisetum variegatum* Schleich.

POLYPODIOPHYTA

OPHIOGLOSSACEAE

- Botrychium lunaria* (L.) Sw.
- Botrychium matricariaefolium* (Doell) A. Br.
- Botrychium virginianum* (L.) Sw.

POLYPODIACEAE

- Asplenium viride* Huds.
- Athyrium filix-femina* (L.) Roth
- * *Cheilanthes feei* Moore

- ✧ *Cystopteris fragilis* (L.) Bernh.
- ✧ *Cystopteris montana* (Lam.) Desv.
- Dryopteris assimilis* S. Walker
- Gymnocarpium dryopteris* (L.) Newm.
- Pellaea glabella* Mett. ex Kuhn
- Polystichum lonchitis* (L.) Roth
- Woodsia oregana* Eat.
- Woodsia scopulina* Eat.

PINOPHYTA

CUPRESSACEAE

- Juniperus communis* L.
- Juniperus horizontalis* Moench
- Juniperus scopulorum* Sarg.
- Thuja plicata* Don

PINACEAE

- Abies lasiocarpa* (Hook.) Nutt.
- Larix lyallii* (DuRoi) Koch
- Larix occidentalis* Nutt.
- Picea engelmannii* Parry
- Picea glauca* (Moench) Voss
- Pinus albicaulis* Engelm.
- Pinus contorta* Loud. var. *latifolia* Engelm.
- ✧ *Pinus flexilis* James
- Pinus ponderosa* Dougl. ex Lawson
- Pseudotsuga menziesii* (Mirb.) Franco var. *glauca* (Beissn.) Franco
- Tsuga heterophylla* (Raf.) Sarg.

MAGNOLIOPHYTA

MAGNOLIATAE

ACERACEAE

- Acer glabrum* Torr. var. *douglasii* (Hook.) Dippel

APOCYNACEAE

- Apocynum androsaemifolium* L.

ARALIACEAE

- Aralia nudicaulis* L.
- Oplopanax horridum* (Sm.) Miq.

BERBERIDACEAE

Berberis repens Lindl.

BETULACEAE

Alnus crispa (Ait.) Pursh = *A. viridis* (Chaix) DC. ssp. *crispa* (Ait.) Turr.

Betula glandulosa Michx.

Betula occidentalis Hook.

Betula papyrifera Marshall

Betula pumila L. var. *glandulifera* Regel

Betula x sargentii Dugle

BORAGINACEAE

Cynoglossum officinale L.

✧ *Hackelia floribunda* (Lehm.) Johnston

Hackelia jessicae (McGreg.) Brand

Lappula echinata Gilib. = *L. squarrosa* (Retz.) Dumort.

✧ *Lithospermum incisum* Lehm.

Lithospermum ruderale Douglas ex Lehm.

Mertensia longiflora Greene

Myosotis alpestris Schm.

CAMPANULACEAE

Campanula rotundifolia L.

CAPRIFOLIACEAE

Linnaea borealis L.

✧ *Lonicera dioica* L.

Lonicera involucrata (Rich.) Banks

Lonicera utahensis Wats.

Sambucus coerulea Raf.

Sambucus racemosa L. var. *melanocarpa* (Gray) McMinn

Symphoricarpos albus (L.) Blake

Symphoricarpos occidentalis Hook.

Viburnum edule (Michx.) Raf.

CARYOPHYLLACEAE

Arenaria capillaris Poir.

Arenaria lateriflora L. = *Moehringia lateriflora* (L.) Fenzl.

Cerastium arvense L.

Cerastium beeringianum Cham. & Schl.

Cerastium vulgatum L.

Minuartia biflora (L.) Schinz. & Thell. = *Arenaria sajanensis* Willd.

✧ *Minuartia dawsonensis* (Britt.) House

Minuartia elegans (C. & S.) Schischk. = *Arenaria rossii* R.Br.

✧ *Minuartia nuttallii* (Pax) Briq. = *Arenaria nuttallii* Pax

Minuartia obtusiloba (Rydb.) House = *Arenaria obtusiloba* (Rydb.) Fern.

- Minuartia rubella* (Wahl.) Graebn. = *Arenaria rubella* (Wahl.) Smith
Silene acaulis L.
 * *Silene drummondii* Hook. = *Lychnis drummondii* (Hook.) Wats.
Silene menziesii Hook.
Silene parryi (Wats.) Hitchc. & Mag.
Silene scouleri Hook.
 * *Silene uralensis* (Rupr.) Bocq. = *Lychnis apetala* L. subsp.
Stellaria calycantha (Ledeb.) Bong.
 * *Stellaria longipes* Goldie var. *Stellaria* ?

CELASTRACEAE

- Pachystima myrsinites* (Pursh) Raf.

CHENOPODIACEAE

- Chenopodium album* L.
Chenopodium capitatum (L.) Aschers.
Chenopodium fremontii Wats.

COMPOSITAE

- Achillea millefolium* L.
Agoseris aurantiaca (Hook.) Greene
Agoseris glauca (Pursh) Raf.
Anaphalis margaritacea (L.) Benth. & Hook.
Antennaria alpina (L.) Gaertn.
Antennaria anaphaloides Rydb.
Antennaria corymbosa Nels.
Antennaria lanata (Hook.) Greene
 * *Antennaria neglecta* Greene var.
Antennaria nitida Greene = *A. microphylla* Rydb.
Antennaria parvifolia Nutt.
Antennaria pulcherrima (Hook.) Greene
Antennaria racemosa Hook.
Antennaria rosea Greene
Antennaria umbrinella Rydb.
Anthemis tinctoria L.
Arnica alpina (L.) Olin = *A. angustifolia* Vahl
Arnica cordifolia Hook.
Arnica latifolia Bong.
 * *Arnica louiseana* FARR subsp.
Arnica mollis Hook.
Arnica parryi Gray
Arnica rydbergii Greene
Arnica sororia Greene
Artemisia campestris L.
 * *Artemisia cana* Pursh
Artemisia dracunculus L.
Artemisia frigida Willd.
Artemisia michauxiana Bess.
Aster alpinus L. var. *vierhapperi* Onno
Aster borealis (Torr. & Gray) Prov.
Aster campestris Nutt.
Aster ciliolatus Lindl.
Aster conspicuus Lindl.
Aster ericoides L.

- Aster engelmannii* (D.C. Eat.) Gray
Aster foliaceus Lindl. = *A. subspicatus* Nees
Aster laevis L.
Aster laevis Lindl.
Aster sibiricus L.
Balsamorhiza sagittata (Pursh) Nutt.
Chrysanthemum leucanthemum L.
Chrysopsis villosa (Pursh) Nutt. = *Heterotheca villosa* (Pursh) Shinnars
Chrysothamnus nauseosus (Pall.) Britt.
Cirsium arvense (L.) Scop.
Cirsium hookerianum Nutt.
Cirsium undulatum (Nutt.) Spreng.
Crepis atrabarba Heller
Crepis elegans Hook.
Crepis nana Richards.
Erigeron acris L.
Erigeron aureus Greene
Erigeron compositus Pursh VAR. *ASTO* ?
Erigeron corymbosus Nutt.
Erigeron elatus Hook.
Erigeron filifolius (Hook.) Nutt.
Erigeron glabellus Nutt.
Erigeron humilis Graham
Erigeron lanatus Hook.
Erigeron lonchophyllus Hook.
Erigeron pallens Cronq. = *E. purpuratus* Greene ssp. *pallens* (Cronq.) G. Douglas
Erigeron peregrinus (Pursh) Greene
Erigeron pumilus Nutt.
Gaillardia aristata Pursh
Haplopappus lyallii Gray
Helenium autumnale L. var. *grandiflorum* (Nutt.) Torr. & Gray
Hieracium albertinum Farr = *H. cynoglossoides* Arv.-Touv.
Hieracium albidiflorum Hook.
Hieracium canadense Michx.
Hieracium triste Willd. ssp. *gracile* (Hook.) Calder and Taylor = *H. gracile* Hook.
Hieracium umbellatum L.
Lactuca pulchella (Pursh) DC. = *L.p.* ssp. *tatarica* (Pursh) Stebbins
Lactuca serriola L.
Lygodesmia juncea (Pursh) Don
Matricaria matricarioides (Less.) Porter
Petasites palmatus (Ait.) Gray
Petasites sagittatus (Banks) Gray
Petasites vitiifolius Greene
Rudbeckia hirta L.
Saussurea densa (Hook.) Rydb. = *S. nuda* Ledeb. var. *densa* (Hook.) Hult.
Senecio canus Hook.
Senecio congestus (R. Br.) DC.
Senecio fremontii Torr. & Gray
Senecio integerrimus Nutt. var. *exaltatus* (Nutt.) Cronq.
Senecio lugens Richards.
Senecio pauperculus Michx.
Senecio pseud aureus Rydb.
Senecio streptanthifolius Greene
Senecio triangularis Hook.
Solidago canadensis L.
Solidago missouriensis Nutt.
Solidago multiradiata Ait.
Solidago nemoralis Ait. VAR. *ASTO* ?
Solidago rigida L. var. *humilis* Porter
Solidago spathulata DC. var. *nana* (Gray) Cronq. = *S. decumbens* Greene
Solidago spathulata DC. var. *neomexicana* (Gray) Cronq.
Sonchus arvensis L.
Sonchus uliginosus Bieb.

Stephanomeria tenuifolia (Torr.) Hall = *S. runcinata* Nutt.
Taraxacum ceratophorum (Ledeb.) DC.
Taraxacum laevigatum (Willd.) DC.
Taraxacum lyratum (Ledeb.) DC.
Taraxacum officinale Weber
* *Townsendia hookeri* Beaman
Tragopogon dubius Scop.

CORNACEAE

Cornus canadensis L.
Cornus stolonifera Michx.

CRASSULACEAE

Sedum lanceolatum Torr.
Sedum roseum (L.) Scop.

CRUCIFERAE

Arabis divaricarpa Nels.
Arabis drummondii Gray
Arabis glabra (L.) Bernh.
Arabis hirsuta (L.) Scop.
Arabis holboellii Hornem.
Arabis lemmonii Wats.
Arabis lyallii Wats.
Arabis lyrata L.
* *Arabis nuttallii* Robins.
Brassica campestris L.
Braya humilis (C.A. Meyer) Robins.
Capsella bursa-pastoris (L.) Medic.
Cardamine breweri Wats.
Cardamine oligosperma Nutt.
Descurainia pinnata (Walt.) Britt.
Descurainia richardsonii (Sweet) O.E. Schulz
Descurainia sophia (L.) Webb
Draba albertina Greene
Draba aurea Vahl
Draba borealis DC.
Draba cana Rydb.
Draba crassifolia Grah.
Draba incerta Payson
Draba lonchocarpa Rydb. var. *lonchocarpa*
Draba oligosperma Hook.
Draba paysonii Macbr.
* *Draba porsildii* Mulligan
Draba praealta Greene
Draba stenoloba Ledeb.
Erucastrum gallicum (Willd.) Schulz
Erysimum asperum (Nutt.) DC.
Erysimum cheiranthoides L.
Erysimum inconspicuum (Wats.) MacM.
Lepidium densiflorum Schrad.
Lepidium ramosissimum Nels.
Lesquerella douglasii Wats.
Physaria didymocarpa (Hook.) Gray

Rorippa islandica (Oeder) Borbas. = *R. palustris* (L.) Besser
Sisymbrium altissimum L.

DROSERACEAE

Drosera anglica Huds.

ELAEAGNACEAE

Elaeagnus commutata Bernh. ex Rydb.
Shepherdia canadensis (L.) Nutt.

EMPETRACEAE

Empetrum nigrum L.

ERICACEAE

Arctostaphylos rubra Rehd. & Wils.
Arctostaphylos uva-ursi (L.) Spreng.
Cassiope mertensiana (Bong.) Don
Cassiope tetragona (L.) Don var. *saximontana* (Small) Hitchc.
Gaultheria hispidula (L.) Muhl.
* *Gaultheria humifusa* (Graham) Rydb.
Gaultheria ovatifolia Gray
Kalmia polifolia Wang. var. *microphylla* (Hook.) Heller
Ledum glandulosum Nutt.
Ledum groenlandicum Oeder
Menziesia glabella Gray = *M. ferruginea* Smith var. *glabella* (Gray) Peck
Oxycoccus microcarpus Turcz.
Phyllodoce empetriiformis (Sm.) Don
Phyllodoce glanduliflora (Hook.) Coville
Phyllodoce x intermedia (Hook.) Camp
Rhododendron albi-florum Hook.
Vaccinium caespitosum Michx.
Vaccinium membranaceum Dougl. ex Hook.
Vaccinium myrtilloides Michx.
* *Vaccinium myrtillus* L.
Vaccinium ovalifolium Sm.
Vaccinium scoparium Leiberg
Vaccinium vitis-idaea L.

FUMARIACEAE

Corydalis aurea Willd.

GENTIANACEAE

Gentianella amarella (L.) Borner
Gentianella propinqua (Richards.) Gillett
Halenia deflexa (Sm.) Griseb.

GERANIACEAE

Geranium bicknellii Britt.
Geranium richardsonii Fisch. & Trautv.
Geranium viscosissimum Fisch. & Mey.

HALORAGACEAE

Myriophyllum exalbescens Fern.

HYDROPHYLLACEAE

Phacelia hastata Dougl. ex Lehm. = *P. heterophylla* Pursh
Phacelia sericea (Graham) Gray
Romanzoffia sitchensis Bong.

LABIATAE

Mentha arvensis L.
Prunella vulgaris L.

LEGUMINOSAE

- * *Astragalus aboriginum* Richards.
- Astragalus alpinus* L.
- Astragalus americanus* (Hook.) Jones
- * *Astragalus bourgovii* Gray
- Astragalus dasyglottis* Fisch. ex DC. = *A. agrestis* Dougl. ex Hook.
- Astragalus eucosmus* Robins.
- * *Astragalus lotiflorus* Hook.
- Astragalus miser* Dougl. var. *serotinus* (Gray) Barneby = *A. decumbens* (Nutt.) Gray
- * *Astragalus robbinsii* (Oakes) Gray var. *occidentalis* Wats.
- Hedysarum boreale* Nutt.
- Hedysarum sulphurescens* Rydb.
- Lathyrus ochroleucus* Hook.
- Lupinus polyphyllus* Lindley
- Medicago lupulina* L.
- Medicago sativa* L.
- Melilotus alba* Desr.
- Melilotus officinalis* (L.) Lam.
- * *Oxytropis campestris* (L.) DC. VAR. *arida* DC.
- Oxytropis deflexa* (Pall.) DC.
- Oxytropis leucantha* (Pall.) Pers.
- * *Oxytropis podocarpa* Gray
- Oxytropis sericea* Nutt.
- * *Thermopsis rhombifolia* (Nutt.) Richards.
- Trifolium aureum* Poll. = *T. agrarium* L.
- Trifolium hybridum* L.
- Trifolium pratense* L.
- Vicia americana* Muhl.
- Vicia cracca* L.

LENTIBULARIACEAE

- ♂ *Pinguicula vulgaris* L. var. *alpinus*
Utricularia minor L.

LINACEAE

- Linum lewisii* Pursh

LOBELIACEAE

- Lobelia kalmii* L.

MENYANTHACEAE

- Menyanthes trifoliata* L.

ONAGRACEAE

- Circaea alpina* L.
Epilobium alpinum L. var. *alpinum* = *E. anagallidifolium* Lam.
Epilobium alpinum L. var. *clavatum* (Trel.) Hitchc. = *E. clavatum* Trel.
Epilobium alpinum L. var. *lactiflorum* (Haussk.) Hitchc. = *E. lactiflorum* Haussk.
Epilobium alpinum L. var. *nutans* (Hornem.) Hitchc. = *E. hornemannii* Reichenb.
Epilobium angustifolium L.
✓ *Epilobium glaberrimum* Barbey *var. alpinum*
Epilobium glandulosum Lehm. = *E. ciliatum* Raf.
Epilobium latifolium L.
Epilobium palustre L.
Epilobium paniculatum Nutt.
Epilobium watsonii (Trel.) Hitchc. var. *occidentale* Barbey

OROBANCHACEAE

- Orobanche fasciculata* Nutt.

PLANTAGINACEAE

- Plantago major* L.

POLEMONIACEAE

- Polemonium pulcherrimum* Hook.

POLYGONACEAE

Eriogonum umbellatum Torr. = *E. subalpinum* Greene
Oxyria digyna (L.) Hill
Polygonum amphibium L. var. *stipulaceum* (Coleman) Fern.
Polygonum viviparum L.

PORTULACACEAE

Claytonia lanceolata Pursh

PRIMULACEAE

Androsace septentrionalis L.
Dodecatheon conjugens Greene
Dodecatheon pulchellum (Raf.) Merr. = *D. radicum* Greene
Primula mistassinica Michx.

PYROLACEAE

Chimaphila umbellata (L.) Bart.
Moneses uniflora (L.) Gray
Pyrola asarifolia Michx.
Pyrola chlorantha Sw. = *P. virens* Schweig.
* *Pyrola elliptica* L.
Pyrola minor L.
Pyrola secunda L. = *Orthilia secunda* (L.) House

RANUNCULACEAE

Actaea rubra (Ait.) Willd.
Anemone drummondii Wats.
Anemone multifida Poir.
Anemone occidentalis Wats.
Anemone parviflora Michx.
Anemone patens L.
Aquilegia brevistyla Hook.
Aquilegia flavescens Wats.
* *Caltha leptosepala* DC. — VARIETY ?
Clematis tangutica (Max.) Korsh.
Clematis verticellaris DC. var. *columbiana* (Nutt.) Gray
* *Delphinium bicolor* Nutt.
Delphinium glaucum Wats.
Delphinium nuttallianum Pritz. ex Walp.
Ranunculus abortivus L.
Ranunculus acris L.
Ranunculus cymbalaria Pursh
* *Ranunculus eschscholtzii* Schlecht. VARIETY ✓
* *Ranunculus inamoenus* Greene
Ranunculus occidentalis Nutt.
* *Ranunculus pedatifidus* J.E. Smith
* *Ranunculus pygmaeus* Wahl.
Ranunculus reptans L. = *R. flammula* L.
* *Ranunculus verecundus* B.L. Robins.

Thalictrum occidentale Gray
Thalictrum venulosum Trel.
Trollius albiflorus (Gray) Rydb.

RHAMNACEAE

Ceanothus sanguineus Pursh
Ceanothus velutinus Dougl. ex Hook.

ROSACEAE

Amelanchier alnifolia Nutt.
Dryas drummondii Richards.
Dryas octopetala L. var. *hookeriana* (Juz.) Breit.
Fragaria virginiana Duchesne var. *glauca* Wats.
Geum allepicum Jacq.
Geum macrophyllum Willd. var. *perincisum* (Rydb.) Raup
Geum triflorum Pursh
Luetkea pectinata (Pursh) Kuntze
Potentilla anserina L.
Potentilla diversifolia Lehm.
Potentilla fruticosa L.
Potentilla gracilis Dougl. ex Hook.
✳ *Potentilla hyparctica* Malte
Potentilla nivea L.
Potentilla norvegica L.
Potentilla palustris (L.) Scop.
Potentilla pensylvanica L.
Prunus virginiana L.
Rosa acicularis Lindl.
Rosa woodsii Lindl.
Rubus acaulis Michx. = *R. arcticus* L. ssp. *acaulis* (Michx.) Focke
Rubus idaeus L. = *R. strigosus* Michx.
Rubus parviflorus Nutt.
Rubus pedatus Smith
Rubus pubescens Raf.
Sibbaldia procumbens L.
Sorbus scopulina Greene
Spiraea lucida Dougl. = *Spiraea betulifolia* Pallas var. *lucida* (Dougl.) Hitchc.

RUBIACEAE

Galium boreale L.
Galium trifidum L.
Galium triflorum Michx.

SALICACEAE

Populus x brayshawii Boivin (*Populus angustifolia* James x *Populus balsamifera* L.)
Populus balsamifera L. ssp. *trichocarpa* (Torr. & Gray) Brayshaw
Populus tremuloides Michx.
Salix arctica Pallas
Salix barclayi Anders.
Salix barrattiana Hook.
Salix bebbiana Sarg.

Salix brachycarpa Nutt. ssp. *brachycarpa*
Salix candida Fleuge ex Willd.
Salix commutata Bebb
Salix drummondiana Barr. ex Hook.
Salix farriarum Ball
Salix glauca L. var. *villosa* (Hook.) Anders.
Salix melanopsis Nutt.
Salix myrtillofolia Anders.
Salix nivalis Hook. = *S. reticulata* L. var. *nivalis* (Hook.) Anders.
Salix proluxa Anders.
Salix pseudomonticola Ball
Salix scouleriana Barr. ex Hook.
Salix vestita Pursh

SANTALACEAE

Commandra pallida A. DC.
Geocaulon lividum (Richards.) Fern.

SAXIFRAGACEAE

Heuchera cylindrica Dougl. ex Hook.
Leptarrhena pyrolifolia (Don) R. Br.
Lithophragma parviflora (Hook.) Nutt.
Mitella breweri Gray
Mitella nuda L.
Mitella pentandra Hook.
Mitella trifida Graham
Parnassia fimbriata König
Parnassia palustris L.
Parnassia parviflora DC.
Ribes hirtellum Michx.
Ribes hudsonianum Richards.
Ribes lacustre (Pers.) Poir.
Ribes laxiflorum Pursh
Ribes oxyacanthoides L. VARIATION
Ribes viscosissimum Pursh
Saxifraga adscendens L.
Saxifraga aizoides L.
Saxifraga bronchialis L.
Saxifraga caespitosa L.
Saxifraga cernua L.
Saxifraga debilis Engelm. = *S. rivularis* L.
Saxifraga ferruginea Graham
Saxifraga lyallii Engl.
Saxifraga occidentalis Wats.
Saxifraga oppositifolia L.
Saxifraga rhomboidea Greene
Tiarella unifoliata Hook.

SCROPHULARIACEAE

Castilleja cervina Greenm.
Castilleja hispida Benth.
Castilleja miniata Dougl. ex Hook.
Castilleja occidentalis Torr.
Castilleja rhexifolia Rydb.

Castilleja septentrionalis Lindl. = *C. lutescens* (Greenm.) Rydb.
Collinsia parviflora Dougl.
Melampyrum lineare Desf.
Pedicularis bracteosa Benth.
 * *Pedicularis contorta* Benth.
Pedicularis racemosa Dougl.
Penstemon confertus Dougl.
Penstemon ellipticus Coult. & Fish.
 * *Penstemon eriantherus* Pursh
Penstemon fruticosus (Pursh) Greene
Veronica alpina L.
Veronica americana (Raf.) Schw.

UMBELLIFERAE

Cicuta maculata L. = *C. douglasii* (DC.) Coult. & Rose
Heracleum lanatum Michx.
Lomatium dissectum (Nutt.) Math. & Const.
Lomatium macrocarpum (Hook. & Arn.) Coult. & Rose
Lomatium triternatum (Pursh) Coult. & Rose
Osmorhiza chilensis Hook. & Arn.
Osmorhiza depauperata Phil.
Osmorhiza purpurea (Coult. & Rose) Suksd.
Sanicula marilandica L.

URTICACEAE

Urtica dioica L. ssp. *gracilis* (Ait.) Selander

VALERIANACEAE

* *Valeriana sitchensis* Bong. *VALER*

VIOLACEAE

Viola adunca J.E. Smith
Viola glabella Nutt.
Viola nephrophylla Greene
Viola orbiculata Geyer ex Hook.
Viola palustris L.
Viola renifolia Gray
Viola rugulosa Greene = *V. canadensis* L. var. *rugulosa* (Greene) Hitchc.

LILIATAE

CYPERACEAE

Carex aenea Fern.
Carex albo-nigra Mack.
Carex aquatilis Wahl.
Carex atherodes Spreng.
Carex atosquama Mack.

Carex aurea Nutt.
Carex bebbi Olney ex Fern.
Carex brunnescens (Pers.) Poir.
Carex buxbaumii Wahl.
Carex capillaris L.
Carex concinna R.Br.
Carex concinnoides Mack.
 † *Carex crawei* Dewey
Carex deweyana Schw.
Carex diandra Schrank
Carex disperma Dewey
Carex eburnea Boott
Carex flava L.
Carex garberi Fern. var. *bifaria* Fern.
Carex gynocrates Wormskj.
Carex haydeniana Olney
Carex hoodii Boott
Carex interior Bailey
Carex lasiocarpa Ehrh.
Carex leptalea Wahl.
Carex limosa L.
Carex livida (Wahl.) Willd.
Carex macloviana D'Urv.
 † *Carex microglochin* Wahl.
Carex nardina Fries
Carex nigricans Meyer
Carex norvegica Retz.
Carex pachystachya Cham.
Carex paupercula Michx.
Carex petasata Dewey
Carex phaeocephala Piper
Carex physocarpa Presl. = *C. saxatilis* L.
Carex platylepis Mack.
Carex praticola Rydb.
Carex pyrenaica Wahl.
Carex raymondii Calder
Carex rossii Boott
Carex rostrata Stokes
 † *Carex sartwellii* Dewey
Carex scirpoidea Michx.
Carex scoparia Schk.
Carex spectabilis Dewey
Carex vaginata Tausch.
Eleocharis acicularis (L.) Roem. & Schul.
Eleocharis palustris (L.) Roem. & Schul.
 † *Eleocharis quinqueflora* (Hartm.) Schwartz
Eriophorum angustifolium Honck. = *E. polystachion* L.
Eriophorum chamissonis Meyer
Eriophorum viridi-carinatum (Engelm.) Fern.
Kobresia myosuroides (Vill.) Fiori & Paol = *K. bellardii* (All.) Degl.
Kobresia simpliciuscula (Wahl.) Mack.
Scirpus acutus Muhl. ex Bigel.
Scirpus caespitosus L.
 † *Scirpus pumilis* Vahl
Scirpus validus Vahl

GRAMINEAE

Agropyron pectiniforme Roem. & Schul.
Agropyron repens (L.) Beauv.
Agropyron spicatum (Pursh) Scribn. & Sm.

Agropyron trachycaulum (Link) Malte var. *trachycaulum*
Agropyron violaceum (Hornem.) Lange
Agrostis exarata Trin.
Agrostis scabra Willd.
Agrostis stolonifera L.
Agrostis variabilis Rydb.
Bromus carinatus Hook. & Arn. = *B. marginatus* Nees
Bromus ciliatus L.
Bromus inermis Leyss. ssp. *inermis*
Bromus inermis Leyss. ssp. *pumpellianus* (Scribn.) Wagnon
Bromus tectorum L.
Bromus vulgaris (Hook.) Shear
Calamagrostis canadensis (Michx.) Beauv.
Calamagrostis inexpansa Gray
Calamagrostis montanensis Scribn.
Calamagrostis purpurascens R. Br.
Calamagrostis rubescens Buckl.
Cinna latifolia (Trev.) Griseb.
Danthonia spicata (L.) Beauv.
Deschampsia atropurpurea (Wahl.) Scheele = *Vahlodea atropurpurea* (Wahl.) Fries
Deschampsia caespitosa (L.) Beauv.
Elymus glaucus Buckl.
Elymus innovatus Beal
Festuca baffinensis Polunin
Festuca campestris Rydb.
Festuca occidentalis Hook.
Festuca ovina L. var. *brachyphylla* (Schultes) Piper
Festuca rubra L.
Festuca scabrella Torr. = *F. altaica* Trin.
Glyceria elata (Nash) Hitchc.
Glyceria pulchella (Nash) Schum.
Glyceria striata (Lam.) Hitchc.
Hierochloe odorata (L.) Beauv.
Hordeum jubatum L.
Koeleria cristata (L.) Pers. = *K. macrantha* (Ledeb.) Schul.
Melica smithii (Porter) Vasey
Muhlenbergia glomerata (Willd.) Trin.
Oryzopsis asperifolia Michx.
Oryzopsis hymenoides (Roem. & Schul.) Ricker
Oryzopsis micrantha (Trin. & Rupr.) Thurb.
Oryzopsis pungens (Torr.) Hitchc.
Phleum alpinum L. = *P. commutatum* Gaudin
Phleum pratense L.
Poa alpina L.
Poa annua L.
Poa arctica R. Br.
Poa canbyi (Scribn.) Piper
Poa compressa L.
Poa epilis Scribn.
Poa interior L.
Poa leptocoma Trin.
Poa nervosa (Hook.) Vasey
Poa palustris L.
Poa pratensis L.
Poa rupicola Nash = *P. glauca* Vahl
Poa sandbergii Vasey
Poa stenantha Trin.
Schizachne purpurascens (Torr.) Swallen
Stipa columbiana Macoun
Stipa comata Trin. & Rupr.
Stipa richardsonii Link
Trisetum spicatum (L.) Richt.

IRIDACEAE

Sisyrinchium montanum Greene
Sisyrinchium sarmentosum Suksd. = *S. septentrionale* Bicknell

JUNCACEAE

Juncus alpinus Vill. = *J. alpinoarticulatus* Chaix
Juncus balticus Willd.
Juncus drummondii Meyer
Juncus dudleyi Wieg. = *J. tenuis* Willd. var. *dudleyi* (Wieg.) Herm.
Juncus hallii Engelm.
Juncus nodosus L.
Juncus parryi Engelm.
Juncus saximontanus Nels. = *J. ensifolius* Wikstr.
* *Juncus triglumis* L. = *J. albescens* (Lange) Fern.
Luzula hitchcockii L. Hamet-Ahti = *L. glabrata* (Hoppe) Desv.
Luzula piperi (Cov.) Jones = *L. wahlenbergii* Rupr.
Luzula parviflora (Ehrh.) Desv.
Luzula spicata (L.) DC.

JUNCAGINACEAE

Triglochin maritima L.
Triglochin palustris L.

LILIACEAE

Allium cernuum Roth
Allium schoenoprasum L. var. *sibiricum* (L.) Hartm.
Calochortus macrocarpus Dougl.
Clintonia uniflora (Schult.) Kunth
Disporum trachycarpum (Wats.) Benth. & Hook.
Erythronium grandiflorum Pursh
* *Lilium philadelphicum* L. var. *andinum* (Nutt.) Ker.
Smilacina racemosa (L.) Desf. var. *amplexicaulis* (Nutt.) Wats.
Smilacina stellata (L.) Desf.
Stenanthium occidentale Gray
Streptopus amplexifolius (L.) DC. var. *amplexifolius*
Streptopus roseus Michx. var. *curvipes* (Vail) Fassett
Tofieldia glutinosa (Michx.) Pers.
Tofieldia pusilla (Michx.) Pers.
Veratrum eschscholtzii Gray = *V. viride* Ait.
Zygadenus elegans Pursh
Zygadenus gramineus Rydb. = *Z. venenosus* Wats. var. *gramineus* (Rydb.) Walsh

ORCHIDACEAE

Calypso bulbosa (L.) Oakes
Corallorhiza maculata Raf.
Corallorhiza striata Lindl.
Corallorhiza trifida Chat.
* *Cypripedium montanum* Dougl.
* *Cypripedium passerinum* Richards.

Goodyera oblongifolia Raf.
Goodyera repens (L.) R. Br.
Habenaria dilatata (Pursh) Hook.
Habenaria hyperborea (L.) R. Br.
Habenaria obtusata (Pursh) Richards.
Habenaria orbiculata (Pursh) Torr.
Habenaria saccata Greene
 † *Habenaria unalascensis* (Spreng.) Wats. ^{VAR. *bracteata* ?}
Habenaria viridis (L.) R. Br. var. *bracteata* (Muhl.) Gray
Listera borealis Morong
Listera cordata (L.) R. Br.
Orchis rotundifolia Banks
Spiranthes romanoffiana Cham. & Schlect.

POTAMOGETONACEAE

Potamogeton alpinus Balbis
Potamogeton berchtoldii Fieber = *P. pusillus* L.
Potamogeton gramineus L.
Potamogeton praelongus Wulf.

SPARGANIACEAE

Sparganium minimum (Hartm.) Fries

TYPHACEAE

Typha latifolia L.

LIVERWORTS

Anastrophyllum helleranum (Nees) Schust.
Barbilophozia hatcheri (Evans) Loeske
Barbilophozia lycopodioides (Wallr.) Loeske
Blepharostoma tricophyllum (L.) Dum.
Calypogeja muelleriana (Schiffn.) K. Muell.
Cephalozia biarspidata (L.) Dum.
Clevea hyalina (Somm.) Lindb. = *Athalamia hyalina* (Somm.) Hatt.
Geocalyx graveolens (Schrad.) Nees
Gymnomitrium concinatum (Lightf.) Corda
Lepidozia reptans (L.) Dum.
Lophozia excisa (Dicks.) Dum.
Lophozia floerkii (Web. & Mohr) Schiffn.
Lophozia incisa (Schrad.) Dum.
Lophozia kunzeana (Hueb.) Evans
Lophozia longidens (Lindb.) Macoun
Lophozia obtusata (Lindb.) Evans
Lophozia porphyroleuca (Nees) Schiffn.
Lophozia ventricosa (Dicks.) Dum.
Lophozia wenzelii (Nees) Steph.
Marchantia polymorpha L.
Plagiochila asplenioides (L.) Dum.
Preissia quadrata (Scop.) Nees
Ptilidium californicum (Aust.) Underw.
Ptilidium pulcherrimum (G. Web.) Hampe

Scapania undulata (L.) Dum.
Tritomaria exsectiformis (Breidl.) Loeske
Tritomaria polita (Nees) Joerg.

MOSSES

Amblystegium serpens (Hedw.) B.S.G.
Atrichum selwynii Aust.
Aulacomnium androgynum (Hedw.) Schwaegr.
Aulacomnium palustre (Hedw.) Schwaegr.
Barbula acuta (Brid.) Brid.
Barbula convoluta Hedw.
Brachythecium albicans (Hedw.) B.S.G.
Brachythecium collinum (Schleich. ex C. Muell.) B.S.G.
Brachythecium curtum (Lindb.) Limpr.
Brachythecium groenlandicum (C. Jens.) Schljak.
Brachythecium hylotapetum B. Hig. & N. Hig.
Brachythecium leibergii Grout
Brachythecium populeum (Hedw.) B.S.G.
Brachythecium salebrosus (Web. & Mohr) B.S.G.
Brachythecium starkei (Brid.) B.S.G. = *B. curtum* (Lindb.) Limpr.
Brachythecium turgidum (C.J. Hartm.) Kindb.
Brachythecium velutinum (Hedw.) B.S.G.
Bryoerythrophyllum recurvirostrum (Hedw.) Chen
Bryum caespiticium Hedw.
Bryum cuspidatum (B.S.G.) Schimp. = *B. creberrimum* Tayl.
Bryum pallescens Schleich. ex Schwaegr.
Bryum pseudotriquetrum (Hedw.) Gaertn., Meyer & Schreb.
Bryum stirtonii Schimp.
Calliergon cordifolium B.S.G.
Calliergon giganteum (Schimp.) Kindb.
Calliergon trifarium (Web. & Mohr) Kindb.
Campylium chrysophyllum (Brid.) J. Lange
Campylium halleri (Hedw.) Lindb.
Campylium hispidulum (Brid.) Mitt.
Campylium stellatum (Hedw.) C. Jens.
Catoclopium nigratum (Hedw.) Brid.
Ceratodon purpureus (Hedw.) Brid.
Cratoneuron commutatum (Hedw.) Roth
Desmatodon latifolius (Hedw.) Brid.
Dicranoweisia crispula (Hedw.) Lindb. ex Milde
Dicranum acutifolium (Lindb. & Arnell) C. Jens ex Weinm.
Dicranum brevifolium Kindb.
Dicranum flagellare Hedw.
Dicranum fragilifolium Lindb.
Dicranum fuscescens Turn.
Dicranum muehlenbeckii B.S.G.
Dicranum pallidisetum (Bail. ex Holz.) Lindb.
Dicranum polysetum Sw.
Dicranum scoparium Hedw.
Dicranum spadiceum Zett.
Dicranum tauricum Sapeh.
Dicranum undulatum Brid.
Distichium capillaceum (Hedw.) B.S.G.
Ditrichum flexicaule (Schwaegr.) Hampe
Drepanocladus exannulatus (B.S.G.) Warnst.
Drepanocladus revolvens (Sw.) Warnst.
Drepanocladus uncinatus (Hedw.) Warnst.
Drepanocladus sendtneri (Schimp.) Warnst.
Drepanocladus uncinatus (Hedw.) Warnst.
Drepanocladus vernicosus (Lindb. ex C. Hartm.) Warnst.

Encalypta affinis R. Hedw.
Encalypta procera Bruch
Encalypta rhyptocarpa Schwaegr.
Eurhynchium pulchellum (Hedw.) Jenn.
Grimmia apocarpa Hedw.
Homalothecium aeneum (Mitt.) Lawt.
Hylocomium pyrenaicum (Spruce) Lindb.
Hylocomium splendens (Hedw.) B.S.G.
Hypnum bambergeri Schimp.
Hypnum circinale Hook.
Hypnum cupressiforme Hedw.
Hypnum lindbergii Mitt.
Hypnum revolutum (Mitt.) Lindb.
Hypnum vaucheri Lesq.
Isopterygium pulchellum (Hedw.) Jaeg. & Sauerb.
Leptobryum pyriforme (Hedw.) Wils.
Lescuraea incurvata (Hedw.) Lawt.
Lescuraea radicata (Mitt.) Moenk.
Mnium arizonicum Amann
Mnium blyttii B.S.G.
Mnium lycopodioides Schwaegr.
Mnium nudum Williams ex Britt. & Williams
Mnium spinulosum B.S.G.
Mnium thompsonii Schimp.
Orthothecium chryseum (Schwaegr. ex Schultes) B.S.G.
Orthotrichum obtusifolium Brid.
Orthotrichum pallens Bruch. ex Brid.
Pellia endiviiifolia (Dicks.) Dum.
Philonotis fontana (Hedw.) Brid.
Plagiothecium denticulatum (Hedw.) B.S.G.
Plagiomnium ellipticum (Brid.) Koponen
Plagiomnium medium B.S.G.
Plagiothecium denticulatum (Hedw.) B.S.G.
Plagiothecium laetum B.S.G.
Platydictya jungermannioides (Brid.) Crum
Pleurozium schreberi (Brid.) Mitt.
Pogonatum alpinum (Hedw.) Roehl.
Pohlia cruda (Hedw.) Lindb.
Pohlia elongata Hedw.
Pohlia nutans (Hedw.) Lindb.
Pohlia prolifera (Kindb. ex Limpr.) Lindb. ex Arnell
Pohlia wahlenbergii (Web. & Mohr) Andr.
Polytrichadelphus lyallii Mitt.
Polytrichum commune Hedw.
Polytrichum formosum Hedw.
Polytrichum juniperinum Hedw.
Polytrichum piliiferum Hedw.
Polytrichum strictum Brid.
Pseudoleskea radicata (Mitt.) Macoun & Kindb. var. *compacta* Best
Ptilium crista-castrensis (Hedw.) DeNot.
Pylaisiella polyantha (Hedw.) Grout
Rhacomitrium canescens (Hedw.) Brid.
Rhacomitrium heterostichum (Hedw.) Brid. var. *heterostichum*
Rhizomnium magnifolium (Horik.) Koponen
Rhizomnium nudum (Williams) Koponen
Rhizomnium pseudopunctatum (Bruch & Schimp.) Koponen
Rhytidiadelphus robusta (Hedw.) Broth.
Rhytidiadelphus triquetrus (Hedw.) Warnst.
Rhytidium rugosum (Hedw.) Kindb.
Roellia roellii (Broth. ex Roell) Andr. ex Crum
Scorpidium scorpioides (Hedw.) Limpr.
Scorpidium turgescens (T. Jens.) Loeske
Seligeria campylopoda Kindb.

Sphagnum fuscum (Schimp.) Klinggr.
Sphagnum nemoreum Scop.
Sphagnum subsecundum Nees ex Sturm.
Sphagnum warnstorffii Russ.
Tetraphis pellucida Hedw.
Thuidium abietinum (Hedw.) B.S.G.
Thuidium recognitum (Hedw.) Lindb.
Timmia austriaca Hedw.
Timmia megapolitana Hedw.
Tomenthypnum nitens (Hedw.) Loeske
Tortella fragilis (Drumm.) Limpr.
Tortella inclinata (R. Hedw.) Limpr.
Tortella tortuosa (Hedw.) Limpr.
Tortula norvegica (Web.) Wahlenb. ex Lindb.
Tortula ruralis (Hedw.) Gaertn., Meyer & Schreb.

LICHENS

Acarospora chlorophana (Wahlenb. ex Ach.) Mass.
Acarospora heppii (Naeg.) Naeg.
Alectoria sarmentosa (Ach.) Ach.
Aspicilia albopruinosa Loom.
Aspicilia caesiocinerea (Nyl. ex Malbr.) Arn.
Bacidia obscurata (Somm.) Zahlbr.
Baeomyces rufus (Huds.) Rebert.
Bryoria abbreviata (Muell. Arg.) Brodo & D. Hawksw.
Bryoria capillaris (Ach.) Brodo & D. Hawksw.
Bryoria fremontii (Tuck.) Brodo & D. Hawksw.
Bryoria fuscescens (Gyeln.) Brodo & D. Hawksw.
Bryoria glabra (Mot.) Brodo & D. Hawksw.
Bryoria lanestris (Ach.) Brodo & D. Hawksw.
Bryoria oregana (Tuck.) Brodo & D. Hawksw.
Bryoria pseudofuscescens (Gyeln) Brodo & D. Hawksw.
Buellia triphragmioides Anzi
Calicium salicinum Pers.
Calicium viride Pers.
Caloplaca holocarpa (Hoffm.) Wade
Caloplaca jungermanniae (Vahl) Th. Fr.
Caloplaca saxicola (Hoffm.) Nordin
Caloplaca sinapisperma (Lam.) Mah. & Gill.
Candelaria concolor (Dicks.) B. Stein
Cetraria canadensis (Raes.) Raes.
Cetraria chlorophylla (Willd.) Vain.
Cetraria cucullata (Bell.) Ach.
Cetraria ericetorum Opiz
Cetraria islandica (L.) Ach.
Cetraria merrillii DuRietz
Cetraria nivalis (L.) Ach.
Cetraria pinastri (Scop.) S.Gray
Cetraria platyphylla Tuck.
Cetraria subalpina Imsh.
Cetraria tilesii Ach.
Cladonia arbuscula (Wallr.)
Cladonia bacillaris (Ach.) Nyl.
Cladonia botrytes (Hag.) Willd.
Cladonia cariosa (Ach.) Spreng.
Cladonia carneola (Fr.) Fr.
Cladonia cenotea (Ach.) Schaer.
Cladonia cervicornis (Ach.) Flot. ssp. *verticillata* (Hoffm.) Ahti
Cladonia chlorophaea (Floerke ex Somm.) Spreng.
Cladonia coccifera (L.) Willd.

Cladonia coniocraea (Floerke) Spreng
Cladonia cornuta (L.) Hoffm.
Cladonia crispata (Ach.) Flot.
Cladonia deformis (L.) Hoffm.
Cladonia ecmocyna (Ach.) Nyl.
Cladonia fimbriata (L.) Fr.
Cladonia furcata (Huds.) Schrad.
Cladonia gracilis (L.) Willd.
Cladonia mitis Sandst.
Cladonia multiformis Merr.
Cladonia phyllophora Ehrh. ex Hoffm.
Cladonia pleurota (Floerke) Schaer.
Cladonia pocillum (Ach.) O. Rich.
Cladonia polydactyla (Floerke) Spreng.
Cladonia pyxidata (L.) Hoffm.
Cladonia robbinsii Evans
Cladonia subulata (L.) Wigg.
Cladonia sulphurina (Michx.) Fr.
Coelocaulon aculeatum (Schreb.) Link
Coniocybe furfuracea (L.) Ach.
Dactylina ramulosa (Hook.) Tuck.
Dermatocarpon weberi (Ach.) Mann.
Diploschistes scruposus (Schreb.) Norm.
Evernia divaricata (L.) Ach.
Hypocenomyce scalaris (Ach.) Choisy
Hypogymnia austerodes (Nyl.) Raes.
Hypogymnia enteromorpha (Ach.) Nyl.
Hypogymnia imshaugii Krog
Hypogymnia physodes (L.) Nyl.
Hypogymnia tubulosa (Schaer.) Hav.
Icmadophila ericetorum (L.) Zahlbr.
Lecanora coilocarpa (Ach.) Nyl.
Lecanora epibyron (Ach.) Ach.
Lecanora melanophthalma (Ram.) Ram.
Lecanora polytropa (Hoffm.) Rabenh.
Lecanora rupicola (L.) Zahlbr.
Lecidea berengeriana (Mass.) Nyl.
Lecidea cinnabarina Somm.
Lecidea fuscescens Somm.
Lecidea granulosa (Hoffm.) Ach.
Lecidea lapicida (Ach.) Ach.
Lecidea nigrocruenta Anzi
Lecidea tornoensis Nyl.
Lepraria incana (L.) Ach.
Lepraria membranacea (Dicks.) Vain.
Lepraria neglecta (Nyl.) Lett.
Leptogium burnetiae var. *hirsutum* (Sierk) P.M. Jorg.
Letharia columbiana (Nutt.) Thoms.
Letharia vulpina (L.) Hue
Lobaria pulmonaria (L.) Hoffm.
Mycoblastus affinis (Schaer.) Schauer
Mycoblastus sanguinarius (L.) Norman
Nephroma arcticum (L.) Torss.
Nephroma bellum (Spreng.) Tuck.
Nephroma expallidum (Nyl.) Nyl.
Nephroma helveticum Ach.
Nephroma parile (Ach.) Ach.
Nephroma resupinatum (L.) Ach.
Ochrolechia inaequatula (Nyl.) Zahlbr.
Pachyospora verrucosa (Ach.) Mass
Pannaria pezizoides (G. Web.) Trev.
Parmelia exasperatula Nyl.
Parmelia sphaerosporella Muell. Arg.

Parmelia subolivacea Nyl.
Parmelia sulcata Tayl.
Parmeliopsis aeurites (Ach.) Nyl.
Parmeliopsis ambigua (Wulf.) Nyl.
Parmeliopsis hyperopta (Ach.) Arn.
Peltigera aphthosa (L.) Willd.
Peltigera canina (L.) Willd.
Peltigera elizabethae Gyeln.
Peltigera horizontalis (Huds.) Baumg.
Peltigera malacea (Ach.) Funck
Peltigera polydactyla (Neck.) Hoffm.
Peltigera rufescens (Weis.) Humb
Peltigera spuria (Ach.) DC.
Peltigera venosa (L.) Hoffm.
Pertusaria ophthalmiza (Nyl.) Nyl.
Physcia aipolia (Ehrh. ex Humb.) Fuernrohr
Platismatia glauca (L.) W. Culb. & C. Culb.
Psora decipiens (Hedw.) Hoffm.
Psora rubiformis (Ach.) Hook.
Psoroma hypnorum (Vahl) S. Gray
Ramalina pollinaria (Westr.) Ach.
Rhizocarpon geographicum (L.) DC.
Rhizocarpon macrosporum Raes.
Rhizocarpon riparium Raes.
Rinodina roscida (Somm.) Arn.
Rinodina turfacea (Wahl.) Koerb.
Solorina bispora Nyl.
Solorina crocea (L.) Ach.
Solorina octospora Arn.
Solorina saccata (L.) Ach.
Solorina spongiosa (Sm.) Anzi
Sphaerophorus globosus (Huds.) Vain.
Stereocaulon alpinum Laur.
Stereocaulon tomentosum Fr.
Thamnia subuliformis (Ehrh.) W. Culb.
Tonia caeruleonigricans (Lightf.) Th. Fr.
Umbilicaria deusta (L.) Baumg.
Umbilicaria hyperborea (Ach.) Hoffm.
Umbilicaria krascheninnikovii (Sav.) Schol.
Umbilicaria virginis Schaer.
Usnea alpina Mot.
Usnea cavernosa Tuck.
Usnea glabrescens (Nyl. ex Vain.) Vain.
Usnea scabrata Nyl.
Usnea solediiifera (Arn.) Lynge = *U. fulvorenans* (Raes.) Raes.
Usnea subfloridana Stirt.
Verrucaria muralis Ach.
Verrucaria virens Nyl.
Xanthoria elegans (Link) Th. Fr.
Xanthoria fallax (Hepp) Arn.

APPENDIX B - ANIMALS OF KOOTENAY NATIONAL PARK

INTRODUCTION

Nomenclature for this checklist is based on Stebbins (1966), American Ornithologists' Union (1982), and Banfield (1974). Records are based on observations made by the wildlife crew during the ecological land classification and information in the Warden Service and Interpretive Service files at KNP. Further details are in Poll *et al.* (1984). Names in brackets are hypothetical species for which there is no verified record for the park. KNP has a total of 4 amphibian species, 2 reptile species (plus one hypothetical), 182 bird species (plus 9 hypothetical), and 58 mammal species.

AMPHIBIANS

Long-toed salamander *Ambystoma macrodactylum*
Western toad *Bufo boreas*
Wood frog *Rana sylvatica*
Spotted frog *Rana pretiosa*

REPTILES

Rubber boa *Charina bottae*
[Common (red-sided) garter snake *Thamnophis sirtalis parietalis*]
Western terrestrial (wandering) garter snake *Thamnophis elegans vagrans*

BIRDS

Common Loon *Gavia immer* (Brünnich)
Pied-billed Grebe *Podilymbus podiceps* (Linnaeus)
Horned Grebe *Podiceps auritus* (Linnaeus)
Red-necked Grebe *Podiceps grisegena* (Boddaert)
Eared Grebe *Podiceps nigricollis* Brehm
Western Grebe *Aechmophorus occidentalis* (Lawrence)
Great Blue Heron *Ardea herodias* Linnaeus
Tundra Swan *Cygnus columbianus* (Ord)
[Trumpeter Swan *Cygnus buccinator* (Richardson)]
Snow Goose *Chen caerulescens* (Linnaeus)
Canada Goose *Branta canadensis* (Linnaeus)
Green-winged Teal *Anas crecca* Linnaeus
Mallard *Anas platyrhynchos* Linnaeus
Northern Pintail *Anas acuta* Linnaeus
Blue-winged Teal *Anas discors* Linnaeus
Cinnamon Teal *Anas cyanoptera* Vieillot
Northern Shoveler *Anas clypeata* Linnaeus
American Wigeon *Anas americana* Gmelin
Redhead *Aythya americana* (Eyton)
Ring-necked Duck *Aythya collaris* (Donovan)
Lesser Scaup *Aythya affinis* (Eyton)
Harlequin Duck *Histrionicus histrionicus* (Linnaeus)
Surf Scoter *Melanitta perspicillata* (Linnaeus)
White-winged Scoter *Melanitta fusca* (Linnaeus)
Common Goldeneye *Bucephala clangula* (Linnaeus)
Barrow's Goldeneye *Bucephala islandica* (Gmelin)

Bufflehead *Bucephala albeola* (Linnaeus)
 Hooded Merganser *Lophodytes cucullatus* (Linnaeus)
 Common Merganser *Mergus merganser* Linnaeus
 Red-breasted Merganser *Mergus serrator* Linnaeus
 Ruddy Duck *Oxyura jamaicensis* (Gmelin)
 Osprey *Pandion haliaetus* (Linnaeus)
 Bald Eagle *Haliaeetus leucocephalus* (Linnaeus)
 Northern Harrier *Circus cyaneus* (Linnaeus)
 Sharp-shinned Hawk *Accipiter striatus* Vieillot
 Cooper's Hawk *Accipiter cooperii* (Bonaparte)
 Northern Goshawk *Accipiter gentilis* (Linnaeus)
 Swainson's Hawk *Buteo swainsoni* Bonaparte
 Red-tailed Hawk *Buteo jamaicensis* (Gmelin)
 Rough-legged Hawk *Buteo lagopus* (Pontoppidan)
 Golden Eagle *Aquila chrysaetos* (Linnaeus)
 American Kestrel *Falco sparverius* Linnaeus
 Merlin *Falco columbarius* Linnaeus
 [Prairie Falcon *Falco mexicanus* Schlegel]
 Spruce Grouse *Dendragapus canadensis* (Linnaeus)
 Blue Grouse *Dendragapus obscurus* (Say)
 White-tailed Ptarmigan *Lagopus leucurus* (Richardson)
 Ruffed Grouse *Bonasa umbellus* (Linnaeus)
 Sora *Porzana carolina* (Linnaeus)
 American Coot *Fulica americana* Gmelin
 [Sandhill Crane *Grus canadensis* (Linnaeus)]
 Killdeer *Charadrius vociferus* Linnaeus
 [Greater Yellowlegs *Tringa melanoleuca* (Gmelin)]
 Lesser Yellowlegs *Tringa flavipes* (Gmelin)
 Solitary Sandpiper *Tringa solitaria* Wilson
 Spotted Sandpiper *Actitis macularia* (Linnaeus)
 Least Sandpiper *Calidris minutilla* (Vieillot)
 Baird's Sandpiper *Calidris bairdii* (Coues)
 [Short-billed Dowitcher *Limnodromus griseus* (Gmelin)]
 Common Snipe *Gallinago gallinago* (Linnaeus)
 Wilson's Phalarope *Phalaropus tricolor* (Vieillot)
 Red-necked Phalarope *Phalaropus lobatus* (Linnaeus)
 Long-tailed Jaeger *Stercorarius longicaudus* Vieillot
 Bonaparte's Gull *Larus philadelphia* (Ord)
 Mew Gull *Larus canus* Linnaeus
 Ring-billed Gull *Larus delawarensis* Ord
 California Gull *Larus californicus* Lawrence
 Rock Dove *Columba livia* Gmelin
 Mourning Dove *Zenaida macroura* (Linnaeus)
 [Flammulated Owl *Otus flammeolus* (Kaup)]
 Western Screech-Owl *Otus kennicottii* (Elliot)
 Great Horned Owl *Bubo virginianus* (Gmelin)
 Northern Hawk-Owl *Surnia ulula* (Linnaeus)
 Northern Pygmy-Owl *Glaucidium gnoma* Wagler
 Barred Owl *Strix varia* Barton
 Great Gray Owl *Strix nebulosa* Forster
 Short-eared Owl *Asio flammeus* (Pontoppidan)
 Boreal Owl *Aegolius funereus* (Linnaeus)
 Northern Saw-whet Owl *Aegolius acadicus* (Gmelin)
 Common Nighthawk *Chordeiles minor* (Forster)
 Black Swift *Cypseloides niger* (Gmelin)
 Vaux's Swift *Chaetura vauxi* (Townsend)
 [Black-chinned Hummingbird *Archilochus alexandri* (Bourcier & Mulsant)]
 Calliope Hummingbird *Stellula calliope* (Gould)
 Rufous Hummingbird *Selasphorus rufus* (Gmelin)
 Belted Kingfisher *Ceryle alcyon* (Linnaeus)
 Yellow-bellied Sapsucker *Sphyrapicus varius* (Linnaeus)
 Downy Woodpecker *Picoides pubescens* (Linnaeus)
 Hairy Woodpecker *Picoides villosus* (Linnaeus)

Three-toed Woodpecker *Picoides tridactylus* (Linnaeus)
 Black-backed Woodpecker *Picoides arcticus* (Swainson)
 Northern Flicker *Colaptes auratus* (Linnaeus)
 Pileated Woodpecker *Dryocopus pileatus* (Linnaeus)
 Olive-sided Flycatcher *Contopus borealis* (Swainson)
 Western Wood Pewee *Contopus sordidulus* Sclater
 Alder Flycatcher *Empidonax alnorum* Brewster
 Willow Flycatcher *Empidonax traillii* (Audubon)
 Least Flycatcher *Empidonax minimus* (Baird & Baird)
 Hammond's Flycatcher *Empidonax hammondi* (Xantus de Vesey)
 Dusky Flycatcher *Empidonax oberholseri* Phillips
 Western Flycatcher *Empidonax difficilis* Baird
 Western Kingbird *Tyrannus verticalis* Say
 Eastern Kingbird *Tyrannus tyrannus* (Linnaeus)
 Horned Lark *Eremophila alpestris* (Linnaeus)
 Tree Swallow *Tachycineta bicolor* (Vieillot)
 Violet-green Swallow *Tachycineta thalassina* (Swainson)
 Northern Rough-winged Swallow *Stelgidopteryx serripennis* (Audubon)
 Bank Swallow *Riparia reparia* (Linnaeus)
 Cliff Swallow *Hirundo pyrrhonota* Vieillot
 Barn Swallow *Hirundo rustica* Linnaeus
 Gray Jay *Perisoreus canadensis* (Linnaeus)
 Steller's Jay *Cyanocitta stelleri* (Gmelin)
 Clark's Nutcracker *Nucifraga columbiana* (Wilson)
 Black-billed Magpie *Pica pica* (Linnaeus)
 American Crow *Corvus brachyrhynchos* Brehm
 Common Raven *Corvus corax* Linnaeus
 Black-capped Chickadee *Parus atricapillus* Linnaeus
 Mountain Chickadee *Parus gambeli* Ridgway
 Boreal Chickadee *Parus hudsonicus* Forster
 Red-breasted Nuthatch *Sitta canadensis* Linnaeus
 White-breasted Nuthatch *Sitta carolinensis* Latham
 Brown Creeper *Certhia americana* Bonaparte
 Rock Wren *Salpinctes obsoletus* (Say)
 Winter Wren *Troglodytes troglodytes* (Linnaeus)
 American Dipper *Cinclus mexicanus* Swainson
 Golden-crowned Kinglet *Regulus satrapa* Lichtenstein
 Ruby-crowned Kinglet *Regulus calendula* (Linnaeus)
 Mountain Bluebird *Sialia currucoides* (Bechstein)
 Townsend's Solitaire *Myadestes townsendi* (Audubon)
 [Veery *Catharus fuscescens* (Stephens)]
 Swainson's Thrush *Catharus ustulatus* (Nuttall)
 Hermit Thrush *Catharus guttatus* (Pallas)
 American Robin *Turdus migratorius* Linnaeus
 Varied Thrush *Ixoreus naevius* (Gmelin)
 Water Pipit *Anthus spinoletta* (Linnaeus)
 Bohemian Waxwing *Bombycilla garrulus* (Linnaeus)
 Cedar Waxwing *Bombycilla cedrorum* Vieillot
 Northern Shrike *Lanius excubitor* Linnaeus
 [Loggerhead Shrike *Lanius ludovicianus* Linnaeus]
 European Starling *Sturnus vulgaris* Linnaeus
 Solitary Vireo *Vireo solitarius* (Wilson)
 Warbling Vireo *Vireo gilvus* (Vieillot)
 Red-eyed Vireo *Vireo olivaceus* (Linnaeus)
 Tennessee Warbler *Vermivora peregrina* (Wilson)
 Orange-crowned Warbler *Vermivora celata* (Say)
 Yellow Warbler *Dendroica petechia* (Linnaeus)
 Magnolia Warbler *Dendroica magnolia* (Wilson)
 Cape May Warbler *Dendroica tigrina* (Gmelin)
 Yellow-rumped Warbler *Dendroica coronata* (Linnaeus)
 Townsend's Warbler *Dendroica townsendi* (Townsend)
 Blackpoll Warbler *Dendroica striata* (Forster)
 American Redstart *Setophaga ruticilla* (Linnaeus)

Northern Waterthrush *Seiurus noveboracensis* (Gmelin)
 MacGillivray's Warbler *Oporornis tolmiei* (Townsend)
 Common Yellowthroat *Geothlypis trichas* (Linnaeus)
 Wilson's Warbler *Wilsonia pusilla* (Wilson)
 Western Tanager *Piranga ludoviciana* (Wilson)
 Black-headed Grosbeak *Pheucticus melanocephalus* (Swainson)
 Lazuli Bunting *Passerina amoena* (Say)
 Chipping Sparrow *Spizella passerina* (Bechstein)
 Clay-colored Sparrow *Spizella pallida* (Swainson)
 Brewer's Sparrow *Spizella breweri* Cassin
 Vesper Sparrow *Pooecetes gramineus* (Gmelin)
 Lark Bunting *Calamospiza melanocorys* Stejneger
 Savannah Sparrow *Passerculus sandwichensis* (Gmelin)
 Le Conte's Sparrow *Ammodramus leconteii* (Audubon)
 Fox Sparrow *Passerella iliaca* (Merrem)
 Song Sparrow *Melospiza melodia* (Wilson)
 Lincoln's Sparrow *Melospiza lincolni* (Audubon)
 Golden-crowned Sparrow *Zonotrichia atricapilla* (Gmelin)
 White-crowned Sparrow *Zonotrichia albicollis* (Forster)
 Dark-eyed Junco *Junco hyemalis* (Linnaeus)
 Snow Bunting *Plectrophenax nivalis* (Linnaeus)
 Red-winged Blackbird *Agelaius phoeniceus* (Linnaeus)
 Western Meadowlark *Sturnella neglecta* Audubon
 Yellow-headed Blackbird *Xanthocephalus xanthocephalus* (Bonaparte)
 Rusty Blackbird *Euphagus carolinus* (Muller)
 Brewer's Blackbird *Euphagus cyanocephalus* (Wagler)
 Brown-headed Cowbird *Molothrus ater* (Boddaert)
 Rosy Finch *Leucosticte arctoa* (Pallas)
 Pine Grosbeak *Pinicola enucleator* (Linnaeus)
 Purple Finch *Carpodacus purpureus* (Gmelin)
 Cassin's Finch *Carpodacus casinii* Baird
 Red Crossbill *Loxia curvirostra* Linnaeus
 White-winged Crossbill *Loxia leucoptera* Gmelin
 Common Redpoll *Carduelis flammea* (Wilson)
 Pine Siskin *Carduelis pinus* (Wilson)
 American Goldfinch *Carduelis tristis* (Linnaeus)
 Evening Grosbeak *Coccothraustes vespertinus* (Cooper)
 House Sparrow *Passer domesticus* (Linnaeus)

MAMMALS

Masked shrew *Sorex cinereus* Kerr
 Dusky shrew *Sorex monticolus* (Merriam)
 Water shrew *Sorex palustris* Richardson
 Pygmy shrew *Sorex hoyi* (Baird)
 Little brown bat *Myotis lucifugus* (Le Conte)
 Northern long-eared bat *Myotis septentrionalis* Merriam
 Long-eared bat *Myotis evotis* (H. Allen)
 California bat *Myotis californicus* (Audubon & Bachman)
 Silver-haired bat *Lasionycteris noctivagans* (Le Conte)
 Big brown bat *Eptesicus fuscus* (Palisot de Beauvois)
 Hoary bat *Lasiurus cinereus* (Palisot de Beauvois)
 American pika *Ochotona princeps* (Richardson)
 Snowshoe hare *Lepus americanus* Erxleben
 Least chipmunk *Eutamias minimus* (Bachman)
 Yellow-pine chipmunk *Eutamias amoenus* (J.A. Allen)
 Woodchuck *Marmota monax* (Linnaeus)
 Hoary marmot *Marmota caligata* (Eschscholtz)
 Columbian ground squirrel *Spermophilus columbianus* (Ord)
 Golden-mantled ground squirrel *Spermophilus lateralis* (Say)

Red squirrel *Tamiasciurus hudsonicus* (Erxleben)
 Northern flying squirrel *Glaucomys sabrinus* (Shaw)
 Beaver *Castor canadensis* Kuhl
 Deer mouse *Peromyscus maniculatus* (Wagner)
 Bushy-tailed wood rat *Neotoma cinerea* (Ord)
 Gapper's red-backed vole *Clethrionomys gapperi* (Vigors)
 Northern bog lemming *Synaptomys borealis* (Richardson)
 Heather vole *Phenacomys intermedius* Merriam
 Muskrat *Ondatra zibethicus* (Linnaeus)
 Richardson's water vole *Arvicola richardsoni* DeKay
 Meadow vole *Microtus pennsylvanicus* (Ord)
 Long-tailed vole *Microtus longicaudus* (Merriam)
 Western jumping mouse *Zapus princeps* J.A. Allen
 Porcupine *Erethizon dorsatum* (Linnaeus)
 Coyote *Canis latrans* Say
 Wolf *Canis lupus* Linnaeus
 Red fox *Vulpes vulpes* (Linnaeus)
 Black bear *Ursus americanus* Pallas
 Grizzly bear *Ursus arctos* Linnaeus
 Marten *Martes americana* (Turton)
 Fisher *Martes pennanti* (Erxleben)
 Short-tailed weasel *Mustela erminea* Linnaeus
 [Long-tailed weasel *Mustela frenata* Lichtenstein]
 Mink *Mustela vison* Schreber
 Wolverine *Gulo gulo* (Linnaeus)
 Badger *Taxidea taxus* (Schreber)
 Striped skunk *Mephitis mephitis* (Schreber)
 River otter *Lontra canadensis* (Schreber)
 Cougar *Felis concolor* Linnaeus
 Canada lynx *Lynx lynx* (Linnaeus)
 Bobcat *Lynx rufus* (Schreber)
 Mule deer *Odocoileus hemionus* (Rafinesque)
 White-tailed deer *Odocoileus virginianus* (Zimmermann)
 Moose *Alces alces* (Linnaeus)
 Elk *Cervus elaphus* Linnaeus
 Mountain goat *Oreamnos americanus* (de Blainville)
 Bighorn sheep *Ovis canadensis* Shaw

