

**REVIEW OF PARK HERBARIA AND FILES
FOR KOOTENAY, YOHO, AND
MOUNT REVELSTOKE & GLACIER
NATIONAL PARKS**

Prep. for Ecosystem Management Group,
Alberta Regional Office,
Canadian Heritage Parks Canada,
Rm. 520, 220 - 4 Avenue S.E.,
Calgary, Alberta
T2P 3H8

by
J. Williams Consulting
#6, 2127 - 35 Avenue S.W.
Calgary, Alberta T2T 2E4

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1.0 INTRODUCTION

A review of park herbaria and files at Yoho, Kootenay and Mount Revelstoke-Glacier National Parks was undertaken, for use in the development of biodiversity information on tracked vascular plant species and plant communities for the B.C. mountain national parks (and surrounding ecosystems) according to the standards and procedures of The Nature Conservancy's Biological Conservation and Data system.

2.0 METHODOLOGY

Using the most currently available British Columbia Conservation Data Centre (CDC) provincial tracking lists of vascular plant species and plant communities, information was collated from national park files (electronic and hard copy), park herbaria, publications, and researcher collections.

Vascular specimens in each park's herbarium were assessed for rarity status, and time permitting, for correct identification. New records were input onto dBase files as per B.C. CDC specifications. Known misidentifications were immediately corrected on herbarium mounts, and in the files. Suspected misidentifications were removed from herbaria for later verification by expert taxonomists. Nomenclature was also updated for some specimens at the Family, Genus and/or Species level.

Park files, documents, bibliographies, and other vegetation-related literature were reviewed for records of tracked or new rare vascular plant species, and plant communities for the B.C. mountain national parks. Data pertaining to plant communities was compared to Heritage Canada's revised list of Vegetation Types (prepared by Geographic Dynamics Corp., Edmonton).

Confirmed rare plant data was formatted to concur with Element Occurrence Records and Source Abstract Records according to Biological Conservation and Data procedures. This should provide quality control of the project by ensuring that duplicate records are avoided, and that Element Occurrence specifications are used when determining valid occurrence records. Data was presented in disk copy format for integration into the B.C. CDC's computerized database.

A summary providing details of the work performed, problems encountered during the project, and a definition of additional work required on a park by park basis, is presented in the following sections. The review includes a series of recommendations, ranging from proper containment and care of specimens, to further searches for rare or extirpated species, plus the steps involved in the identification and verification process, which is dynamic and thus ongoing.

3.0 RESULTS

3.1 KOOTENAY NATIONAL PARK

Two plant herbaria are located in Kootenay National Park (KNP), administered by different sections, in different offices. The first collection is located in a metal herbarium cabinet at the Warden Office directly across from the Radium Hot Springs, and is hereafter referred to as the W.O. Herbarium. The contact person for the W.O. Herbarium is Byron Irons (Vegetation Specialist, Warden Service, KNP).

A second collection is located in a wooden herbarium cabinet in the Interpretation Services office at Nipika, approximately 5 km east of Radium. This collection is hereafter referred to as the Nipika Herbarium. The contact person for the Nipika Herbarium is Larry Halverson (Park Naturalist, KNP HQ).

All mounted specimens were examined in both park herbaria, in addition to review of related literature sources and park files (refer to Lit Cited). Discussion with L. Halverson revealed that at least one rare flora of B.C., the helleborine orchid *Epipactis gigantea*, was extirpated from the park by development in the vicinity of Radium Hot Springs (Park Memo Jan. 27/87). No mounted specimens of this orchid were found in either park herbaria.

With regard to rare plant communities, B. Irons commented that the occurrence of populations of brittle pear cactus *Opuntia fragilis*, and ponderosa pine *Pinus ponderosa* might be significant at the park level. The areal extent of both species in the park is very small; they occur on south-facing slopes. No further information was available on composition and structure of such sites, and no descriptions of any rare plant communities was found, other than that reported in the Ecological Land Classification (ELC) for Kootenay National Park (Achuff et al. 1984). *O. fragilis*, (as well as poison ivy *Rhus radicans*) were discovered in the 1980's as per Park Memo Oct. 28/86; it was not referred to in the ELC for KNP.

Review of the park's 1984 ELC showed that checklists of vascular plants, and of rare species known to occur in the park are out of date. For example, Achuff et al. reported the rare and potentially rare status *Artemisia cana*, *Delphinium bicolor*, *Epilobium glaberrimum*, *Muhlenbergia glomerata*, *Ranunculus pedatifidus*, *Senecio congestus*, *S. integrerrimus* var. *exaltatus*, and *Thermopsis rhombifolia* as occurring in the park, however no specimens were found in either park herbaria to support this. If specimens were collected, their current location, and whether or not

they were ever verified as to B.C. CDC rarity status should be researched. Alternately, there are also a few specimens in the park herbaria which are not referred to in the ELC.

Other records of rare vacular plants of KNP are also out of date, i.e., Park Memo Oct. 30/86. Of the 52 species of rare plants of B.C. included in this list, only 16-18 species now retain rare status. Thus the importance of obtaining most current tracking lists from the B.C. CDC annually or biennially.

Specimen records from the B.C. CDC (as of November 20, 1995) include seven records of rare status species for KNP. Starred (*) items are not included in the park ELC:

- Arnica louiseana* - collected 1976; housed at Provincial Museum (Victoria),
- * *Braya purpurascens* - collected 1967; housed at University of B.C. (Vancouver),
- * *Carex sychnocephala* - collected 1958; housed at Agriculture Canada (Ottawa),
- Pedicularis contorta* - (1)collected 1975; housed at University of B.C. (Vancouver);
(2) collected 1961; housed at Agriculture Canada (Ottawa),
- * *Primula stricta* - collected 1972; housed at B.C. Min. of Forests (Smithers), and
- * *Woodsia glabella* - collected 1951; housed at Canadian Museum of Nature (Ottawa).

Review of checklists of non-native plants (WP for Windows park database files) indicate that at least 24 new species not referred to in the ELC have been found in KNP.

According to staff notes (on computer disk file of herbarium contents), A.E. Porsild collected along the Great Divide during 1945, 1946, 1951, and 1956, but no records of his fieldwork were found. During National Museum-sponsored botany trips to national parks during 1959, Porsild collected and identified many plants in the alpine and subalpine region of the Sunshine Plateau and Simpson Pass, but no collection records were made available to KNP to substantiate the identifications.

Many other researchers were also issued collection permits in the 1950s-1960s; no information has been retained relating to these permits.

3.1.1 W.O. Herbarium (at Radium Hot Springs)

Current Status

- the W.O. herbarium, which was first established in 1961, contains one mounted specimen for each vascular plant species collected in KNP. Note that not all park species are represented in the collection.
- specimens are well-mounted and labelled; most indicate locational data, habitat, date, collector, and determiner.
- specimens are presently in good condition, and no evidence of damage or deterioration is visible.
- up-to-date taxonomic nomenclature is not always used; some labelling changes are required to incorporate new Family, Genus or Species names (e.g., Family Leguminosae = Fabaceae).
- folders are too long for the cabinet, so the cabinet door cannot be closed completely.
- a list of Genus and Species names for each mounted specimen in the herbarium has been put onto computer (WordPerfect for Windows) by park staff. Typographical errors and out-of-date nomenclature were noted.

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- where possible, corrections and updates were made to labels of mounted specimens in the cabinet. All herbarium mounts were reviewed, however time did not permit detailed examination of all specimens which were not potentially rare.
- update of an annotated list of herbarium contents on a computerized database (WordPerfect for Windows) was initiated by the author on site.
- a computerized checklist of herbarium contents was completed by the author as part of this report; it is presented as Appendix I. Additionally, a revised updated checklist of all vascular flora of the park is presented as Appendix II. Disk copies of these files will be made available to the park at a later date in a compatible format. Note that species names used in appendices have been taken directly from specimen labels, or from various reports. Since not all herbarium specimens have been verified for accuracy, these names may or may not be correct for some of the entries.

- label data from confirmed rare species was input onto dBase files for the B.C. CDC. This included one specimen each of *Townsendia hookeri*, and *Draba porsildii*.
- 27 unconfirmed, potentially rare species were removed from the herbarium for transfer to the B.C. CDC for verification; these will be returned to the park at a later date.
- a number of mounted specimens in the same genus as potential rares were also removed from the herbarium for further identification to species, subspecies and/or variety, followed by verification of potentially rare species.
- discussion with park personnel, and review of park files and associated literature was undertaken. Time did not permit examination of the study of the Vermilion Pass burn (Harris 1976) however. Reference was also made to a report by Munro and McTaggart-Cowan (1943) with information on park life zones and plant communities, and to a plant checklist by Brooks (ca. 1955); these reports were not located during the site visit. These, and any other documents not addressed in the Literature Cited section of this report, but known to park staff, will require further examination at a later date for records of potential rare plants.
- Hogg (1993) reported the rare status *Arenaria longipedunculata* (*A. humifusa*) from Marble Canyon, KNP, as well as three other potentially rare species *Draba lonchocarpa*, *Epilobium ciliatum*, and *Salix reticulata* ssp. *nivalis*, dependent on verification. He stated that specimens were "housed at the KNP herbarium at Radium Hot Springs", however *A. longipedunculata*, *E. ciliatum* and *S. reticulata* ssp. *nivalis* were not found in the W.O. herbarium collection during my site visit. One specimen of *D. lonchocarpa* was found, but it was collected by M. Fairbarns in 1982, so could not be the specimen referred to by Hogg. Hogg also reported several other new species for the park; these have been included in Appendix II.

3.1.2 Nipika Herbarium

Current Status

- the Nipika herbarium contains one to several mounted specimens for each vascular plant species collected in KNP. Note that not all park species are represented in the collection.
- most specimens are well-mounted and labelled; most indicate locational data, habitat, date, collector, and determiner.

- a few specimens have not been mounted, and are in newspaper. Collections by K. Van Tighem, for example, have not been incorporated into main folders containing the bulk of the collection.
- a few specimens have not been identified to date; others have questionable identifications.
- specimens are presently in good condition, and no evidence of damage or deterioration is visible. A few require re-gluing to mounting boards.
- up-to-date taxonomic nomenclature is not always used; some labelling changes are required to incorporate new Family, Genus or Species names (e.g., Family Leguminosae = Fabaceae).
- no computerized database was found of herbarium contents. An old typed list dated October 1963, and revised to October 1965 (Seel 1963) was found in the cabinet; typographical errors and out-of-date nomenclature were noted. A second list by Seel (1965) was found in park files.

Review

- where possible, corrections and updates were made to labels of mounted specimens in the cabinet. All herbarium mounts were reviewed, however time did not permit detailed examination of all specimens which were not potentially rare.
- a computerized checklist of herbarium contents was completed by the author as part of this report; it is presented as Appendix I. Additionally, a revised updated checklist of all vascular flora of the park is presented as Appendix II. Disk copies of these files will be made available to the park at a later date in a compatible format. Note that species names used in appendices have been taken directly from specimen labels, or from various reports. Since not all herbarium specimens have been verified for accuracy, these names may or may not be correct for some of the entries.
- label data from confirmed rare species was input onto dBase files for the B.C. CDC. This included three specimens of *Pedicularis contorta*.
- 17 unconfirmed, potentially rare species were removed from the herbarium for transfer to the B.C. CDC for verification; these will be returned to the park at a later date.
- a number of mounted specimens in the same genus as potential rares were also removed from the herbarium for further identification to species, subspecies and/or variety, followed by verification of potentially rare species.

- correspondence between L. Halverson and Dr. R.T. Ogilvie, Curator of Botany, B.C. Prov. Museum (Park Memo Jan. 27/87; Feb. 3/87) indicated that some herbarium specimens (Families Asteraceae, Ranunculaceae) were identified and/or corrected by Dr. Brayshaw.
- discussion with park personnel, and review of park files and associated literature was undertaken. Time did not permit examination of all peripheral reference material, thus any documents not addressed in the Literature Cited section of this report, but known to park staff, will require further examination at a later date for records of potentially rare plants.

3.2 MOUNT REVELSTOKE & GLACIER NATIONAL PARKS

There is one plant herbarium located in Mount Revelstoke and Glacier National Parks (MRGNP), administered by park staff, and located in a metal herbarium cabinet in the basement laboratory of park headquarters in downtown Revelstoke. The contact person for the Rev-Glacier Herbarium is Murray Peterson (Fire Vegetation Specialist, Warden Service, MRGNP HQ); other knowledgeable contacts include John Woods and Susan Hall (Ecosystem Management Specialist, MRGNP HQ). The park librarian also provided excellent advice and support on this project.

All mounted specimens were examined in the park's herbarium, in addition to review of related literature sources and park files (refer to Lit Cited). Review of the park ELC (Achuff et al. 1984) showed that checklists of vascular plants, and of rare species are out of date. Some species indicated on these lists are not supported by herbarium specimens; there are also a few herbarium specimens which are not included in the ELC.

No descriptions of rare plant communities were found, other than that reported in the MRGNP's 1984 ELC.

Specimen records from the B.C. CDC (as of November 20, 1995) included one record of rare status species for Glacier National Park: *Hypericum scouleri* ssp. *nortoniae* - collected 1972; housed at Canadian Museum of Nature (Ottawa). Of note, this species was not reported in the park's 1984 ELC.

Current Status

- the MRGNP herbarium contains one to several mounted specimens of each vascular plant species collected in MRGNP. Note that not all park species are represented in the collection.

- specimens are well-mounted and labelled; most indicate locational data, habitat, date, collector, and determiner.
- specimens are presently in good condition, and no evidence of damage or deterioration is visible. A few require re-gluing to mounting boards.
- a few specimens have not been mounted, and are in newsprint or newspaper. These collections have not been incorporated into main folders containing the bulk of the collection.
- a few specimens have not been identified to date; others have questionable identifications.
- up-to-date taxonomic nomenclature is not always used; some labelling changes are required to incorporate new Family, Genus or Species names (e.g., Family Leguminosae = Fabaceae).
- no computerized database was found of herbarium contents. An old computer printout dated August 1985 (Herbarium Master List) was found in the cabinet; incompleteness, typographical errors and out-of-date nomenclature were noted.

Review

- where possible, corrections and updates were made to labels of mounted specimens in the cabinet. All herbarium mounts were reviewed, however time did not permit detailed examination of all specimens which were not potentially rare.
- a computerized checklist of herbarium contents was completed by the author as part of this report; it is presented as Appendix III. Additionally, a revised updated checklist of all vascular flora of MRGNP is presented as Appendix IV. Disk copies of these files will be made available to the park at a later date in a compatible format. Note that species names used in appendices have been taken directly from specimen labels, or from various reports. Since not all herbarium specimens have been verified for accuracy, these names may or may not be correct for some of the entries.

Appendix III lists the number of mounted specimens found of each species, plus which park (i.e., Revelstoke, Glacier) it was collected in. Specimens without locational data, or with labels not indicating which of the two parks in which it was found, have been included in a third column. In a few cases, species names were taken from an old 1985 Master List of herbarium contents, though no specimens were found during my site visit. These have been highlighted with an (^);

efforts should be made to determine where mounted specimens are housed (e.g., *Carex praticola*, *Luzula piperi*, *Alnus ? incana*, *Pyrola picta*).

- the entire vascular plant collection in the cabinet was reorganized and relabelled, using standardized taxonomic groupings. Non-vascular plants were also sorted to major groupings (e.g., mosses, liverworts, lichens). Cabinet contents by group are now indicated appropriately inside the cabinet door to correspond to shelf contents.
- up-to-date taxonomic nomenclature is not always used on individual mounting sheets; some labelling changes are required to incorporate new Family, Genus or Species names (e.g., Family Leguminosae = Family Fabaceae).
- no specimens with confirmed rare status were found in the herbarium collection. One record of *Delphinium bicolor* was input onto dBase files for the B.C. CDC as the collection date and location in Glacier NP were known, based on a file record from the library (Park File 195), however no specimen was found.
- 22 unconfirmed, potentially rare species were removed from the herbarium for transfer to the B.C. CDC for verification; these will be returned to the park at a later date.
- a number of mounted specimens in the same genus as potential rares were also removed from the herbarium for further identification to species, subspecies and variety, (and possible verification of rare status).
- discussion with park personnel, and review of park files and associated literature was undertaken. Time did not permit examination of all peripheral reference material, thus any documents not addressed in the Literature Cited section of this report, but known to park staff, will require further examination at a later date for records of potentially rare plants.
- Cody (1976) recorded collecting specimens of *Dryopteris* sp. on July 14, 1976 from GNP (Collection #23119, 23124, 23125), and on July 12, 1976 from RNP (Collection #23089, 23103). *Woodsia* sp. was also collected July 12, 1976 from RNP (Collection #23114, 23115). Because these specimens were not identified to species level, it is unknown if they have rare status or not. They may be housed in the Biosystematics Research Inst., Canada Agriculture, Ottawa, Ontario (?).

- according to Park File 196, a complete set of collections of both J. H. Soper and Erich Haber are housed at the National Herbarium, Ottawa, Ontario.
- review of the herbarium also included examination of specimens in three black binders for use by park interpreters, etc. No specimens in the binders have rare status, however one species, *Salix reticulata* var. *nivalis* has not been verified, and may be a misidentified potentially rare status species. Because such a small portion of the plant was contained in the binder, as well as being sealed under plastic, it was not removed for further examination.
- plant checklists for Glacier NP (Van Leusden 1971; 1972) included some potentially rare status species, i.e., *Habenaria dilatata*, *Ranunculus eschscholtzii*, *Delphinium bicolor*, *Polygonum douglassii* var. *latifolium* and *Erigeron acris* (?), dependent on further verification. Specimens of *H. dilatata*, *R. eschscholtzii*, and *P. douglassii* have been sent to the B.C. CDC for verification, however specimens of *E. acris* and *D. bicolor* were not found.
- Dunn (1989) indicated that the rare *Botrychium simplex* was found in GNP (as does the ELC), however no herbarium specimens were found. A potentially rare species was also referred to in the text, *Dryopteris* ? *austriaca*, dependent on verification to species, but again no herbarium specimen was found.
- a number of other files were also reviewed (refer to Literature Cited). Checklists from some of these files are included in Appendix IV.

3.3 YOHO NATIONAL PARK

There is one plant herbarium located in Yoho National Park (YNP), administered by park staff. It is located in two metal cabinets in a padlocked, unheated, unlighted trailer/outbuilding approximately 0.5 km up a service road, across from the Operations Centre 3 km west of Field. The contact person is Carolyn Duchoslav (Vegetation Specialist, Warden Service, YNP); access to literature relating to park vegetation was assisted by Mark Woodward (Warden Service).

This is a comprehensive and massive collection relative to other park herbaria examined during this project, with potentially well over a thousand specimens. Due to the poor location of the park herbarium, i.e., an unheated trailer without lighting, and due to the extensive size of the herbarium, not all mounted specimens were examined. Rather only folders containing Families,

Genus and Species of potential rare status plants (based on CDC trackling lists) were examined. Specimens are not in good condition for storage; folders were found to be damp during the site visit.

Review of the ELC for the park (Achuff et al. 1993) indicated that checklists of vascular plants, and of rare species known to occur in the park are out of date. Some records in the ELC are not supported by herbarium specimens in the park, while conversely, some herbarium specimens are not included in the ELC.

Specimen records from the B.C. CDC (as of November 20, 1995) included three records of rare status species for Yoho National Park. Both these species have been recorded in the park's 1993 ELC:

Castilleja gracillima - collected 1958; housed at Agriculture Canada (Ottawa),

Gentianella crinita ssp. *macounii* - (1) collected 1958, (2) collected 1960; both housed at Agriculture Canada (Ottawa).

No descriptions of rare plant communities were found, other than that reported in the ELC for YNP (Achuff et al. 1993).

Current Status

- the YNP herbarium contains one to many mounted specimens for each vascular plant species collected in YNP. Note that not all park species are represented in the collection.
- specimens are generally well-mounted and labelled, though often in pencil only; most indicate some type of locational data, habitat notes, data, collector, and determiner.
- specimens are not always identified to species, and many contain questioned, tentative identifications only.
- specimens are presently in fair condition, and are damp. Damage and deterioration is occurring at a faster rate than normal, as the collection is affected by changing humidity and temperatures on a daily basis. Rodent dung is present throughout the building, and could destroy herbarium contents, should cabinet doors be left open accidentally.
- up-to-date taxonomic nomenclature is not always used; some labelling changes are required to incorporate new Family, Genus or Species names (e.g., Family Leguminosae = Fabaceae).

- no computerized database was found of herbarium contents.

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- time, freezing temperatures and a lack of light in the trailer did not permit detailed examination of all specimens in herbarium cabinets. All rare or potentially rare specimens were examined and removed from cabinets however.

File folders containing several rare plant species known to occur in the park (based on the ELC) were not found in herbarium cabinets. For example, the whereabouts of mounted specimens of *Botrychium simplex*, *Agoseris lackschewitzii*, *Arnica chamissonis*, *Hackelia diffusa*, *Minuartia biflora*, and *Vaccaria pyramidata* is unknown.

- as a result, it was not possible to prepare an up-to-date computerized database of herbarium contents for inclusion in this report.

• label data from confirmed rare species was input onto dBase files for the B.C. CDC. This included one specimen each of *Rumex paucifolius*, *Minuarta austromontana*, *Astragalus bourgovii*, and *Juncus albescens*, 2 specimens each of *Draba fladnizensis* and *Anemone canadensis*, and 3 specimens of *Carex crawei*.

• 53 unconfirmed, potentially rare species were removed from the herbarium for transfer to the B.C. CDC for verification; these will be returned to the park at a later date.

• numerous mounted specimens in the same genus as potential rares were also removed from the herbarium for further identification to species, subspecies and variety, (and possible verification of rare status).

• discussion with park personnel, and review of park files and associated literature was undertaken. Time did not permit examination of all peripheral reference material; as well, the primary contact person was absent from the park during my site visit. Thus any documents not addressed in the Literature Section of this report, but known to park staff, will require further examination at a later date for records of potentially rare plants.

• review of the vascular plant checklist in the ELC (Achuff et al. 1993) indicated that not all specimen records from the park herbarium were included in their Appendix A - Plants of Yoho National Park. For example, specimens of *Agoseris glauca* were found in the herbarium

collection, yet were not included in the ELC checklist. Additionally, a few typographical errors were found, e.g., two species in the Polypodiaceae are recorded twice (pp. 262-263).

- the ELC list of rare plant species (pp. 143-145) is also out-of-date, based on current tracking lists from the B.C. CDC, e.g., at least seven species on the ELC list no longer have rare status. Descriptions of sites where rare species have been found in the park do not always correspond with herbarium records either.
- review of the non-native plant checklist for the park (Achuff 1991?), from the Non-native Vegetation Management Plan indicated that none of these species have rare status.

4.0 RECOMMENDATIONS

Checklists and computerized database files of rare plant species, and herbarium contents for each herbarium within each B.C. mountain park should be established and updated as required. It is important to know the locations of significant plant species and/or communities within parks (and environs), for use in management and development planning.

Current tracking lists for vascular plants, plant communities (and vertebrate animals) used in this report were updated to April, 1995 (B.C. CDC 1995). These lists are constantly being revised as new information is received, thus it is advisable to obtain updated lists on an annual or biennial basis. Lists may be obtained from:

B.C. Conservation Data Centre,
Wildlife Branch,
Ministry of Environment, Lands and Parks,
780 Blanshard Street,
Victoria, B.C.
V8V 1X4
Tel: (604)356-0928

Comments, suggestions and recommendations of a more specific nature are included in the following sections, on a park-by-park basis.

4.1 KOOTENAY NATIONAL PARK

- become aware of location, administration, and contents of park herbaria, both at the W.O. (Radium Hot Springs), and at Nipika. Maintenance of herbaria should be designated to individuals with an interest in or knowledge of botany, and ability to update files, master lists, and/or collections as required.
- efforts should be made to obtain records for collections by A.E. Porsild in the 1940s and 1950s, plus collections by many other researchers issued collection permits in the 1950s and 1960s in KNP. These may be housed at a regional, provincial level or national level, or be part of a researcher's private collection.

- the ELC by Achuff et al. (1984) includes checklists of rare species, and of all flora found in KNP. This list is now out of date, and requires updating with most current tracking lists from B.C. CDC., and incorporation of checklist information as per this report, and any other literature search. The ELC includes several rare or potentially rare species for which no specimens were found in park herbaria. If specimens were collected, their current location, and whether or not they were ever verified as rare B.C. flora, should be researched.
- use a few mothballs, or other chemical deterrent to control insect/microbial damage in herbaria. If infestation appears to have occurred, remove all specimens to a deep freezer for at least 48 hours to kill. Check mounted specimens in the Family Compositae = Asteraceae for insect damage, as they are likely to be affected first (Douglas pers. comm.).
- mounted specimens must be kept dry, free of dust, and in a dark location, where possible.
- determine extent and composition of Ponderosa pine association, and what species of *Opuntia* cactus occurs in the park.

4.1.1 W.O. Herbarium (at Radium Hot Springs)

- cut ends off folders (carefully, so as not to damage specimen sheets) to allow cabinet door to close completely. This will reduce potential loss or damage of specimens to rodents, insects, or microbial infection.
- reorganize cabinet contents and computer files according to format as per revised master list of herbarium contents in this report (Appendix I).
- append herbarium files, and herbarium, non-native plant, and vascular plant checklists for KNP on computer, as new information is released. Note the existing ELC checklist is incomplete.
- update the existing computer file (WP for Windows) of herbarium contents, in an annotated format, i.e., complete label data for all plant species. This task was initiated by the author, however time did not permit completion of the file, excepting rare species, potentially rare species, and a few other families. Notes on how to complete this file will be included with disk copies sent to the park at a later date by the author.

- consider collecting vouchers of non-native species of plants to add to the collection, or to place in a separate binder for use in weed management programs. Full-colour illustrated descriptions of major non-native species may be obtained from Alberta Agriculture, for use in park weed management. Another particularly good resource material is *Weeds of the West*, published by the University of Wyoming (1992).
- consider collecting vouchers of any species known to occur in the park, but which are not currently represented in this collection.
- consider collecting additional specimens of plants in their different phenologic stages, if needed for identification purposes (e.g., obtain plant in fruit, if specimen in cabinet in flower).

4.1.2 Nipika Herbarium

- ensure cabinet door is always completely closed to prevent rodent or insect damage. This is especially important, as it is a wooden cabinet. Upgrade to a metal cabinet if at all possible.
- reorganize cabinet contents and computer files according to format as per revised master list of herbarium contents in this report (Appendix I).
- append herbarium files, and herbarium, non-native plant, and vascular plant checklists for KNP on computer, as new information is released. Note the existing ELC checklist is incomplete.
- consider collecting vouchers of any species known to occur in the park, but which are not currently represented in this collection.
- consider collecting additional specimens of plants in their different phenologic stages, if required for identification purposes, (e.g., obtain plant in fruit, if specimen in cabinet in flower).
- attempt to determine if specimens of *Epipactis gigantea* were collected, and if so, where housed. Locational data, habitat type, population size, who identified and verified it, and the date on which it was last sighted, would also be useful. This species was added to the B.C. CDC D-base file as "extirpated".

4.2 MOUNT REVELSTOKE & GLACIER NATIONAL PARKS

- become aware of location, administration, and contents of the park herbarium. Maintenance of the herbarium should be designated to individuals with an interest in or knowledge of botany, and ability to update files, master lists, and/or collections as required.
- the ELC by Achuff et al. (1984) includes checklists of rare species, and of all flora found in MRGNP. This list is now out of date, and requires updating with most current tracking lists from B.C. CDC., and incorporation of checklist information as per this report, and any other literature search. The ELC includes several rare or potentially rare species for which no specimens were found in park herbaria. If specimens were collected, their current location, and whether or not identification was ever determined to the level needed by the B.C. CDC as rare flora, should be researched.
- continue to use a few mothballs, or other chemical deterrent to control insect/microbial damage in herbaria. If infestation appears to have occurred, remove all specimens to a deep freezer for at least 48 hours to kill. Check mounted specimens in the Family Compositae = Asteraceae for insect damage, as they are likely to be affected first (Douglas pers. comm.).
- mounted specimens must be kept dry, free of dust, and in a dark location, where possible.
- cabinet contents have been completely reorganized; computer files should be organized as per revised master list of herbarium contents in this report (Appendix III).
- append herbarium files, and herbarium, non-native plant, and vascular plant checklists for MRGNP on computer, as new information is released. Note the existing ELC checklist is incomplete.
- consider collecting vouchers of non-native species of plants to add to the collection, or to place in a separate binder for use in weed management programs. Full-colour illustrated descriptions of major non-native species may be obtained from Alberta Agriculture, for use in park weed management. Another particularly good resource material is *Weeds of the West*, published by the University of Wyoming (1992).
- consider collecting vouchers of any species known to occur in the park, but which are not currently represented in this collection.

- consider collecting additional specimens of plants in their different phenologic stages, if needed for identification purposes (e.g., obtain plant in fruit, if specimen in cabinet in flower).

4.3 YOHO NATIONAL PARK

- become aware of location, administration, and contents of the park herbarium. Maintenance of the herbarium should be designated to individuals with an interest in or knowledge of botany, and ability to update files, master lists, and/or collections as required.
- herbarium cabinets must be moved as soon as possible to a warm, dry location in the park, and reorganized as per the park's 1993 ELC. Folders must be handled carefully; some specimens are quite old, and represent a significant study of regional and local flora. During the move, folders cannot be left open to the elements, due to the presence of rodents in the trailer.

Each folder needs to be examined, to ensure contents match folder titles. Some Families (and folders) are in the wrong locations in cabinets; many specimens also require further identification, relabelling, remounting, and/or updating.

- the ELC by Achuff et al. (1993) includes checklists of rare species, and of vascular flora found in YNP. This list is incomplete, and requires updating with most current tracking lists from B.C. CDC., and incorporation of information as per this report, and any other literature search. The ELC includes several rare or potentially rare species for which no specimens were found in park herbaria. If specimens were collected, their current location, and whether or not identification was ever determined to the level needed by the B.C. CDC as rare flora, should be researched.

- use a few mothballs, or other chemical deterrent to control insect/microbial damage in herbaria. If infestation appears to have occurred, remove all specimens to a deep freezer for at least 48 hours to kill. Check mounted specimens in the Family Compositae = Asteraceae for insect damage, as they are likely to be affected first (Douglas pers. comm.).

It appears that as plants are subject to freezing temperatures throughout the winter in their present location; problems with humidity fluctuation, and other types of damage are probably of greater concern.

- mounted specimens must be kept dry, free of dust, and in a dark location, to prevent further deterioration.

- consideration for further research into the contents of this herbarium are required. Assistance may be available from the B.C. CDC (Douglas pers. comm.) in conjunction with park staff and/or expert taxonomists familiar with park/mountain flora.
- the location of missing folders should also be determined.

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APPENDIX I. HERBARIUM COLLECTION FOR KOOTENAY NATIONAL PARK
 (as of December 1995)

	HOT SPRINGS W.O. HERBARIUM	NIPKA HERBARIUM
OPHIOGLOSSACEAE		
<i>Botrychium lunaria</i>	X	-
<i>B. matricariaefolium</i> var. <i>matricariaefolium</i>	X	-
<i>B. virginianum</i> var. <i>virginianum</i>	X	-
POLYPODIACEAE		
<i>Asplenium viride</i>	X	X
<i>Athyrium filix-femina</i>	X	-
<i>Cheilanthes feei</i>	X	-
<i>Cystopteris</i> sp.?	-	X
<i>C. fragilis</i>	-	X
<i>C. fragilis</i> var. <i>fragilis</i>	X	-
<i>C. montana</i>	X	-
<i>Dryopteris expansa</i> = <i>D. assimilis</i>	X	-
<i>Gymnocarpium dryopteris</i>	X	X
<i>Pellaea glabella</i>	X	-
<i>Polystichum lonchitis</i>	X	XX
<i>Woodia oregana</i> var. <i>oregana</i>	X	-
<i>W. scouleriana</i>	X	-
EQUISETACEAE		
<i>Equisetum arvense</i>	X	XX
<i>E. fluviatile</i>	X	-
<i>E. hyemale</i>	-	X
<i>E. hyemale</i> var. <i>elatum</i>	X	-
<i>E. pratense</i>	X	-
<i>E. scirpoidea</i>	X	-
<i>E. sylvaticum</i> var. <i>pauciramosum</i>	X	-
<i>E. variegatum</i> var. <i>variegatum</i>	X	-
LYCOPODIACEAE		
<i>Lycopodium alpinum</i>	X	-
<i>L. annotinum</i>	X	X
<i>L. clavatum</i>	X	-
<i>L. complanatum</i>	X	X
<i>L. sibiricum</i> var. <i>sitchensis</i> = <i>L. sitchensis</i>	X	-
<i>L. selago</i>	X	-
SELAGINELLACEAE		
<i>Selaginella densa</i>	X	-
<i>S. selaginoides</i>	X	-
CUPRESSACEAE		
<i>Juniperus communis</i>	X	-
<i>J. horizontalis</i>	X	-
<i>J. scopulorum</i>	X	-
<i>Thuja plicata</i>	X	-
PINACEAE		
<i>Abies lasiocarpa</i>	X	-
<i>Larix occidentalis</i>	X	-
<i>Picea glauca</i>	X	-
<i>Pinus albicaulis</i>	X	-
<i>P. flexilis</i>	X	-

TYPHACEAE*Typha latifolia*

X

-

SPARGANIACEAE*Sparganium minimum*

X

-

POTAMOGETONACEAE (= NAJADACEAE)*Potamogeton alpinus* var. *tenuifolius*

X

-

P. berchtoldii

X

-

P. gramineus

X

-

P. gramineus var. *gramineus*

X

-

P. praelongus

X

-

JUNCAGINACEAE*Triglochin maritima*

X

-

T. palustris

X

-

GRAMINEAE*Agropyron pectiniforme* = *A. cristatum*

X

-

A. dasystachyum

-

X

A. inerme

-

X

A. ? inerme

-

X

A. latiglume

-

X

A. repens

X

-

A. riparium

-

X

A. spicatum var. *spicatum*

X

-

A. subsecundum

-

X

A. trachycaulum

-

X

A. trachycaulum var. *latiglume*

X

-

A. trachycaulum var. *majus*

X

-

Agrostis sp.

-

X

A. exarata var. *exarata*

X

-

A. hyemalis = *A. scabra*

X

-

A. stolonifera var. *major*

X

-

A. stolonifera var. *palustris*

X

-

A. thurberiana

-

X

Bromus canadensis

X

-

Bromus canadensis = *B. ciliatus* (some authors)

X

-

B. carinatus

X

-

B. ciliatus

X

X

B. inermis

-

X

B. inermis ssp. *inermis*

X

-

B. inermis ssp. *pumpellianus*

X

-

B. pumpellianus

-

XXX

B. ? pumpellianus

-

X

B. tectorum

X

X

B. vulgaris

X

-

Calamagrostis sp.

-

X

Calamagrostis canadensis

X

X

C. inexpansa

X

-

C. montanensis

X

-

C. neglecta

-

X

C. purpurascens

X

-

C. rubescens

X

X

Cinna latifolia

X

X

Danthonia californica = *D. intermedia*

X

-

Deschampsia atropurpurea

X

-

D. cespitosa var. *cespitosa*

X

-

Elymus glaucus var. *glaucus*

X

-

E. innovatus

X

XXXXXX

E. ? macounii

-

X

E. ? virginicus

-

X

Festuca altaica = *F. campestris*

X

-

F. baffinensis

X

-

<i>F. brachyphylla</i>	-	XX
<i>F. occidentalis</i>	X	-
<i>F. ovina</i> var. <i>brachyphylla</i>	X	-
<i>F. rubra</i>	X	XX
<i>F. saximontana</i> var. <i>purpuriana</i>	X	-
<i>F. ? viridula</i>	-	X
<i>Glyceria elata</i>	X	-
<i>G. pulchella</i>	X	-
<i>G. striata</i>	X	-
<i>Hierochloe odorata</i>	X	-
<i>H. jubatum</i>	-	XX
<i>H. jubatum</i> var. <i>jubatum</i>	X	-
<i>Koeleria macrantha</i> = <i>K. cristata</i>	X	X
<i>Melica smithii</i>	X	-
<i>Oryzopsis asperifolia</i>	X	XX
<i>O. hymenoides</i>	X	-
<i>O. micrantha</i>	X	-
<i>O. pungens</i>	X	-
<i>Phleum commutatum</i> = <i>P. alpinum</i>	X	XXXX
<i>P. pratense</i>	X	X
<i>Poa</i> sp.	-	X
<i>Poa</i> ? sp.	-	X
<i>Poa alpina</i>	X	XXX
<i>P. ? alpina</i>	-	X
<i>P. annua</i>	X	X
<i>P. arctica</i>	X	XX
<i>P. canbyi</i>	X	-
<i>P. ? cusickii</i>	-	X
<i>P. compressa</i>	X	-
<i>P. epilis</i>	X	X
<i>P. ? epilis</i>	-	X
<i>P. grayana</i>	-	X
<i>P. interior</i>	X	-
<i>P. ? interior</i>	-	XX
<i>P. leptocoma</i>	X	-
<i>P. ? leptocoma</i>	-	X
<i>P. nervosa</i>	X	-
<i>P. palustris</i>	X	XX
<i>P. pattersonii</i>	-	X
<i>P. ? pattersonii</i>	-	X
<i>P. pratensis</i>	X	XX
<i>P. rupicola</i>	X	-
<i>P. stenantha</i>	X	-
<i>Schizachne purpurascens</i>	X	-
<i>Stipa columbiana</i>	X	XXX
<i>S. comata</i>	X	-
<i>S. richardsonii</i>	X	X
<i>Trisetum spicatum</i>	X	XXXXXXXX
<i>T. ? spicatum</i>	-	X
<i>Vahlodea atropurpurea</i> = <i>Deschampsia atropurpurea</i>	X	XXX
<i>V. ? atropurpurea</i>	-	X

CYPERACEAE

<i>Carex</i> sp.	-	XXXXXXXXXXXXXX
<i>Carex aenea</i>	X	-
<i>C. albo-nigra</i>	X	-
<i>C. aquatilis</i>	X	-
<i>C. atherodes</i>	X	-
<i>C. atrosquama</i>	X	-
<i>C. aurea</i> = <i>C. garberi</i>	XX	-
<i>C. ? aurea</i>	-	X
<i>C. bebbii</i>	X	-
<i>C. brunnescens</i>	X	-
<i>C. buxbaumii</i>	X	-

<i>C. capillaris</i>	X	-
<i>C. ? capitata</i>	-	X
<i>C. concinna</i>	X	-
<i>C. concinnoides</i>	X	X
<i>C. crawei</i>	X	-
<i>C. deweyana</i>	X	-
<i>C. diandra</i>	X	-
<i>C. disperma</i>	X	-
<i>C. ? drummondiana</i>	-	X
<i>C. eburnea</i>	X	-
<i>C. flava</i>	X	-
<i>C. gynocrates</i>	X	-
<i>C. haydeniana</i>	X	-
<i>C. hoodii</i>	X	-
<i>C. interior</i>	X	-
<i>C. lasiocarpa</i>	X	-
<i>C. leptalea</i>	X	-
<i>C. limosa</i>	X	-
<i>C. livida</i>	X	-
<i>C. macloviana</i>	X	-
<i>C. ? media</i>	-	X
<i>C. microglochin</i>	X	-
<i>C. nardina</i>	X	X
<i>C. nigricans</i>	X	-
<i>C. norvegica</i>	X	-
<i>C. pachystachya</i>	X	-
<i>C. paupercula</i>	X	-
<i>C. petasata</i>	X	-
<i>C. phaeocephala</i>	X	-
<i>C. ? phaeocephala</i>	-	X
<i>C. physocarpa</i> = <i>C. saxatalis</i>	X	-
<i>C. platylepis</i>	X	-
<i>C. praticola</i>	X	-
<i>C. raymondii</i>	X	-
<i>C. retrorsa</i>	-	X
<i>C. rossii</i>	X	-
<i>C. rostrata</i>	X	-
<i>C. sartwellii</i>	X	-
<i>C. scirpoidea</i>	X	XX
<i>C. scoparia</i>	X	-
<i>C. spectabilis</i>	X	-
<i>C. vaginata</i>	X	-
<i>C. viridula</i> = <i>C. oederi</i>	-	X
<i>Eleocharis acicularis</i>	X	-
<i>E. palustris</i>	X	-
<i>E. quinqueflora</i>	X	-
<i>Eriophorum chamissonis</i>	X	XX
<i>E. polystachion</i> = <i>E. angustifolium</i>	X	-
<i>E. viridi-carinatum</i>	X	-
<i>Kobresia myosuroides</i> = <i>K. bellardii</i>	X	-
<i>K. simpliciuscula</i>	X	-
<i>Scirpus</i> sp.	-	X
<i>S. acutus</i>	X	-
<i>S. cespitosus</i>	X	-
<i>S. pumilus</i>	X	-
<i>S. validus</i>	X	-
JUNCACEAE		
<i>Juncus alpinus</i> = <i>J. alpinoarticulatus</i>	X	X
<i>J. balticus</i>	X	X
<i>J. drummondii</i>	X	X
<i>J. hallii</i>	-	XX
<i>J. nodosus</i>	X	X
<i>J. parryi</i>	X	-

<i>J. saximontanus</i> = <i>J. ensifolius</i> var. <i>montanus</i>	X	-
<i>J. tenuis</i> = <i>J. dudleyi</i>	X	-
<i>J. triglumis</i>	X	-
<i>Luzula hitchcockii</i> = <i>L. glabrata</i>	X	-
<i>L. parviflora</i>	X	X
<i>L. spadicea</i>	X	-
<i>L. spicata</i>	X	X
LILIACEAE		
<i>Allium cernuum</i>	X	XXX
<i>A. schoenoprasum</i> var. <i>sibiricum</i>	-	X
<i>Calochortus macrocarpum</i>	-	XX
<i>C. apiculatus</i>	-	X
<i>Clintonia uniflora</i>	X	X
<i>Disporum trachycarpum</i>	X	XX
<i>Erythronium grandiflorum</i>	X	XX
<i>Lilium philadelphicum</i>	X	XX
<i>Smilacina racemosa</i>	X	X
<i>S. stellata</i>	X	XXX
<i>Stenanthium occidentale</i>	X	XX
<i>Streptopus amplexifolius</i>	X	X
<i>S. roseus</i>	X	-
<i>Tofieldia glutinosa</i>	X	XX
<i>T. pusilla</i>	X	XX
<i>Veratrum eschscholtzii</i> = <i>V. viride</i>	X	X
<i>Zygadenus elegans</i>	X	XXX
<i>Z. venenosus</i> = <i>Z. gramineus</i>	X	-
IRIDACEAE		
<i>Sisyrinchium montanum</i>	X	X
<i>S. sarmmentosum</i> = <i>S. septentrionale</i>	-	X
ORCHIDACEAE		
<i>Calypso bulbosa</i>	X	X
<i>Coeloglossum viride</i> = <i>Habenaria viridis</i>	X	-
<i>Corallorrhiza maculata</i>	X	-
<i>C. striata</i>	X	-
<i>C. trifida</i>	X	X
<i>Cypripedium montanum</i>	-	X
<i>C. passerinum</i>	X	XX
<i>Goodyera oblongifolia</i>	X	-
<i>G. repens</i>	X	X
<i>Listera borealis</i>	X	-
<i>L. cordata</i>	X	X
<i>Orchis rotundifolia</i>	X	XX
<i>Platanthera dilatata</i> = <i>Habenaria dilatata</i>	X	-
<i>Platanthera dilatata</i> = <i>H. ? dilatata</i>	-	X
<i>P. dilatata</i> var. <i>leucostachys</i>	-	X
<i>P. hyperborea</i> = <i>Habenaria hyperborea</i>	X	XX
<i>P. obtusata</i> = <i>Habenaria obtusata</i>	X	X
<i>P. orbiculata</i> = <i>Habenaria orbiculata</i>	X	-
<i>P. saccata</i> = <i>Habenaria saccata</i>	X	-
<i>P. unalascensis</i> = <i>Habenaria unalascensis</i>	X	X
<i>Spiranthes romanzoffiana</i>	X	X
SALICACEAE		
<i>Populus X brayshawii</i> (<i>Populus angustifolia</i> X <i>P. balsamifera</i>)	X	-
<i>P. balsamifera</i>	X	-
<i>P. tremuloides</i>	X	-
<i>Salix</i> sp.	-	XXX
<i>S. arctica</i>	X	-
<i>S. barclayi</i>	X	-
<i>S. barrattiana</i>	X	-
<i>S. bebbiana</i>	X	-

<i>S. brachycarpa</i> ssp. <i>brachycarpa</i>	X	-	-
<i>S. candida</i>	X	-	-
<i>S. commutata</i>	X	-	-
<i>S. drummondiana</i>	X	-	-
<i>S. farriae</i>	X	-	-
<i>S. glauca</i>	X	-	-
<i>S. melanopsis</i> = <i>S. interior</i>	X	-	-
<i>S. myrtillifolia</i>	X	-	X
<i>S. nivalis</i> = <i>S. reticulata</i>	-	-	-
<i>S. prolixa</i> = <i>S. mackenziana</i>	X	-	-
<i>S. pseudomonticola</i>	X	-	-
<i>S. scouleriana</i>	X	-	-
<i>S. ? scouleriana</i> or <i>glaucia</i>	-	-	X
<i>S. vestita</i>	X	-	X
BETULACEAE			
<i>Alnus crispa</i>	-	-	X
<i>A. crispa</i> ssp. <i>sinuata</i> = <i>A. viridis</i> ssp. <i>sinuata</i>	X	-	-
<i>Betula occidentalis</i>	X	-	-
<i>B. papyrifera</i>	X	-	-
<i>B. X sargentii</i> = <i>B. glandulosa</i> X <i>B. pumila</i>	X	-	-
URTICACEAE			
<i>Urtica dioica</i> var. <i>procera</i>	-	-	X
<i>U. gracilis</i> = <i>U. dioica</i>	-	-	X
<i>U. gracilis</i> = <i>U. dioica</i> var. <i>gracilis</i>	X	-	-
SANTALACEAE			
<i>Comandra pallida</i> = <i>C. umbellata</i>	X	-	-
<i>Geocaulon lividum</i> = <i>Comandra livida</i>	X	-	XX
POLYGONACEAE			
<i>Eriogonum umbellatum</i> = <i>E. subalpinum</i>	X	-	XX
<i>Oxyria digyna</i>	X	-	XXX
<i>Polygonum amphibium</i>	X	-	-
<i>P. amphibium</i> var. <i>stipulaceum</i>	-	-	X
<i>P. ? austinae</i>	-	-	X
<i>P. viviparum</i>	X	-	X
CHENOPODIACEAE			
<i>Chenopodium album</i>	X	-	X
<i>C. capitatum</i>	X	-	X
<i>C. fremontii</i>	X	-	-
PORTULACACEAE			
<i>Claytonia lanceolata</i>	X	-	XX
CARYOPHYLLACEAE			
<i>Arenaria capillaris</i>	X	-	-
<i>A. capillaris</i> var. <i>americana</i>	-	-	X
<i>A. lateriflora</i> = <i>Moehringia lateriflora</i>	X	-	XXX
<i>A. stricta</i> var. <i>dawsonensis</i>	X	-	-
<i>Cerastium arvense</i>	X	-	X
<i>C. beeringianum</i>	X	-	-
<i>C. vulgatum</i>	X	-	-
<i>Lychnis apetala</i> ssp. <i>attenuata</i>	-	-	X
<i>Minuartia austromontana</i> = <i>Arenaria rossii</i>	X	-	-
<i>M. biflora</i> = <i>Arenaria sajanensis</i>	X	-	-
<i>M. biflora</i> = <i>A. ? sajanensis</i>	-	-	X
<i>M. dawsonensis</i> = <i>Arenaria dawsonensis</i>	-	-	X
<i>M. nuttallii</i> = <i>Arenaria nuttallii</i>	-	-	X
<i>M. obtusiloba</i> = <i>Arenaria obtusiloba</i>	X	-	XX
<i>M. rubella</i> = <i>Arenaria rubella</i>	X	-	-
<i>Sagina ? nodosa</i>	-	-	X

<i>Silene acaulis</i>	X	X
<i>S. acaulis</i> var. <i>excapa</i>	-	X
<i>S. drummondii</i> = <i>Lychnis drummondii</i>	X	-
<i>S. menziesii</i>	X	X
<i>S. parryi</i>	X	X
<i>S. scouleri</i>	X	-
<i>S. uralensis</i> = <i>Lychnis apetala</i>	X	-
<i>Stellaria calycantha</i>	X	-
<i>S. longifolia</i>	X	-
<i>S. longipes</i>	X	X
<i>S. ? longipes</i>	-	X

RANUNCULACEAE

<i>Actaea rubra</i>	X	XX
<i>Anemone</i> sp.	-	XX
<i>A. lithophila</i> = <i>A. drummondii</i>	X	XXX
<i>A. multifida</i>	X	XX
<i>A. occidentalis</i>	-	X
<i>A. parviflora</i>	X	XX
<i>A. patens</i>	X	X
<i>A. riparia</i>	-	X
<i>Aquilegia brevistyla</i>	X	-
<i>A. flavescens</i>	X	XXX
<i>A. flavescens</i> var. <i>miniata</i>	-	X
<i>Caltha leptosepala</i>	-	X
<i>Clematis occidentalis</i> = <i>C. verticillaris</i> var. <i>columbiana</i>	X	XX
<i>C. tangutica</i>	-	X
<i>Delphinium glaucum</i>	X	-
<i>D. nuttallianum</i>	X	XXXX
<i>Ranunculus abortivus</i>	X	-
<i>R. acris</i>	X	X
<i>R. cymbalaria</i>	X	-
<i>R. eschscholtzii</i>	X	XX
<i>R. ? eschscholtzii</i>	-	X
<i>R. occidentalis</i>	X	-
<i>R. pygmaeus</i>	-	X
<i>R. verecundus</i>	X	-
<i>Thalictrum occidentale</i>	X	X
<i>T. occidentale</i> var. <i>palousense</i>	-	X
<i>Trollius albiflorus</i>	X	X

BERBERIDACEAE

<i>Berberis repens</i>	X	XX
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FUMARIACEAE

<i>Corydalis aurea</i>	-	X
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BRASSICACEAE (= CRUCIFERAE)

<i>Arabis divaricarpa</i>	X	-
<i>A. drummondii</i>	X	X
<i>A. glabra</i>	X	-
<i>A. hirsuta</i>	X	-
<i>A. holboellii</i>	-	X
<i>A. holboellii</i> var. <i>retrofracta</i>	X	-
<i>A. lemmonii</i>	X	X
<i>A. lyallii</i>	X	XXX
<i>A. lyrata</i>	X	X
<i>A. ? nuttallii</i>	-	XX
<i>Braya humilis</i>	X	-
<i>Capsella bursa-pastoris</i>	X	X
<i>Cardamine breweri</i>	X	-
<i>C. umbellata</i> = <i>C. oligosperma</i>	X	-
<i>Descurainia</i> sp.	-	X
<i>Descurainia pinnata</i>	X	-

<i>D. richardsonii</i>	X	-
<i>D. sophia</i>	X	-
<i>Draba sp.</i>	-	XX
<i>D. albertina</i>	X	-
<i>D. aurea</i>	X	X
<i>D. borealis</i>	X	-
<i>D. cana</i>	X	-
<i>D. crassifolia</i>	X	-
<i>D. incerta</i>	X	XX
<i>D. lonchocarpa</i> var. <i>lonchocarpa</i>	X	-
<i>D. oligosperma</i>	X	-
<i>D. ? oligosperma</i>	-	X
<i>D. paysonii</i>	X	-
<i>D. paysonii</i> var. <i>treleasii</i>	-	X
<i>D. porsildii</i>	X	-
<i>D. praealta</i>	X	-
<i>D. stenoloba</i>	X	-
<i>Eructastrum gallicum</i>	X	-
<i>Erysimum sp.</i>	-	X
<i>E. asperum</i>	X	-
<i>E. cheiranthoides</i>	X	-
<i>E. inconspicuum</i>	X	XX
<i>Lepidium densiflorum</i>	X	-
<i>L. ramosissimum</i>	X	-
<i>Lesquerella sp.</i>	-	X
<i>L. douglasii</i>	X	X
<i>Physaria didymocarpa</i>	X	X
<i>Rorippa palustris</i> = <i>R. islandica</i>	-	X
<i>Sisymbrium altissimum</i>	X	-
DROSERACEAE		
<i>Drosera anglica</i>	X	X
CRASSULACEAE		
<i>Sedum lanceolatum</i>	X	XX
SAXIFRAGACEAE		
<i>Heuchera cylindrica</i>	X	XX
<i>H. cylindrica</i> var. <i>septentrionalis</i>	-	X
<i>Leptarrhena pyrolifolia</i>	X	XX
<i>Lithophragma parviflorum</i>	X	-
<i>Mitella sp.</i>	-	X
<i>M. breweri</i>	X	-
<i>M. nuda</i>	X	X
<i>M. pentandra</i>	X	-
<i>M. trifida</i>	X	-
<i>Parnassia fimbriata</i>	X	X
<i>P. palustris</i>	X	-
<i>P. palustris</i> var. <i>neogaea</i>	-	X
<i>P. parviflora</i>	X	X
<i>Saxifraga adscendens</i>	X	XX
<i>S. aizoides</i>	X	XX
<i>S. bronchialis</i>	X	XXX
<i>S. caespitosa</i>	X	-
<i>S. cernua</i>	X	X
<i>S. debilis</i> = <i>S. hyperborea</i>	X	-
<i>S. ferruginea</i>	-	XX
<i>S. lyallii</i>	X	XXX
<i>S. occidentalis</i>	X	X
<i>S. oppositifolia</i>	X	XXX
<i>Tiarella trifoliata</i> var. <i>unifoliata</i> = <i>T. unifoliata</i>	X	XX

GROSSULARIACEAE

<i>Ribes hirtellum</i>	-	X
<i>R. hudsonianum</i>	X	-
<i>R. lacustre</i>	X	XX
<i>R. laxiflorum</i>	X	-
<i>R. oxyacanthoides</i>	X	-
<i>R. viscosissimum</i>	X	-

ROSACEAE

<i>Amelanchier alnifolia</i>	-	XX
<i>Dryas drummondii</i>	X	X
<i>D. hookeriana</i> = <i>D. octopetala</i>	X	XX
<i>Fragaria virginiana</i>	X	X
<i>F. virginiana</i> ssp. <i>glaucia</i>	-	X
<i>F. virginiana</i> var. <i>platypetala</i>	-	XX
<i>Geum macrophyllum</i>	X	-
<i>G. macrophyllum</i> var. <i>perincisum</i>	-	X
<i>G. triflorum</i>	X	X
<i>Potentilla anserina</i>	X	-
<i>P. diversifolia</i>	X	XXX
<i>P. fruticosa</i>	X	XX
<i>P. gracilis</i>	-	XX
<i>P. hyparctica</i>	X	-
<i>P. ledebouriana</i> = <i>P. uniflora</i>	-	X
<i>P. nivea</i>	X	-
<i>P. norvegica</i>	X	-
<i>P. palustris</i>	X	X
<i>P. pensylvanica</i>	X	-
<i>Prunus pensylvanica</i>	-	X
<i>P. virginiana</i>	X	XX
<i>Rosa acicularis</i>	X	XXX
<i>R. woodsii</i>	X	-
<i>Rubus acaulis</i> = <i>R. arcticus</i>	X	XX
<i>R. idaeus</i> = <i>R. strigosus</i>	X	X
<i>R. ? idaeus</i>	-	X
<i>R. parviflorus</i>	X	XX
<i>R. pedatus</i>	X	X
<i>R. pubescens</i>	-	XX
<i>Sibbaldia procumbens</i>	X	XX
<i>Sorbus scopulina</i>	X	X
<i>Spiraea betulifolia</i> var. <i>lucida</i> = <i>S. lucida</i>	X	XXX

FABACEAE (= LEGUMINOSAE)

<i>Astragalus</i> sp.	-	X
<i>A. aboriginum</i>	X	-
<i>A. alpinus</i>	X	X
<i>A. americanus</i>	X	-
<i>A. bourgovii</i>	X	-
<i>A. dasystachys</i> = <i>A. agrestis</i>	X	X
<i>A. decumbens</i> = <i>A. miser</i>	X	X
<i>A. ? decumbens</i>	-	X
<i>A. eucosmus</i>	X	-
<i>A. lotiflorus</i>	X	-
<i>A. occidentalis</i> = <i>A. robbinsii</i>	-	XX
<i>A. ? occidentalis</i>	-	X
<i>Hedysarum boreale</i>	X	XX
<i>H. sulphurescens</i>	X	XX
<i>Lathyrus ochroleucus</i>	X	-
Medicago - empty folder in herbarium	-	X
<i>Medicago lupulina</i>	X	X
<i>M. sativa</i>	X	X
<i>Melilotus alba</i>	X	X
<i>M. officinalis</i>	-	XX
<i>Oxytropis campestris</i>	X	XX

O. deflexa	-	X
O. podocarpa	X	X
O. sericea	X	-
O. sericea var. spicata	-	X
O. viscida	X	-
Trifolium agrarium = T. aureum	X	-
T. hybridum	X	X
T. pratense	X	XX
T. repens	-	X
Vicia americana	X	-
V. cracca	X	-
GERANIACEAE		
Geranium bicknellii	X	-
G. richardsonii	X	X
G. viscosissimum	X	-
LINACEAE		
Linum lewisii	X	X
EUPHORBIACEAE		
Euphorbia esula	X	-
EMPETRACEAE		
Empetrum nigrum	X	X
CELASTRACEAE		
Pachystima myrsinoides	X	-
ACERACEAE		
Acer glabrum = A. douglasii	X	XX
RHAMNACEAE		
Ceanothus sanguineus	X	-
C. velutinus	-	X
HYPERICACEAE		
Hypericum perforatum	X	-
VIOLACEAE		
Viola adunca	X	XX
V. canadensis var. rugulosa = V. rugulosa	X	XX
V. glabella	-	X
V. nephrophylla	X	-
V. orbiculata	X	X
V. ? palustris	-	X
V. renifolia	X	-
ELAEAGNACEAE		
Elaeagnus commutata	X	X
Shepherdia canadensis	X	X
ONAGRACEAE		
Circaeaa alpina	X	-
Epilobium sp.	-	X
E. alpinum	-	XXX
E. alpinum var. clavatum	X	-
E. alpinum var. lactiflorum	X	-
E. alpinum var. nutans = E. hornemannii	X	-
E. anagallidifolium = E. alpinum var. alpinum	X	-
E. angustifolium	X	XXX
E. glaberrimum var. glaberrimum	-	X
E. glandulosum = E. ciliatum	X	-
E. latifolium	X	XX

<i>E. palustre</i>	X	X
<i>E. ? palustre</i>	-	X
<i>E. paniculatum</i>	X	-
HALORAGIDACEAE		
<i>Myriophyllum spicatum</i> = <i>M. exalbescens</i>	X	-
ARALIACEAE		
<i>Aralia nudicaulis</i>	X	X
<i>Opiopanax horridum</i>	X	-
APIACEAE (= UMBELLIFERAE)		
<i>Cicuta douglasii</i> = <i>C. maculata</i>	X	-
<i>Heracleum lanatum</i>	-	XX
<i>Lomatium dissectum</i>	X	-
<i>L. dissectum</i> var. <i>multifidum</i>	-	X
<i>L. macrocarpum</i>	X	X
<i>L. triternatum</i>	X	XX
<i>Osmorhiza chilensis</i> var. <i>chilensis</i>	X	-
<i>O. chilensis</i> var. <i>purpurea</i>	X	-
<i>O. depauperata</i>	X	-
<i>Sanicula marilandica</i>	-	X
CORNACEAE		
<i>Cornus canadensis</i>	X	XX
<i>C. stolonifera</i>	X	X
<i>C. stolonifera</i> or <i>sericea</i> ?	-	X
PYROLACEAE		
<i>Chimaphila umbellata</i>	X	X
<i>Moneses uniflora</i>	X	XX
<i>Orthilia secunda</i> = <i>Pyrola secunda</i>	X	X
<i>Pyrola asarifolia</i>	X	XX
<i>P. chlorantha</i> = <i>P. virens</i>	X	X
<i>P. elliptica</i>	X	-
<i>P. minor</i>	X	X
ERICACEAE		
<i>Arctostaphylos alpina</i> var. <i>rubra</i> = <i>A. rubra</i>	X	-
<i>A. uva-ursi</i>	X	XX
<i>Cassiope</i> - empty folder in herbarium	-	X
<i>Cassiope mertensiana</i>	X	X
<i>C. tetragona</i>	X	-
<i>Gaultheria hispidula</i>	X	-
<i>G. humifusa</i>	X	-
<i>G. ovatifolia</i>	X	-
<i>Kalmia</i> - empty folder in herbarium	-	X
<i>Kalmia microphylla</i> = <i>K. polifolia</i> var. <i>microphylla</i>	X	-
<i>K. polifolia</i>	-	X
<i>Ledum glandulosum</i>	-	X
<i>L. glandulosum</i> var. <i>glandulosum</i>	X	-
<i>L. groenlandicum</i>	X	XX
<i>Menziesia glabella</i> = <i>M. ferruginea</i> ; / <i>M. f.</i> var. <i>glabella</i>	X	XX
<i>Oxycoccus microcarpus</i>	X	-
<i>Phyllodoce empetrifloris</i>	X	X
<i>P. glanduliflora</i>	X	XX
<i>X P. intermedia</i>	X	-
<i>Rhododendron albiflorum</i>	X	XX
<i>Vaccinium caespitosum</i>	X	-
<i>V. membranaceum</i>	X	-
<i>V. myrtilloides</i>	X	-
<i>V. myrtillus</i>	X	X
<i>V. ovalifolium</i>	X	-
<i>V. scoparium</i>	X	X

<i>V. vitis-idaea</i>	X	-
PRIMULACEAE		
<i>Androsace septentrionalis</i>	X	X
<i>Dodecatheon conjugens</i>	X	X
<i>D. conjugens</i> ssp. <i>viscidum</i>	-	X
<i>D. pulchellum</i> = <i>D. radicatum</i>	X	-
<i>Primula mistassinica</i>	X	XX
GENTIANACEAE		
<i>Gentianella amarella</i>	X	-
<i>G. amarella</i> ssp. <i>acuta</i>	-	X
<i>G. propinqua</i>	X	XX
<i>Halenia deflexa</i>	X	-
MENYANTHACEAE		
<i>Menyanthes trifoliata</i>	X	X
APOCYNACEAE		
<i>Apocynum androsaemifolium</i>	X	XX
<i>A. androsaemifolium</i> var. <i>pumilum</i>	-	X
POLEMONIACEAE		
<i>Polemonium pulcherrimum</i>	X	X
Unknown Polemoniaceae ?	-	X
HYDROPHYLLOACEAE		
<i>Phacelia hastata</i> = <i>P. heterophylla</i>	X	-
<i>P. ? leptosepala</i> or <i>heterophylla</i>	-	X
<i>P. sericea</i>	X	-
<i>Romanzoffia sitchensis</i>	X	-
BORAGINACEAE		
<i>Cynoglossum officinale</i>	-	X
<i>Hackelia deflexa</i> = <i>H. americana</i>	X	-
<i>H. floribunda</i>	X	-
<i>H. jessicae</i> = <i>H. micrantha</i>	X	-
<i>H. ? jessicae</i>	-	X
<i>Lappula</i> sp.?	-	X
<i>L. echinata</i> = <i>L. squarrosa</i>	X	X
<i>Lithospermum incisum</i>	X	-
<i>L. ruderale</i>	X	XX
<i>Mertensia longiflora</i>	-	X
<i>Myosotis alpestris</i>	-	XX
<i>M. sylvatica</i> var. <i>alpestris</i>	X	-
LABIATAE		
<i>Mentha arvensis</i>	X	-
<i>Nepeta cataria</i>	X	-
<i>Prunella vulgaris</i>	X	XX
Unknown Labiate	-	X
SCROPHULARIACEAE		
<i>Castilleja</i> sp.	-	X
<i>C. cervina</i>	X	-
<i>C. hispida</i>	X	-
<i>C. miniata</i>	X	XX
<i>C. occidentalis</i>	X	X
<i>C. ? occidentalis</i>	-	X
<i>C. rhexifolia</i>	X	-
<i>C. septentrionalis</i>	-	XX
<i>Collinsia parviflora</i>	X	XX
<i>Melampyrum lineare</i>	X	-
<i>Pedicularis bracteosa</i>	X	XX

<i>P. contorta</i>	X	XXX
<i>P. racemosa</i>	X	XX
<i>Penstemon confertus</i>	X	XX
<i>P. ellipticus</i>	X	-
<i>P. eriantherus</i>	X	X
<i>P. fruticosus</i>	X	-
<i>P. fruticosus</i> var. or ssp. <i>scouleri</i>	-	X
<i>P. lyallii</i>	-	X
<i>Verbascum thapsus</i>	-	X
<i>Veronica alpina</i>	X	-
<i>V. alpina</i> var. <i>unalascensis</i>	-	XX
<i>V. americana</i>	X	X
OROBANCHACEAE		
<i>Orobanche fasciculata</i>	X	-
LENTIBULARIACEAE		
<i>Pinguicula vulgaris</i>	X	XX
<i>Utricularia minor</i>	X	-
<i>U. vulgaris</i>	-	X
PLANTAGINACEAE		
<i>Plantago major</i>	X	X
RUBIACEAE		
<i>Galium boreale</i>	X	XXX
<i>G. trifidum</i>	X	-
<i>G. triflorum</i>	X	XX
CAPRIFOLIACEAE		
<i>Linnaea borealis</i> = <i>L. b.</i> var. or ssp. <i>americana</i>	X	XX
<i>Lonicera</i> ? <i>ciliosa</i>	-	X
<i>L. dioica</i>	X	-
<i>L. involucrata</i>	X	X
<i>L.</i> ? <i>involucrata</i>	-	X
<i>L. utahensis</i>	X	X
<i>Sambucus coerulea</i>	X	-
<i>S. melanocarpa</i> = <i>S. racemosa</i> var. <i>melanocarpa</i>	X	-
<i>S. pubens</i> = <i>S. racemosa</i> var. <i>pubens</i>	-	X
<i>Symphoricarpos albus</i>	X	-
<i>S. occidentalis</i>	X	X
<i>Viburnum edule</i>	X	X
VALERIANACEAE		
<i>Valeriana sitchensis</i>	X	XX
<i>V.</i> ? <i>sitchensis</i>	-	X
CAMPANULACEAE		
<i>Campanula rotundifolia</i>	X	XXX
LOBELIACEAE		
<i>Lobelia kalmii</i>	X	-
ASTERACEAE (= COMPOSITAE)		
<i>Achillea millefolium</i>	X	XXX
<i>Agoseris</i> sp.	-	X
<i>A. aurantiaca</i>	X	XX
<i>A. glauca</i>	X	XX
<i>Anaphalis margaritacea</i>	X	XXX
<i>Antennaria alpina</i> = <i>A. media</i> ; <i>A. a.</i> var. <i>media</i>	X	XX
<i>A. anaphaloides</i>	X	-
<i>A. aprica</i> = <i>A. parviflora</i>	-	X
<i>A. corymbosa</i>	X	-
<i>A. lanata</i>	X	XX

<i>A. neglecta</i>	X	-
<i>A. neglecta</i> = <i>A. campestris</i>	-	X
<i>A. nitida</i> = <i>A. parvifolia</i>	XX	XX
<i>A. ? nitida</i>	-	X
<i>A. pulcherrima</i>	X	X
<i>A. racemosa</i>	X	XXX
<i>A. rosea</i>	X	XX
<i>A. umbrinella</i>	X	-
<i>Anthemis tinctoria</i>	X	X
<i>Arnica angustifolia</i> = <i>A. alpina</i>	X	-
<i>A. cordifolia</i>	X	X
<i>A. diversifolia</i>	-	X
<i>A. latifolia</i>	X	-
<i>A. ? latifolia</i> var. <i>gracilis</i>	-	X
<i>A. louiseana</i>	X	-
<i>A. mollis</i>	X	-
<i>A. parryi</i> var. <i>parryi</i>	X	-
<i>A. rydbergii</i>	X	XXX
<i>A. sororia</i>	X	-
<i>Artemisia</i> sp.	-	X
<i>A. campestris</i>	X	-
<i>A. dracunculus</i>	X	-
<i>A. frigida</i>	X	-
<i>A. michauxiana</i>	X	-
<i>A. michauxiana</i> = <i>A. campestris</i>	X	XX
<i>A. michauxiana</i> = <i>A. discolor</i> ; <i>A. vulgaris</i> ssp. <i>discolor</i>	-	X
<i>Aster</i> sp.	-	X
<i>A. alpinus</i>	-	XX
<i>A. borealis</i>	X	-
<i>A. campestris</i>	X	-
<i>A. ciliolatus</i>	X	XXXXXX
<i>A. conspicuus</i>	X	XX
<i>A. engelmannii</i>	X	-
<i>A. ericoides</i>	X	-
<i>A. foliaceus</i> = <i>A. subspicatus</i>	X	-
<i>A. laevis</i>	X	-
<i>A. laevis</i> var. <i>geyeri</i>	-	X
<i>A. ? modestus</i>	-	X
<i>A. sibiricus</i>	X	X
<i>Balsamorhiza sagittata</i>	X	XX
<i>Centaurea diffusa</i>	X	-
<i>C. maculosa</i>	X	X
<i>Chrysanthemum nauseosus</i>	X	XX
<i>Cirsium arvense</i>	X	X
<i>C. hookerianum</i>	X	X
<i>C. undulatum</i>	X	X
<i>C. vulgare</i>	X	-
<i>Crepis atrabarba</i>	X	X
<i>C. elegans</i>	X	-
<i>C. nana</i>	X	-
<i>Erigeron</i> sp.	-	X
<i>E. acris</i>	-	X
<i>E. acris</i> var. or ssp. <i>elatus</i> = <i>E. elatus</i>	X	-
<i>E. ? asper</i>	-	X
<i>E. aureus</i>	X	XXX
<i>E. compositus</i>	X	XX
<i>E. corymbosus</i>	X	-
<i>E. filifolius</i>	X	-
<i>E. glabellus</i>	X	-
<i>E. humilis</i>	X	XXX
<i>E. lanatus</i>	X	X
<i>E. ionchophyllum</i>	X	-
<i>E. ? ochroleucus</i>	-	X
<i>E. peregrinus</i>	X	XX

<i>E. pumilis</i>	X	X
<i>Gaillardia aristata</i>	X	XX
<i>Haplopappus lyallii</i>	X	-
<i>Helenium autumnale</i> var. <i>grandiflorum</i>	X	-
<i>Heterotheca villosa</i> = <i>Chrysopsis villosa</i>	X	XX
<i>Hieracium albiflorum</i>	X	X
<i>H. albertinum</i> = <i>H. cynoglossoides</i>	-	XXX
<i>H. canadense</i> = <i>H. umbellatum</i>	XX	X
<i>H. triste</i> ssp. <i>gracile</i> = <i>H. gracile</i>	X	-
<i>Lactuca pulchella</i> = <i>L. tartarica</i> ssp. <i>pulchella</i>	-	X
<i>L. serriola</i>	X	X
<i>L. tartarica</i>	X	-
<i>Leucanthemum vulgare</i> = <i>Chrysanthemum leucanthemum</i>	X	X
<i>Lygodesmia juncea</i>	-	X
<i>Matricaria matricarioides</i>	X	-
<i>Petasites</i> sp.	-	X
<i>P. palmatus</i>	X	-
<i>P. sagittatus</i>	X	-
<i>P. vitifolius</i>	X	-
<i>Rudbeckia hirta</i>	X	-
<i>Saussurea densa</i> = <i>S. nuda</i>	X	XX
<i>Senecio canus</i>	X	X
<i>S. fremontii</i>	X	XX
<i>S. integrifolius</i>	-	X
<i>S. ? integrifolius</i>	-	X
<i>S. lugens</i>	X	XX
<i>S. ? lugens</i>	-	XX
<i>S. pauciflorus</i>	-	X
<i>S. pauperculus</i>	X	-
<i>S. pauperulus</i> var. <i>flavovirens</i>	-	X
<i>S. pauperulus</i> var. <i>thompsoniensis</i> or <i>cymbalariaeoides</i> ?	-	X
<i>S. pseudauraeus</i>	X	-
<i>S. streptanthifolius</i> = <i>S. cymbalariaeoides</i>	X	-
<i>S. triangularis</i>	X	X
<i>Solidago</i> sp. ?	-	XXX
<i>S. canadensis</i>	X	-
<i>S. decumbens</i> = <i>S. spathulata</i>	-	X
<i>S. missouriensis</i>	X	-
<i>S. ? missouriensis</i>	-	X
<i>S. multiradiata</i>	X	X
<i>S. nemoralis</i>	X	-
<i>S. rigida</i> var. <i>humilis</i>	-	X
<i>S. spathulata</i> var. <i>neomexicana</i>	X	X
<i>S. spathulata</i> var. <i>nana</i>	-	X
<i>Sonchus arvensis</i>	X	-
<i>S. uliginosus</i>	X	-
<i>S. ? uliginosus</i>	-	X
<i>Stenophanomeria tenuifolia</i> = <i>S. runcinata</i>	-	X
<i>Tanacetum vulgare</i>	-	X
<i>Taraxacum ceratophorum</i> = <i>T. lyratum</i>	XX	-
<i>T. laevigatum</i>	X	-
<i>T. ? lyratum</i>	-	X
<i>T. officinale</i>	X	-
<i>T. ? officinale</i>	-	X
<i>Townsendia hookeri</i>	X	-
<i>Tragopogon dubius</i>	X	X

**APPENDIX II. VASCULAR PLANT CHECKLIST
FOR KOOTENAY NATIONAL PARK**
(as of December 1995)

Unless otherwise indicated, all records are from the park ELC (1984).
B.C. CDC refers to tracking records filed with Conservation Data Centre, Victoria.

OPHIOGLOSSACEAE

<i>Botrychium lunaria</i>	(Hogg 1993)
<i>B. matricariaefolium</i>	
<i>B. matricariaefolium</i> var. <i>matricariaefolium</i>	(Hogg 1993) - not in ELC
<i>B. virginianum</i>	
<i>B. virginianum</i> var. <i>virginianum</i>	(Hogg 1993) - not in ELC

POLYPODIACEAE

<i>Asplenium viride</i>	
<i>Athyrium filix-femina</i>	
<i>Cheilanthes feei</i>	(Park Memo Oct. 28/86)
<i>Cryptogramma stelleri</i>	(Hogg 1993) - not in ELC
<i>Cystopteris fragilis</i>	
<i>C. fragilis</i> var. <i>fragilis</i>	(Hogg 1993) - not in ELC
<i>C. montana</i>	(Park Memo Oct. 28/86)
<i>Dryopteris expansa</i> = <i>D. assimilis</i>	
<i>Gymnocarpium dryopteris</i>	
<i>Pellaea glabella</i>	
<i>Polystichum lonchitis</i>	
<i>Woodsia glabella</i>	(B.C. CDC) - not in ELC
<i>W. oregana</i>	
<i>W. oregana</i> var. <i>oregana</i>	(Hogg 1993) - not in ELC
<i>W. scopulina</i>	

EQUISETACEAE

<i>Equisetum arvense</i>	(Hogg 1993)
<i>E. fluviatile</i>	
<i>E. hyemale</i>	
<i>E. hyemale</i> var. <i>elatum</i>	(Hogg 1993) - not in ELC
<i>E. pratense</i>	
<i>E. scirpoidea</i>	(Hogg 1993)
<i>E. sylvaticum</i>	
<i>E. sylvaticum</i> var. <i>pauciramosum</i>	(Hogg 1993) - not in ELC
<i>E. variegatum</i>	
<i>E. variegatum</i> var. <i>variegatum</i>	(Hogg 1993) - not in ELC

LYCOPODIACEAE

<i>Lycopodium alpinum</i>	
<i>L. annotinum</i>	(Hogg 1993)
<i>L. clavatum</i>	
<i>L. complanatum</i>	(Hogg 1993)
<i>L. sabinaeifolium</i> var. <i>sitchensis</i> = <i>L. sitchensis</i>	
<i>L. selago</i>	

SELAGINELLACEAE

<i>Selaginella densa</i>	(Hogg 1993)
<i>S. selaginoides</i>	(Hogg 1993)

CUPRESSACEAE

<i>Juniperus communis</i>	(Hogg 1993)
<i>J. horizontalis</i>	
<i>J. scopulorum</i>	
<i>Thuja plicata</i>	

PINACEAE

<i>Abies lasiocarpa</i>	(Hogg 1993)
<i>Larix lyallii</i>	
<i>L. occidentalis</i>	
<i>Picea engelmannii</i>	(Hogg 1993)
<i>P. glauca</i>	
<i>Pinus albicaulis</i>	(Hogg 1993)
<i>P. contorta</i>	(Hogg 1993) - not in ELC
<i>P. contorta</i> var. <i>latifolia</i>	
<i>P. flexilis</i>	
<i>P. ponderosa</i>	(Park Memo Oct. 28/86)
<i>Pseudotsuga menziesii</i>	
<i>Tsuga heterophylla</i>	

TYPHACEAE

<i>Typha latifolia</i>

SPARGANIACEAE

<i>Sparganium minimum</i>

POTAMOGETONACEAE (= NAJADACEAE)

<i>Potamogeton alpinus</i>	
<i>P. alpinus</i> var. <i>tenuifolius</i>	(herbarium) - not in ELC
<i>P. berchtoldii</i> = <i>P. pusillus</i>	
<i>P. gramineus</i>	
<i>P. gramineus</i> var. <i>gramineus</i>	(herbarium) - not in ELC
<i>P. praelongus</i>	

JUNCAGINACEAE

<i>Triglochin maritima</i>	
<i>T. palustris</i>	(Hogg 1993)

GRAMINEAE

<i>Agropyron pectiniforme</i> = <i>A. cristatum</i>	non-native plant checklist
<i>A. dasystachyum</i>	(herbarium) - not in ELC
<i>A. inerme</i>	(herbarium) - not in ELC
<i>A. ? inerme</i>	(herbarium) - not in ELC
<i>A. latiglume</i>	(herbarium) - not in ELC
<i>A. repens</i>	non-native plant checklist
<i>A. riparium</i>	(herbarium) - not in ELC
<i>A. spicatum</i>	
<i>A. spicatum</i> var. <i>spicatum</i>	(herbarium) - not in ELC
<i>A. subsecundum</i>	(herbarium) - not in ELC
<i>A. trachycaulum</i>	
<i>A. trachycaulum</i> var. <i>latiglume</i>	(herbarium) - not in ELC
<i>A. trachycaulum</i> var. <i>majus</i>	(herbarium) - not in ELC
<i>A. violaceum</i>	
<i>Agrostis exarata</i>	
<i>A. exarata</i> var. <i>exarata</i>	(herbarium) - not in ELC
<i>A. hyemalis</i>	- not in ELC
<i>A. hyemalis</i> = <i>A. scabra</i>	(herbarium) - not in ELC
<i>A. scabra</i>	
<i>A. stolonifera</i>	(Hogg 1993, non-native plant checklist)
<i>A. stolonifera</i> var. <i>major</i>	(herbarium) - not in ELC
<i>A. stolonifera</i> var. <i>palustris</i>	(herbarium) - not in ELC
<i>A. thurberiana</i>	(herbarium) - not in ELC
<i>A. variabilis</i>	
<i>Bromus canadensis</i>	(herbarium) - not in ELC
<i>B. canadensis</i> = <i>B. ciliatus</i> (some authors)	(herbarium) - not in ELC
<i>B. carinatus</i> = <i>B. marginatus</i>	
<i>B. ciliatus</i>	
<i>B. inermis</i>	non-native plant checklist; not in ELC
<i>B. inermis</i> ssp. <i>inermis</i>	
<i>B. inermis</i> ssp. <i>pumpellianus</i>	(Hogg 1993)

<i>B. pumellianus</i>	(herbarium) - not in ELC
<i>B. ? pumellianus</i>	(herbarium) - not in ELC
<i>B. tectorum</i>	non-native plant checklist
<i>B. vulgaris</i>	
<i>Calamagrostis canadensis</i>	(Hogg 1993)
<i>C. inexpansa</i>	
<i>C. montanensis</i>	(Park Memo Oct. 28/86)
<i>C. neglecta</i>	(herbarium) - not in ELC
<i>C. purpurascens</i>	(Hogg 1993)
<i>C. rubescens</i>	
<i>Cinna latifolia</i>	
<i>Danthonia californica</i> = <i>D. intermedia</i>	(Hogg 1993)
<i>D. spicata</i>	- not in ELC
<i>Deschampsia atropurpurea</i>	(herbarium) - not in ELC
<i>D. cespitosa</i>	(Hogg 1993)
<i>D. cespitosa</i> var. <i>cespitosa</i>	(herbarium) - not in ELC
<i>Elymus glaucus</i>	
<i>E. glaucus</i> var. <i>glaucus</i>	(herbarium) - not in ELC
<i>E. innovatus</i>	(Hogg 1993)
<i>E. ? macounii</i>	(herbarium) - not in ELC
<i>E. ? virginicus</i>	(herbarium) - not in ELC
<i>Festuca altaica</i> = <i>F. campestris</i>	(herbarium) - not in ELC
<i>F. bafinensis</i>	
<i>F. brachyphylla</i>	
<i>F. campestris</i>	(herbarium) - not in ELC
<i>F. occidentalis</i>	
<i>F. ovina</i> var. <i>brachyphylla</i>	
<i>F. rubra</i>	(Hogg 1993, non-native plant checklist)
<i>F. saximontana</i>	(Hogg 1993) - not in ELC
<i>F. saximontana</i> var. <i>purpuriana</i>	(herbarium) - not in ELC
<i>F. scabrella</i> = <i>F. altaica</i>	
<i>F. ? viridula</i>	(herbarium) - not in ELC
<i>Glyceria elata</i>	
<i>G. pulchella</i>	
<i>G. striata</i>	(Hogg 1993)
<i>Hierochloe odorata</i>	
<i>Hordeum jubatum</i>	(Hogg 1993)
<i>H. jubatum</i> var. <i>jubatum</i>	(herbarium) - not in ELC
<i>H. vulgare</i>	non-native plant checklist; not in ELC
<i>Koeleria macrantha</i> = <i>K. cristata</i>	
<i>Melica smithii</i>	
<i>Muhlenbergia glomerata</i>	(Park Memo Oct. 28/86)
<i>Oryzopsis asperifolia</i>	(Hogg 1993)
<i>O. hymenoides</i>	
<i>O. micrantha</i>	(Park Memo Oct. 28/86)
<i>O. pungens</i>	
<i>Phleum commutatum</i> = <i>P. alpinum</i>	(Hogg 1993)
<i>P. pratense</i>	(Hogg 1993, non-native plant checklist)
<i>Poa alpina</i>	(Hogg 1993)
<i>P. ? alpina</i>	(herbarium) - not in ELC
<i>P. annua</i>	(Hogg 1993, non-native plant checklist)
<i>P. arctica</i>	
<i>P. canbyi</i>	
<i>P. compressa</i>	(Hogg 1993, non-native plant checklist)
<i>P. ? cusickii</i>	(herbarium) - not in ELC
<i>P. epilis</i>	
<i>P. ? epilis</i>	(herbarium) - not in ELC
<i>P. grayana</i>	
<i>P. interior</i>	
<i>P. ? interior</i>	(herbarium) - not in ELC
<i>P. leptocoma</i>	
<i>P. ? leptocoma</i>	(herbarium) - not in ELC
<i>P. nervosa</i>	
<i>P. palustris</i>	(Hogg 1993)

<i>P. pattersonii</i>	(herbarium) - not in ELC
<i>P. ? pattersonii</i>	(herbarium) - not in ELC
<i>P. pratensis</i>	(Hogg 1993, non-native plant checklist)
<i>P. rupicola</i> = <i>P. glauca</i>	
<i>P. sandbergii</i>	
<i>P. stenantha</i>	
<i>Schizachne purpurascens</i>	
<i>Setaria viridis</i>	non-native plant checklist; not in ELC
<i>Stipa columbiana</i>	
<i>S. comata</i>	
<i>S. richardsonii</i>	
<i>Trichophorum pumilum</i>	(Park Memo Oct. 28/86) - not in ELC
<i>Trisetum spicatum</i>	(Hogg 1993)
<i>T. ? spicatum</i>	(herbarium) - not in ELC
<i>Vahlodea atropurpurea</i> = <i>Deschampsia atropurpurea</i>	
<i>V. ? atropurpurea</i>	(herbarium) - not in ELC
CYPERACEAE	
<i>Carex aenea</i>	
<i>C. albo-nigra</i>	
<i>C. aquatilis</i>	
<i>C. atherodes</i>	
<i>C. atrosquama</i>	(Hogg 1993)
<i>C. aurea</i> = <i>C. garberi</i>	
<i>C. ? aurea</i>	(herbarium) - not in ELC
<i>C. bebbii</i>	
<i>C. brunnescens</i>	
<i>C. buxbaumii</i>	
<i>C. capillaris</i>	(Hogg 1993)
<i>C. ? capitata</i>	(herbarium) - not in ELC
<i>C. concinna</i>	(Hogg 1993)
<i>C. concinnoidea</i>	
<i>C. crassii</i>	(Park Memo Oct. 28/86)
<i>C. deweyana</i>	
<i>C. diandra</i>	
<i>C. disperma</i>	(Hogg 1993)
<i>C. ? drummondiana</i>	(herbarium) - not in ELC
<i>C. eburnea</i>	
<i>C. flava</i>	
<i>C. garberi</i> var. <i>bifaria</i>	
<i>C. gynocrates</i>	(Hogg 1993)
<i>C. haydeniana</i>	
<i>C. hoodii</i>	
<i>C. interior</i>	
<i>C. lasiocarpa</i>	
<i>C. leptalea</i>	
<i>C. limosa</i>	
<i>C. livida</i>	
<i>C. macloviana</i>	(Hogg 1993)
<i>C. ? media</i>	(herbarium) - not in ELC
<i>C. microglochin</i>	(Hogg 1993, Park Memo Oct. 28/86)
<i>C. microptera</i>	(Hogg 1993) - not in ELC
<i>C. nardina</i>	
<i>C. nigricans</i>	
<i>C. norvegica</i>	(Hogg 1993)
<i>C. pachystachya</i>	
<i>C. paupercula</i>	
<i>C. petasata</i>	
<i>C. phaeocephala</i>	
<i>C. ? phaeocephala</i>	(herbarium) - not in ELC
<i>C. physocarpa</i> = <i>C. saxatilis</i>	
<i>C. platylepis</i>	
<i>C. praticola</i>	

<i>C. pyrenaica</i>	
<i>C. raymondii</i>	
<i>C. retrorsa</i>	(herbarium) - not in ELC
<i>C. rossii</i>	
<i>C. rostrata</i>	
<i>C. sartwellii</i>	(Park Memo Oct. 28/86)
<i>C. scirpoidea</i>	(Hogg 1993)
<i>C. scoparia</i>	
<i>C. spectabilis</i>	
<i>C. sychnocephala</i>	(B.C. CDC) - not in ELC
<i>C. vaginata</i>	
<i>C. viridula</i> = <i>C. oederi</i>	
<i>Eleocharis acicularis</i>	
<i>E. palustris</i>	
<i>E. quinqueflora</i>	(Park Memo Oct. 28/86)
<i>Eriophorum chamissonis</i>	
<i>E. polystachion</i> = <i>E. angustifolium</i>	
<i>E. viridi-carinatum</i>	
<i>Kobresia myosuroides</i> = <i>K. bellardii</i>	
<i>K. simpliciuscula</i>	(Hogg 1993)
<i>Scirpus acutus</i>	
<i>S. cespitosus</i>	
<i>S. pumilus</i>	
<i>S. validus</i>	

JUNCACEAE

<i>Juncus alpinus</i> = <i>J. alpinoarticulatus</i>	
<i>J. balticus</i>	(Hogg 1993)
<i>J. drummondii</i>	(Hogg 1993)
<i>J. hallii</i>	
<i>J. longistylis</i>	(Hogg 1993) - not in ELC
<i>J. nodosus</i>	
<i>J. parryi</i>	
<i>J. saximontanus</i> = <i>J. ensifolius</i> var. <i>montanus</i>	
<i>J. tenuis</i> = <i>J. dudleyi</i>	
<i>J. triglumis</i> = <i>J. albescens</i>	(Park Memo Oct. 28/86)
<i>Luzula hitchcockii</i> = <i>L. glabrata</i>	
<i>L. parviflora</i>	
<i>L. piperi</i> = <i>L. wahlenbergii</i>	
<i>L. spadicea</i>	(herbarium) - not in ELC
<i>L. spicata</i>	

LILIACEAE

<i>Allium cernuum</i>	
<i>A. schoenoprasum</i> var. <i>sibiricum</i>	
<i>Calochortus apiculatus</i>	(herbarium) - not in ELC
<i>C. macrocarpum</i>	
<i>Clintonia uniflora</i>	
<i>Disporum trachycarpum</i>	
<i>Erythronium grandiflorum</i>	
<i>Lilium philadelphicum</i>	(Park Memo Oct. 28/86)
<i>L. philadelphicum</i> var. <i>andinum</i>	
<i>Smilacina racemosa</i>	(herbarium) - not in ELC
<i>S. racemosa</i> var. <i>amplexicaulis</i>	
<i>S. stellata</i>	
<i>Stenanthium occidentale</i>	(Hogg 1993)
<i>Streptopus amplexifolius</i>	
<i>S. roseus</i>	(herbarium) - not in ELC
<i>S. roseus</i> var. <i>curvipes</i>	
<i>Tofieldia glutinosa</i>	
<i>T. pusilla</i>	(Hogg 1993)
<i>Veratrum eschscholtzii</i> = <i>V. viride</i>	
<i>Zigadenus elegans</i>	(Hogg 1993)
<i>Z. venenosus</i> var. <i>gramineus</i> = <i>Z. gramineus</i>	

IRIDACEAE

Sisyrinchium montanum
S. sarmentosum = *S. septentrionale*

(Hogg 1993)

ORCHIDACEAE

Calypso bulbosa

Coeloglossum viride = *Habenaria viridis* var. *bracteata*

Corallorhiza maculata

C. striata

C. trifida

Cypripedium montanum

(Park Memo Oct. 28/86)

C. passerinum

(Park Memo Oct. 28/86)

Epipactis gigantea

(extirpated) (Park Memo Jan. 27/87)

Goodyera oblongifolia

G. repens

Listera borealis

(Hogg 1993)

L. cordata

Orchis rotundifolia

Platanthera dilatata = *Habenaria dilatata*

P. dilatata = H. ? *dilatata*

(herbarium) - not in ELC

P. dilatata var. *leucostachys*

(herbarium) - not in ELC

P. hyperborea = *Habenaria hyperborea*

(Hogg 1993)

P. obtusata = *Habenaria obtusata*

P. orbiculata = *Habenaria orbiculata*

P. saccata = *Habenaria saccata*

P. unalascensis = *Habenaria unalascensis*

Spiranthes romanzoffiana

SALICACEAE

Populus X brayshawii (Populus angustifolia X
P. balsamifera)

P. balsamifera

(Hogg 1993)

P. balsamifera ssp. *trichocarpa*

P. tremuloides

(Hogg 1993)

Salix arctica

S. barclayi

S. barrattiana

S. bebbiana

S. brachycarpa

S. brachycarpa ssp. *brachycarpa*

(herbarium) - not in ELC

S. candida

S. commutata

S. drummondiana

S. farriae

(Hogg 1993)

S. glauca

(Hogg 1993)

S. melanopsis = *S. interior*

S. myrtillifolia

S. nivalis = *S. reticulata* var. *nivalis*

(Hogg 1993)

S. prolixa = *S. mackenziana*

S. pseudomonticola

S. scouleriana

(Hogg 1993)

S. ?scouleriana or *glauca*

(herbarium) - not in ELC

S. vestita

(Hogg 1993)

BETULACEAE

Alnus crispa = *A. viridis* ssp. *crispa*

A. crispa ssp. *sinuata* = *A. viridis* ssp. *sinuata*

(herbarium) - not in ELC

Betula glandulosa

(Hogg 1993)

B. occidentalis

(Hogg 1993)

B. papyrifera

B. pumila var. *glandulifera*

B. X sargentii = *B. glandulosa* X *B. pumila*

CANNABINACEAE*Humulus lupulus*

non-native plant checklist; not in ELC

URTICACEAE*Urtica dioica* var. or ssp. *gracilis* = *U. gracilis*
U. dioica var. *procera*

(herbarium) - not in ELC

SANTALACEAE*Comandra pallida* = *C. umbellatum*
Geocaulon lividum = *Comandra livida***POLYGONACEAE***Eriogonum umbellatum* = *E. subalpinum*
Oxyria digyna
Polygonum amphibium
P. amphibium var. *stipulaceum*
P. arenastrum
P. ? austinae
P. viviparum
Rumex crispus

(herbarium) - not in ELC

non-native plant checklist; not in ELC

(herbarium) - not in ELC

(Hogg 1993)

non-native plant checklist; not in ELC

CHENOPodiACEAE*Chenopodium album*
C. capitatum
C. fremontii

(Hogg 1993, non-native plant checklist)

(Hogg 1993)

PORTULACACEAE*Claytonia lanceolata***CARYOPHYLLACEAE***Arenaria capillaris*
A. capillaris var. *americana*
A. lateriflora = *Moehringia lateriflora*
A. longipedunculata
A. stricta var. *dawsonensis*
Cerastium arvense
C. beeringianum
C. vulgatum
Lychnis apetala ssp. *attenuata*
L. chalcedonica
Minuartia austromontana = *A. rossii*
A. biflora = *Arenaria sajanensis*
M. biflora = *A. ? sajanensis*
M. dawsonensis = *A. dawsonensis*
M. elegans = *A. rossii*
M. nuttallii = *A. nuttallii*
M. obtusiloba = *Arenaria obtusiloba*
M. rubella = *Arenaria rubella*
Sagina ? nodosa
Silene acaulis
S. acaulis var. *excapa*
S. drummondii = *Lychnis drummondii*
S. menziesii
S. parryi
S. scouleri
S. uralensis = *Lychnis apetala*
Stellaria calycantha
S. longifolia
S. longipes
S. ? longipes

(herbarium) - not in ELC

(Hogg 1993) - not in ELC

(herbarium) - not in ELC

(Hogg 1993, non-native plant checklist)

(herbarium) - not in ELC

non-native plant checklist; not in ELC

(herbarium) - not in ELC

(herbarium) - not in ELC

(Hogg 1993, Park Memo Oct. 28/86)

(Park Memo Oct. 28/86)

(herbarium) - not in ELC

(herbarium) - not in ELC

(Park Memo Oct. 28/86)

(herbarium) - not in ELC

(Hogg 1993)

(herbarium) - not in ELC

RANUNCULACEAE*Actaea rubra*
Anemone drummondii = *A. lithophila*

(herbarium) - not in ELC

<i>A. multifida</i>	
<i>A. occidentalis</i>	
<i>A. parviflora</i>	(Hogg 1993)
<i>A. patens</i>	
<i>A. riparia</i>	(herbarium) - not in ELC
<i>Aquilegia brevistyla</i>	
<i>A. flavescens</i>	
<i>A. flavescens</i> var. <i>miniata</i>	(herbarium) - not in ELC
<i>Caltha leptosepala</i>	
<i>Clematis occidentalis</i> = <i>C. verticillaris</i>	
var. <i>columbiana</i>	
<i>C. tangutica</i>	non-native plant checklist
<i>Delphinium bicolor</i>	(Park Memo Oct. 28/86)
<i>D. glaucum</i>	
<i>D. nuttallianum</i>	
<i>Ranunculus abortivus</i>	
<i>R. acris</i>	non-native plant checklist
<i>R. cymbalaria</i>	
<i>R. eschscholtzii</i>	
<i>R. ? eschscholtzii</i>	(herbarium) - not in ELC
<i>R. inamoenum</i>	(Park Memo Oct. 28/86)
<i>R. occidentalis</i>	
<i>R. pedatifidus</i>	
<i>R. pygmaeus</i>	
<i>R. reptans</i> = <i>R. flammula</i>	(Park Memo Oct. 28/86)
<i>R. scleratus</i>	(Park Memo Oct. 28/86)
<i>R. verecundus</i>	
<i>Thalictrum occidentale</i>	
<i>T. occidentale</i> var. <i>palousense</i>	(herbarium) - not in ELC
<i>T. venulosum</i>	
<i>Trollius albiflorus</i>	

BERBERIDACEAE

Berberis repens

FUMARIACEAE

Corydalis aurea

BRASSICACEAE (= CRUCIFERAE)

Arabis divaricarpa

A. drummondii

A. glabra

non-native plant checklist

A. hirsuta

A. holboellii

(herbarium) - not in ELC

A. holboellii var. *retrofracta*

A. lemmonii

A. lyallii

A. lyrata

A. nuttallii

(Park Memo Oct. 28/86)

A. ? nuttallii

(herbarium) - not in ELC

Brassica campestris

non-native plant checklist

Braya humilis

B. purpureascens

(B.C. CDC) - not in ELC

Capsella bursa-pastoris

(Hogg 1993, non-native plant checklist)

Cardamine breweri

C. umbellata = *C. oligosperma*

non-native plant checklist

Descurainia pinnata

D. richardsonii

D. sophia

non-native plant checklist

Draba albertina

D. aurea

D. borealis

D. cana

D. crassifolia

<i>D. incerta</i>	
<i>D. lonchocarpa</i>	(Hogg 1993) - not in ELC
<i>D. lonchocarpa</i> var. <i>lonchocarpa</i>	
<i>D. oligosperma</i>	
<i>D. ? oligosperma</i>	(herbarium) - not in ELC
<i>D. paysonii</i>	
<i>D. paysonii</i> var. <i>treleasii</i>	(herbarium) - not in ELC
<i>D. porsildii</i>	(Park Memo Oct. 28/86)
<i>D. praealta</i>	
<i>D. stenoloba</i>	
<i>Erucastrum gallicum</i>	non-native plant checklist
<i>Erysimum asperum</i>	
<i>E. cheiranthoides</i>	non-native plant checklist
<i>E. inconspicuum</i>	
<i>Lepidium campestre</i>	
<i>L. densiflorum</i>	(non-native plant checklist) - not in ELC
<i>L. ramosissimum</i>	
<i>Lesquerella douglasii</i>	
<i>Physaria didymocarpa</i>	
<i>Rorippa palustris</i> = <i>R. islandica</i>	
<i>Sisymbrium altissimum</i>	(Hogg 1993, non-native plant checklist)
<i>Thlaspi arvense</i>	(Hogg 1993, non-native plant checklist) - not in ELC

DROSERACEAE

Drosera anglica

CRASSULACEAE

Sedum lanceolatum
S. roseus

SAXIFRAGACEAE

<i>Heuchera cylindrica</i>	
<i>H. cylindrica</i> var. <i>septentrionalis</i>	(herbarium) - not in ELC
<i>Leptarrhena pyrolifolia</i>	
<i>Lithophragma parviflorum</i>	
<i>Mitella breweri</i>	
<i>M. nuda</i>	(Hogg 1993)
<i>M. pentandra</i>	
<i>M. trifida</i>	
<i>Parnassia fimbriata</i>	(Hogg 1993)
<i>P. palustris</i>	
<i>P. palustris</i> var. <i>neogaea</i>	(herbarium) - not in ELC
<i>P. parviflora</i>	
<i>Saxifraga adscendens</i>	
<i>S. aizoides</i>	(Hogg 1993)
<i>S. bronchialis</i>	
<i>S. caespitosa</i>	
<i>S. cernua</i>	
<i>S. debilis</i> = <i>S. rivularis</i>	
<i>S. debilis</i> = <i>S. hyperborea</i>	(herbarium) - not in ELC
<i>S. ferruginea</i>	
<i>S. lyallii</i>	
<i>S. occidentalis</i>	
<i>S. oppositifolia</i>	(Hogg 1993)
<i>S. rhomboidea</i>	
<i>Tiarella trifoliata</i>	
<i>T. trifoliata</i> var. <i>unifoliata</i> = <i>T. unifoliata</i>	(herbarium) - not in ELC

GROSSULARIACEAE

<i>Ribes hirtellum</i>	
<i>R. hudsonianum</i>	
<i>R. lacustre</i>	
<i>R. laxiflorum</i>	(Hogg 1993)
<i>R. oxyacanthoides</i>	

R. viscosissimum

ROSACEAE

<i>Amelanchier alnifolia</i>	(Hogg 1993)
<i>Dryas drummondii</i>	(Hogg 1993)
<i>D. octopetala</i> var. <i>hookeriana</i> = <i>D. hookeriana</i>	(Hogg 1993)
<i>Fragaria virginiana</i>	(Hogg 1993) - not in ELC
<i>F. virginiana</i> var. or ssp. <i>glaucia</i>	
<i>F. virginiana</i> var. <i>platypetala</i>	(herbarium) - not in ELC
<i>Geum aleppicum</i>	(Hogg 1993)
<i>G. macrophyllum</i>	(herbarium) - not in ELC
<i>G. macrophyllum</i> var. <i>perincisum</i>	
<i>G. triflorum</i>	
<i>Luetkea pectinata</i>	
<i>Potentilla anserina</i>	
<i>P. diversifolia</i>	
<i>P. fruticosa</i>	(Hogg 1993)
<i>P. gracilis</i>	
<i>P. hyparctica</i>	(Park Memo Oct. 28/86)
<i>P. ledebouriana</i> = <i>P. uniflora</i>	(herbarium) - not in ELC
<i>P. nivea</i>	
<i>P. norvegica</i>	
<i>P. palustris</i>	
<i>P. pensylvanica</i>	
<i>Prunus pensylvanica</i>	(herbarium) - not in ELC
<i>P. virginiana</i>	
<i>Rosa acicularis</i>	(Hogg 1993)
<i>R. woodsii</i>	(Hogg 1993)
<i>Rubus acaulis</i> = <i>R. arcticus</i> ssp. <i>acaulis</i> ; <i>R. arcticus</i>	
<i>R. idaeus</i> = <i>R. strigosus</i>	(Hogg 1993)
<i>R. ? idaeus</i>	(herbarium) - not in ELC
<i>R. parviflorus</i>	
<i>R. pedatus</i>	
<i>R. pubescens</i>	
<i>Sibbaldia procumbens</i>	
<i>Sorbus scopulina</i>	
<i>Spiraea betulifolia</i> var. <i>lucida</i> = <i>S. lucida</i>	(Hogg 1993)

FABACEAE (= LEGUMINOSAE)

<i>Astragalus aboriginum</i>	(Park Memo Oct. 28/86)
<i>A. alpinus</i>	(Hogg 1993)
<i>A. americanus</i>	
<i>A. bourgovii</i>	(Park Memo Oct. 28/86)
<i>A. dasystachys</i> = <i>A. agrestis</i>	
<i>A. decumbens</i> = <i>A. miser</i> ; <i>A. m.</i> var. <i>serotinus</i>	
<i>A. ? decumbens</i>	(herbarium) - not in ELC
<i>A. eucosmus</i>	
<i>A. lotiflorus</i>	(Park Memo Oct. 28/86)
<i>A. robbinsii</i> = <i>A. occidentalis</i> ; <i>A. r.</i> var. <i>occidentalis</i>	(Park Memo Oct. 28/86, herbarium)
<i>A. ? occidentalis</i>	(herbarium) - not in ELC
<i>Hedysarum boreale</i>	
<i>H. sulphurescens</i>	(Hogg 1993)
<i>Lathyrus ochroleucus</i>	(Hogg 1993)
<i>Lupinus polyphyllus</i>	
<i>Medicago lupulina</i>	(Hogg 1993, non-native plant checklist)
<i>M. sativa</i>	(Hogg 1993, non-native plant checklist)
<i>Melilotus alba</i>	(Hogg 1993, non-native plant checklist)
<i>M. officinalis</i>	(Hogg 1993, non-native plant checklist)
<i>Oxytropis campestris</i> = <i>O. monticola</i>	(Hogg 1993)
<i>O. deflexa</i>	
<i>O. leucantha</i>	
<i>O. podocarpa</i>	(Park Memo Oct. 28/86)
<i>O. sericea</i>	
<i>O. sericea</i> var. <i>spicata</i>	(herbarium) - not in ELC

<i>O. viscosa</i>	(herbarium) - not in ELC
<i>Thermopsis rhombifolia</i>	(Park Memo Oct. 28/86)
<i>Trifolium agrarium</i> = <i>T. aureum</i>	non-native plant checklist
<i>T. hybridum</i>	(Hogg 1993, non-native plant checklist)
<i>T. pratense</i>	(Hogg 1993, non-native plant checklist)
<i>T. repens</i>	(Hogg 1993, non-native plant checklist) - not in ELC
<i>Vicia americana</i>	
<i>V. cracca</i>	(Hogg 1993, non-native plant checklist)
GERANIACEAE	
<i>Geranium bicknellii</i>	
<i>G. richardsonii</i>	
<i>G. viscosissimum</i>	
LINACEAE	
<i>Linum lewisii</i>	
EUPHORBIACEAE	
<i>Euphorbia esula</i>	non-native plant checklist; not in ELC
EMPETRACEAE	
<i>Empetrum nigrum</i>	
ANACARDIACEAE	
<i>Rhus radicans</i>	(Park Memo Oct. 28/86) - not in ELC
CELASTRACEAE	
<i>Pachystima myrsinoides</i>	
ACERACEAE	
<i>Acer glabrum</i> = <i>A. g.</i> var. <i>douglasii</i> = <i>A. douglasii</i>	
RHAMNACEAE	
<i>Ceanothus sanguineus</i>	
<i>C. velutinus</i>	
HYPERICACEAE	
<i>Hypericum perforatum</i>	non-native plant checklist; not in ELC
VIOLACEAE	
<i>Viola adunca</i>	
<i>V. canadensis</i> var. <i>rugulosa</i> = <i>V. rugulosa</i>	
<i>V. glabella</i>	
<i>V. nephrophylla</i>	
<i>V. orbiculata</i>	
<i>V. palustris</i>	
<i>V. ? palustris</i>	(herbarium) - not in ELC
<i>V. renifolia</i>	(Hogg 1993)
CACTACEAE	
<i>Opuntia fragilis</i>	(unconfirmed - Park Memo Oct. 28/86) - not in ELC
<i>O. polyacantha</i>	(unconfirmed)
ELAEAGNACEAE	
<i>Elaeagnus commutata</i>	
<i>Shepherdia canadensis</i>	(Hogg 1993)
ONAGRACEAE	
<i>Circaeaa alpina</i>	
<i>Epilobium anagallidifolium</i> = <i>E. alpinum</i> var. <i>alpinum</i>	
<i>E. alpinum</i>	(herbarium) - not in ELC
<i>E. alpinum</i> var. <i>clavatum</i> = <i>E. clavatum</i>	(Hogg 1993)
<i>E. alpinum</i> var. <i>lactiflorum</i> = <i>E. lactiflorum</i>	
<i>E. alpinum</i> var. <i>nutans</i> = <i>E. hornemannii</i>	

<i>E. angustifolium</i>	(Hogg 1993)
<i>E. glaberrimum</i>	(Hogg 1993)
<i>E. glaberrimum</i> var. <i>glaberrimum</i>	(herbarium) - not in ELC
<i>E. glandulosum</i> = <i>E. ciliatum</i>	(Hogg 1993)
<i>E. latifolium</i>	
<i>E. palustre</i>	
<i>E. ? palustre</i>	(herbarium) - not in ELC
<i>E. paniculatum</i>	
<i>E. watsonii</i> var. <i>occidentale</i>	

HALORAGIDACEAE

Myriophyllum exalbescens = *M. spicatum*

ARALIACEAE

Aralia nudicaulis
Opananax horridum

APIACEAE (= UMBELLIFERAE)

<i>Cicuta douglasii</i> = <i>C. maculata</i>	
<i>Heracleum lanatum</i>	
<i>Lomatium dissectum</i>	
<i>L. dissectum</i> var. <i>multifidum</i>	(herbarium) - not in ELC
<i>L. macrocarpum</i>	
<i>L. triternatum</i>	
<i>Osmorhiza chilensis</i>	
<i>O. chilensis</i> var. <i>purpurea</i>	(herbarium) - not in ELC
<i>O. depauperata</i>	
<i>O. purpurea</i>	
<i>Sanicula marilandica</i>	

CORNACEAE

<i>Cornus canadensis</i>	(Hogg 1993)
<i>C. stolonifera</i>	
<i>C. stolonifera</i> or <i>sericea</i> ?	(herbarium) - not in ELC

PYROLACEAE

<i>Chimaphila umbellata</i>	
<i>Moneses uniflora</i>	(Hogg 1993)
<i>Orthilia secunda</i> = <i>Pyrola secunda</i>	(Hogg 1993)
<i>Pyrola asarifolia</i>	(Hogg 1993)
<i>P. chlorantha</i> = <i>P. virens</i>	(Hogg 1993)
<i>P. elliptica</i>	(Park Memo Oct. 28/86)
<i>P. minor</i>	

ERICACEAE

<i>Arctostaphylos rubra</i> = <i>A. alpina</i> var. <i>rubra</i>	(Hogg 1993)
<i>A. uva-ursi</i>	(Hogg 1993)
<i>Cassiope mertensiana</i>	(Hogg 1993)
<i>C. tetragona</i>	(herbarium) - not in ELC
<i>C. tetragona</i> var. <i>saximontana</i>	(Hogg 1993)
<i>Gaultheria hispida</i>	(Hogg 1993)
<i>G. humifusa</i>	(Hogg 1993)
<i>G. ovatifolia</i>	(Park Memo Oct. 28/86)
<i>Kalmia polifolia</i> var. <i>microphylla</i> = <i>K. microphylla</i>	
<i>K. polifolia</i>	(herbarium) - not in ELC
<i>Ledum glandulosum</i>	(Hogg 1993)
<i>L. glandulosum</i> var. <i>glandulosum</i>	(herbarium) - not in ELC
<i>L. groenlandicum</i>	(Hogg 1993)
<i>Menziesia ferruginea</i> = <i>M. glabella</i> ; <i>M. f.</i> var. <i>glabella</i>	(Hogg 1993) - not in ELC
<i>Oxycoccus microcarpus</i>	
<i>Phillydotea empetriformis</i>	
<i>P. glanduliflora</i>	(Hogg 1993)
<i>X P. intermedia</i>	
<i>Rhododendron albiflorum</i>	(Hogg 1993)

<i>Vaccinium caespitosum</i>	
<i>V. membranaceum</i>	
<i>V. myrtilloides</i>	
<i>V. myrtillus</i>	(Hogg 1993, Park Memo Oct. 28/86)
<i>V. ovalifolium</i>	
<i>V. scoparium</i>	(Hogg 1993)
<i>V. vitis-idaea</i>	

PRIMULACEAE

<i>Androsace septentrionalis</i>	
<i>Dodecatheon conjugens</i>	
<i>D. conjugens</i> ssp. <i>viscidum</i>	(herbarium) - not in ELC
<i>D. pulchellum</i> = <i>D. radicatum</i>	
<i>Primula mistassinica</i>	(Park Memo Oct. 28/86)
<i>P. stricta</i>	(B.C. CDC) - not in ELC
<i>Pterospora andromeda</i>	- not in ELC; addition to master list in W.O.

GENTIANACEAE

<i>Gentianella amarella</i>	
<i>G. amarella</i> ssp. <i>acuta</i>	(herbarium) - not in ELC
<i>G. propinqua</i>	(Hogg 1993)
<i>Habenaria deflexa</i>	

MENYANTHACEAE

<i>Menyanthes trifoliata</i>	
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APOCYNACEAE

<i>Apocynum androsaemifolium</i>	
<i>A. androsaemifolium</i> var. <i>pumilum</i>	(herbarium) - not in ELC

POLEMONIACEAE

<i>Polemonium pulcherrimum</i>	
Unknown <i>Polemonium</i> ?	(herbarium) - not in ELC

HYDROPHYLACEAE

<i>Phacelia hastata</i> = <i>P. heterophylla</i>	
<i>P. ? leptosepala</i> or <i>heterophylla</i>	(herbarium) - not in ELC
<i>P. sericea</i>	
<i>Romanzoffia sitchensis</i>	

BORAGINACEAE

<i>Cynoglossum officinale</i>	non-native plant checklist
<i>Hackelia deflexa</i> = <i>H. americana</i>	(herbarium) - not in ELC
<i>H. floribunda</i>	(Park Memo Oct. 28/86)
<i>H. jessicae</i> = <i>H. micrantha</i>	
<i>H. ? jessicae</i>	(herbarium) - not in ELC
<i>Lappula echinata</i> = <i>L. squarrosa</i>	(Hogg 1993, non-native plant checklist)
<i>Lithospermum incisum</i>	(Park Memo Oct. 28/86)
<i>L. ruderale</i>	
<i>Mertensia longiflora</i>	
<i>Myosotis alpestris</i>	
<i>M. sylvatica</i> var. <i>alpestris</i>	(herbarium) - not in ELC

LABIATAE

<i>Galeopsis tetrahit</i>	(Hogg 1993, non-native plant checklist) - not in ELC
<i>Lamium amplexicaule</i>	(Hogg 1993) - not in ELC
<i>Mentha arvensis</i>	
<i>Nepeta cataria</i>	non-native plant checklist; not in ELC
<i>Prunella vulgaris</i>	(Hogg 1993)
Unknown <i>Labiatae</i>	(herbarium) - not in ELC

SCROPHULARIACEAE

<i>Castilleja cervina</i>	(Park Memo Oct. 28/86)
<i>C. hispida</i>	

<i>S. missouriensis</i>	
<i>S. ? missouriensis</i>	(herbarium) - not in ELC
<i>S. multiradiata</i>	(Hogg 1993)
<i>S. nemoralis</i>	
<i>S. rigida</i> var. <i>humilis</i>	
<i>S. spathulata</i> var. <i>neomexicana</i>	
<i>S. spathulata</i> var. <i>nana</i> ; <i>S. s.</i> = <i>S. decumbens</i>	
<i>Sonchus arvensis</i>	non-native plant checklist
<i>S. uliginosus</i>	non-native plant checklist
<i>S. ? uliginosus</i>	(herbarium) - not in ELC
<i>Stephanomeria tenuifolia</i> = <i>S. runcinata</i>	
<i>Tanacetum vulgare</i>	non-native plant checklist; not in ELC
<i>Taraxacum cf. ceratophorum</i> = <i>T. lyratum</i>	(Hogg 1993)
<i>T. laevigatum</i>	
<i>T. ? lyratum</i>	(herbarium) - not in ELC
<i>T. officinale</i>	(Hogg 1993, non-native plant checklist)
<i>T. ? officinale</i>	(herbarium) - not in ELC
<i>Townsendia hookeri</i>	(Park Memo Oct. 28/86)
<i>Tragopogon dubius</i>	non-native plant checklist

**APPENDIX III. HERBARIUM COLLECTION FOR
MOUNT REVELSTOKE AND GLACIER NATIONAL PARKS**
(as of December 1995)

[^] recorded on old printout of herbarium contents; no specimens found

	Revelstoke NP	Glacier NP	Either Mt. Rev. or Glacier NP
OPHIOGLOSSACEAE			
<i>Botrychium lunaria</i>			X
<i>B. multifidum</i> var. <i>intermedium</i>		X	
<i>B. virginianum</i>	X		
POLYPODIACEAE			
<i>Adiantum pedatum</i> = <i>A. p.</i> var. <i>aleuticum</i>	XXXXXX	X	
<i>Aspidotis densa</i> = <i>Cheilanthes siliquosa</i>	X		
<i>Asplenium trichomanes</i>	XX		
<i>Athyrium distentifolium</i> = <i>A. alpestre</i>	X		
<i>A. filix-femina</i>	XXX	XXXX	
<i>Blechnum spicant</i>	X		
<i>Cryptogramma crispa</i>	XXX	X	
<i>C. crispa</i> ssp. <i>acrostichoides</i>	X		X
<i>C. stelleri</i>		X	
<i>Cystopteris fragilis</i>		X	
<i>C. fragilis</i> var. <i>fragilis</i>	X		
<i>Dryopteris assimilis</i>	X	XX	
<i>D. austriaca</i> = <i>D. dilatata</i>	X	X	
<i>D. filix-mas</i>	X	X	X
<i>Gymnocarpium dryopteris</i>	XXX	XX	
<i>Polypodium vulgare</i> var. <i>vulgare</i> = <i>P. hesperium</i>	XX		
<i>P. hesperium</i> = <i>P. vulgare</i> var. <i>columbianum</i>	X		
<i>Polystichum lonchitis</i>		XXXXX	
<i>Pteridium aquilinum</i> = <i>P. a.</i> var. <i>pubescens</i>	XXX	X	
<i>Thelypteris phragopteris</i> = <i>Dryopteris phragopteris</i>	XX		
<i>Woodsia scopulina</i>	XXX		
EQUISETACEAE			
<i>Equisetum arvense</i>	X	XX	
<i>E. fluviatile</i>	XXX	XX	
<i>E. pratense</i>		X	
<i>E. variegatum</i>		XXX	
LYCOPODIACEAE			
<i>Lycopodium alpinum</i>	XX	X	
<i>L. annotinum</i>	X	XX	XX
<i>L. complanatum</i>	XXX	XX	
<i>L. obscurum</i>	XX		
<i>L. sitchense</i>	XXX		
CUPRESSACEAE			
<i>Juniperus communis</i> var. <i>montana</i>	X		
<i>J. horizontalis</i>	X		
<i>Thuja plicata</i>	XX		X
PINACEAE			
<i>Abies lasiocarpa</i>	X	XXX	
<i>Picea engelmannii</i>	XX		
<i>P. engelmannii</i> X <i>P. glauca</i>		X	
<i>Pinus albicaulis</i>	X	XXX	
<i>P. contorta</i>	X		
<i>P. contorta</i> var. <i>latifolia</i>	X	X	
<i>P. monticola</i>	XXX	XX	
<i>Pseudotsuga menziesii</i>	XX	X	

<i>P. menziesii</i> var. <i>glaucia</i>	X		
<i>Tsuga heterophylla</i>	XX	XXX	
<i>T. mertensiana</i>	X	X	
TAXACEAE			
<i>Taxus brevifolia</i>	XX	XXX	
TYPHACEAE			
<i>Typha latifolia</i>	X		
SPARGANIACEAE			
<i>Sparganium angustifolium</i>	X		
JUNCAGINACEAE			
<i>Triglochin maritima</i>		XXX	
<i>T. palustris</i>		X	
GRAMINEAE			
<i>Agropyron</i> sp.		X	
<i>Agrostis alba</i>		X	
<i>A. borealis</i> = <i>A. mertensii</i>	XX		
<i>A. scabra</i> = <i>A. hyemalis</i>	X		
<i>A. stolonifera</i>	X		
<i>A. thurberiana</i>	XX		
<i>A. variabilis</i>	XX		
<i>Bromus carinatus</i> = <i>B. marginatus</i>		X	
<i>B. ciliatus</i>	X		
<i>B. sitchensis</i>	X		
<i>B. vulgaris</i>	X		
<i>Calamagrostis canadensis</i>	XX	X	
<i>C. inexpansa</i>	X	X	
<i>C. purpurascens</i>	X		
<i>C. rubescens</i>	X		
<i>Cinna latifolia</i>	XX	X	
<i>Dactylis glomerata</i>		X	
<i>Danthonia spicata</i>	XXX		
<i>Elymus glaucus</i>	XX	XXX	
<i>Festuca occidentalis</i> var. <i>occidentalis</i>	X		
<i>F. ovina</i> var. <i>brachyphylla</i>	XX		
<i>Glyceria elata</i>	X	X	
<i>G. grandis</i>	X		
<i>G. striata</i>	XX		
<i>Lolium perenne</i>	X		
<i>Melica subulata</i>		XX	
<i>Phleum commutatum</i> = <i>P. alpinum</i>	XX	XXXX	
<i>Poa alpina</i>	X	X	
<i>P. annua</i>	X		
<i>P. arctica</i>	X		
<i>P. cusickii</i>	X		
<i>P. epilis</i>	XX		
<i>P. gracillima</i>	X		
<i>P. grayana</i>	X		
<i>P. leptocoma</i>		X	
<i>P. nervosa</i>	X		
<i>P. palustris</i>	XX		
<i>P. pratensis</i>		X	
<i>Triisetum cernuum</i>	X		
<i>T. spicatum</i>	X	X	
<i>Vahlodea atropurpurea</i> = <i>Deschampsia atropurpurea</i>	XXXX	X	

CYPERACEAE

<i>Carex aperta</i>	X			
<i>C. aurea</i>	X	X		X
<i>C. bebbii</i>	X			
<i>C. brunnescens</i>	X		X	
<i>C. ? brunnescens</i>			X	
<i>C. interior</i>			X	
<i>C. lenticularis</i>	X		X	
<i>C. macrochaeta</i>	X			
<i>C. mertensii</i>	XX		XX	
<i>C. microptera</i>	X			
<i>C. nigricans</i>	X			
<i>C. ? nigricans</i>	X		X	
<i>C. pachystachya</i>	XX		X	
<i>C. phaeocephala</i>	X		X	
<i>C. ? phaeocephala</i>	X			
<i>C. praticola</i> ^A	?		?	
<i>C. ? praticola</i>			X	
<i>C. pyrenaica</i>	X			
<i>C. rossii</i>	XX			
<i>C. rostrata</i>	X		X	
<i>C. scirpoidea</i>	X			
<i>C. spectabilis</i>	XXX		X	
<i>C. trisperma</i>	X			
<i>Eriophorum polystachion</i> = <i>E. angustifolium</i>	XX		XX	X
<i>E. charmignonis</i>	X		X	X
<i>E. gracile</i>	X			
<i>E. viridi-carinatum</i>			X	
<i>Scirpus acutus</i>			X	
<i>S. microcarpus</i>	X		X	
<i>Scirpus</i> sp.?			X	

ARACEAE

<i>Lysichitum americanum</i>	XX	XX	
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LEMNACEAE

<i>Lemna trisulca</i>	X		
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JUNCACEAE

<i>Juncus acuminatus</i>	X	X	
<i>J. alpinus</i>	X		X
<i>J. bolanderi</i>			X
<i>J. drummondii</i>	XX		X
<i>J. ? drummondii</i>			X
<i>J. ensifolius</i>	X		
<i>J. mertensianus</i>	XXX		XX
<i>J. parryi</i>	X		
<i>J. saximontanus</i> = <i>J. ensifolius</i> var. <i>montanus</i>	X		X
<i>J. tenuis</i>	X		
<i>Luzula arcuata</i>	X		
<i>L. hitchcockii</i> = <i>L. glabrata</i>			X
<i>L. parviflora</i>	X		XXXX
<i>L. piperi</i> = <i>L. glabrata</i>	X		
<i>L. piperi</i> = <i>L. wahlenbergii</i> ^A	?		?
<i>L. spicata</i>	XX		
<i>L. spadicea</i>	X		

LILIACEAE

<i>Camassia quamash</i> var. <i>maxima</i>		X	
<i>Clintonia uniflora</i>	XXXXXX		XX
<i>Disporum hookeri</i> = <i>D. h.</i> var. <i>oregano</i>	XXXXXX	X	
<i>Erythronium grandiflorum</i>	X		XXX
<i>Lilium columbianum</i> = <i>L. canadense</i> var. <i>parviflorum</i>	XXX		
<i>L. philadelphicum</i>	X		

<i>Smilacina racemosa</i> = <i>S. r.</i> var. <i>amplexicaulis</i>	XXXXX	X
<i>Streptopus amplexifolius</i>		XXX
<i>S. amplexifolius</i> var. <i>chalazatus</i>	X	
<i>S. roseus</i>	XX	XX
<i>S. streptopoides</i>	X	X
<i>Tofieldia glutinosa</i>	X	X
<i>Veratrum eschscholtzii</i> = <i>V. viride</i>	X	X
<i>Zigadenus elegans</i>		XXX

ORCHIDACEAE

<i>Coeloglossum viride</i> = <i>Habenaria viridis</i>	XX	
<i>Corallorrhiza maculata</i>	X	
<i>C. maculata?</i> ssp. <i>mertensiana</i> = <i>C. mertensiana</i>	X	
<i>C. mertensiana</i>	XX	XX
<i>C. striata</i>	X	
<i>C. trifida</i>	X	
<i>Goodyera oblongifolia</i>	XXX	X
<i>Listera convallarioides</i>	X	X
<i>L. cordata</i>	X	XXX
<i>Platanthera dilatata</i> = <i>Habenaria dilatata</i>	X	XXXXXX
<i>P. hyperborea</i> = <i>Habenaria hyperborea</i>	XX	
<i>P. orbiculata</i> = <i>Habenaria orbiculata</i>	XX	
<i>P. saccata</i> = <i>Habenaria saccata</i> = <i>P. stricta</i>	X	XXXXX
<i>P. unalascensis</i> = <i>Habenaria unalascensis</i>	X	

SALICACEAE

<i>P. trichocarpa</i> = <i>P. balsamifera</i> ssp. <i>trichocarpa</i>	X	XX
<i>P. tremuloides</i>	XX	
<i>Salix arctica</i>		XXXX
<i>S. barclayi</i>	X	XXX
<i>S. brachycarpa</i>		X
<i>S. commutata</i>		XXXXX
<i>S. drummondiana</i>		X
<i>S. glauca</i> = <i>S. g.</i> var. <i>villosa</i>	X	X
<i>S. lasiandra</i>		XX
<i>S. melanopsis</i> = <i>S. interior</i>		X
<i>S. nivalis</i> = <i>S. reticulata</i> var. <i>nivalis</i>	X	XXX
<i>S. prolixa</i> = <i>S. mackenziana</i>		X
<i>S. pseudomonticola</i> = <i>S. monticola</i>	XX	X
<i>S. scouleriana</i>	XX	X
<i>S. sitchensis</i>		XXXX
<i>S. vestita</i>		XX

BETULACEAE

<i>Alnus crispa</i> = <i>A. viridis</i>	X	
<i>A. sinuata</i> (= <i>A. sitchensis</i>)	X	XX
<i>A. incana</i> ? (= <i>A. tenuifolia</i>)^	?	?
<i>A. incana</i> ssp. <i>tenuifolia</i> = <i>A. rugosa</i>	X	X
<i>A. viridis</i> sinuata		X
<i>Betula papyrifera</i>	X	
<i>B. papyrifera</i> var. <i>commutata</i>	X	
<i>Corylus cornuta</i>	X	

URTICACEAE

<i>Urtica dioica</i> ssp. <i>gracilis</i>	X	X
<i>U. dioica</i> ssp. <i>gracilis</i> var. <i>lyallii</i>		XXX
<i>U. dioica</i> var. <i>lyallii</i>	X	

SANTALACEAE

<i>Comandra lividia</i> = <i>Geocaulon lividum</i>		XX
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ARISTOLOCHIACEAE

<i>Asarum caudatum</i>	XXX
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<i>P. palustris</i>		X	
<i>P. villosa</i>	X		
<i>Prunus emarginata</i>	X		
<i>P. pensylvanica</i>	X		
<i>P. virginiana</i>	X		
<i>Rosa gymnocarpa</i>	XXX		
<i>Rubus arcticus</i> ssp. <i>acaulis</i> = <i>R. arcticus</i>		X	
<i>R. idaeus</i> = <i>R. strigosus</i> = <i>R. i.</i> ssp. <i>sachalinensis</i>			
= <i>R. i.</i> ssp. <i>melanolasius</i>	X	XX	
<i>R. parviflorus</i>	XXX	XX	
<i>R. pedatus</i>	XX	XXX	
<i>R. procerus</i> = <i>R. discolor</i>	X		
<i>R. pubescens</i>		X	X
<i>Sibbaldia procumbens</i>	X	XXX	
<i>Sorbus scopulina</i>	XX	X	
<i>S. scopulina</i> var. <i>cascadensis</i>	X		
<i>S. sitchensis</i>	XX	XX	
<i>Spiraea betulifolia</i> = <i>S. b.</i> var. <i>lucida</i> = <i>S. lucida</i>	XX	XX	
<i>S. densiflora</i>	X	XXXX	
<i>S. douglasii</i>	XX		
FABACEAE (= LEGUMINOSAE)			
<i>Hedysarum boreale</i>	X		
<i>Lathyrus ochroleucus</i>	X		X
<i>L. ?ochroleucus</i>	X		
<i>Lupinus</i> sp.	X		
<i>L. latifolius</i>	X		
<i>L. polyphyllus</i> var. <i>burkei</i> = <i>L. burkei</i>	X		
<i>Medicago lupulina</i>		X	
<i>M. sativa</i>		XX	
<i>Melilotus alba</i>		X	
<i>M. officinalis</i>		X	
<i>Trifolium agrarium</i>	X		
<i>T. repens</i>		X	
<i>Vicia cracca</i>	X	X	
EMPETRACEAE			
<i>Empetrum nigrum</i>		XX	
CELASTRACEAE			
<i>Pachystima myrsinoides</i>		XXXXX	XX
ACERACEAE			
<i>Acer glabrum</i>	X		X
<i>A. glabrum</i> var. <i>douglasii</i>	X		
RHAMNACEAE			
<i>Ceanothus sanguineus</i>		XX	X
<i>C. velutinus</i>	XX		X
<i>Rhamnus purshiana</i>	X		
HYPERICACEAE			
<i>Hypericum formosum</i> ssp. or var. <i>scouleri</i>			X
<i>H. perforatum</i>	X		X
VIOLACEAE			
<i>Viola adunca</i>	XXX		X
<i>V. glabella</i>	XX		XXX
<i>V. orbiculata</i>	XXXXX		X
<i>V. renifolia</i> = <i>V. r.</i> var. <i>brainerdii</i>	X		XXX
<i>V. rugulosa</i> = <i>V. canadensis</i> var. <i>rugulosa</i>	X		X
ELAEAGNACEAE			
<i>Shepherdia canadensis</i>		XXXX	X

ONAGRACEAE

<i>Circaealpina</i>	XX	X	
<i>Epilobium alpinum</i>		XX	
<i>E. alpinum var. gracillimum</i>		XX	
<i>E. alpinum var. hornemannii</i>		X	
<i>E. alpinum var. lactiflorum = E. lactiflorum</i>	X	XXXXX	
<i>E. alpinum var. nutans = E. hornemannii</i>	X	X	
<i>E. alpinum var. ? nutans</i>		X	
<i>E. angustifolium</i>		XXXX	
<i>E. glandulosum = E. ciliatum</i>	X	XX	
<i>E. glandulosum var. adenocaulon</i>	X		
<i>E. latifolium</i>	XX	XXXX	
<i>E. luteum</i>	X	XXXX	
<i>E. palustre</i>		X	

ARALIACEAE

<i>Aralia nudicaulis</i>	XXXXX	XX	
<i>Oplopanax horridum</i>	XX	X	X

APIACEAE (= UMBELLIFERAE)

<i>Angelica genuflexa</i>	X		
<i>Cicuta douglasii</i>	X	X	X
<i>Heracleum lanatum</i>	X	XX	
<i>Ligusticum canbyi</i>	XX	XXX	
<i>Lomatium triternatum</i>		X	
<i>Lomatium or Ligusticum ?</i>	X		
<i>Osmorhiza chilensis</i>	XX	X	
<i>O. purpurea</i>		XXXXX	
<i>O. depauperata</i>		X	
<i>Zizia aptera</i>		X	

CORNACEAE

<i>Cornus canadensis</i>	XX	XXXX	X
<i>C. stolonifera</i>	X	XX	

PYROLACEAE

<i>Chimaphila umbellata = C. u. var. occidentalis</i>	XXXX	X	
<i>Moneses uniflora</i>		XX	
<i>Orthilia secunda = Pyrola secunda</i>	XXX	XXXXX	X
<i>Pyrola asarifolia</i>	XXX	XX	
<i>P. chlorantha = P. virens</i>	X	X	XX
<i>P. minor</i>	X	X	
<i>P. picta^</i>	?	?	

MONOTROPACEAE

<i>Monotropa hypopitys = Hypopitys monotropa</i>	XX	XX	
<i>M. uniflora</i>	X		X

ERICACEAE

<i>Arctostaphylos uva-ursi</i>	XXX	X	X
<i>Cassiope mertensiana</i>	XX	XXX	X
<i>C. tetragona</i>	X		
<i>Gaultheria humifusa</i>	XX		
<i>G. ovatifolia</i>	XXX	XX	
<i>Kalmia polifolia</i>	X	X	
<i>Ledum groenlandicum</i>		X	
<i>Menziesia ferruginea var. glabella = M. glabella</i>	X	XXXXXXX	
<i>Phyllodoce empetrifolia</i>	XX	XXX	
<i>P. glanduliflora</i>	XX	XX	
<i>Rhododendron albiflorum</i>	X	XXX	XX
<i>Vaccinium membranaceum</i>	XX	XXX	
<i>V. myrtilloides</i>	XXX		
<i>V. ovalifolium</i>	XXX	XX	

POLYGONACEAE

<i>Fagopyrum sagittatum</i> = <i>F. esculentum</i>		X
<i>Oxyria digyna</i>	XXX	X
<i>Polygonum austinae</i>	X	
<i>P. douglasii</i>	X	
<i>P. douglasii</i> var. <i>douglasii</i>		X
<i>P. douglasii</i> var. <i>latifolium</i>		XX
<i>P. engelmannii</i>	X	
<i>P. persicaria</i>	XX	
<i>P. viviparum</i>	X	XX
<i>Rumex acetosella</i>		XXX
<i>R. obtusifolius</i>		X

PORTULACACEAE

<i>Claytonia lanceolata</i>		XXXXX
<i>Montia parvifolia</i>	X	

CARYOPHYLLACEAE

<i>Arenaria capillaris</i>	XX	
<i>Cerastium beeringianum</i>	X	
<i>Dianthus deltoides</i>	XX	X
<i>Sagina saginoides</i>	X	
S. ? <i>saginoides</i>		X
<i>Silene acaulis</i>	X	XX
<i>S. alba</i> = <i>Lychnis alba</i>		X
<i>S. cserei</i>		X
<i>Spergularia rubra</i>		X
<i>Stellaria calycantha</i>	X	XX
<i>S. calycantha</i> var. <i>americana</i>		X
<i>S. calycantha</i> var. <i>sitchiana</i>	X	

RANUNCULACEAE

<i>Actaea rubra</i>		XXXXX
<i>A. rubra</i> f. <i>neglecta</i>		X
<i>A. rubra</i> var. <i>arguta</i>		X
<i>Anemone drummondii</i> = <i>A. lithophila</i>		X
<i>A. multifida</i>	XX	X
<i>A. occidentalis</i>	X	XXXXX
<i>A. parviflora</i>		XXXXX
<i>Aquilegia flavescens</i>	X	X
<i>A. formosa</i>		XX
<i>Caltha biflora</i>		X
<i>C. leptosepala</i> var. <i>biflora</i>	XXXX	XX
<i>C. leptosepala</i> var. <i>leptosepala</i>		X
<i>Delphinium</i> sp. (cultivar; non-native)		X
<i>D. bicolor</i>		X
<i>D. nuttallianum</i>	XXX	XX
<i>Ranunculus acris</i>	X	XX
<i>R. aquatilis</i>	X	
<i>R. eschscholtzii</i>	XX	XX
<i>R. gmelini</i>	XX	
<i>R. pensylvanicus</i>	X	
<i>R. uncinatus</i>	X	X
<i>R. uncinatus</i> var. <i>parviflorus</i>		XX
<i>Thalictrum occidentale</i>	X	XXXX
<i>Trollius laxus</i> = <i>T. l.</i> var. <i>albiflorus</i>	X	XXXXX

BERBERIDACEAE

<i>Berberis aquifolium</i> var. <i>repens</i> = <i>Mahonia aquifolium</i>	XXX
<i>B. nervosa</i> = <i>Mahonia nervosa</i>	X
<i>B. repens</i>	X

FUMARIACEAE

<i>Corydalis aurea</i>	X
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BRASSICACEAE (= CRUCIFERAE)

<i>Arabis divaricarpa</i>		X	
<i>A. drummondii</i>		X	
<i>A. hirsuta</i> ssp. <i>pycnocarpa</i>	X		
<i>A. lyallii</i>	X		
<i>A. lyrata</i>	X		XXX
<i>Cardamine oligosperma</i> = <i>C. umbellata</i>		XX	
<i>C. pensylvanica</i>		X	
<i>Draba incerta</i>		XX	
<i>D. paysonii</i>		X	
<i>D. praealta</i>		XX	
<i>D. stenoloba</i>		X	

DROSERACEAE

<i>Drosera anglica</i>		XX
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CRASSULACEAE

<i>Sedum lanceolatum</i>	XX	XXX
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SAXIFRAGACEAE

<i>Heuchera cylindrica</i>	XX	X	
<i>H. glabra</i>	XX	X	
<i>H. richardsonii</i>	X		
<i>Leptarrhena pyrolifolia</i>	XXX	XXXX	
<i>Mitella breweri</i>	XX	XXXXX	X
<i>M. pentandra</i>		XXX	
<i>Parnassia fimbriata</i>	X	XXXXX	XX
<i>P. palustris</i> var. <i>montanensis</i>		X	
<i>Ribes glandulosum</i>		X	
<i>R. lacustre</i>	XXX	XXXXX	
<i>R. laxiflorum</i>		XXXX	
<i>Saxifraga adscendens</i>		X	
<i>S. aizoides</i>		XXX	
<i>S. bronchialis</i>	XX	XXXXXX	
<i>S. caespitosa</i>		X	
<i>S. cernua</i>		X	
<i>S. ferruginea</i>	XXX	XXXXX	X
<i>S. lyallii</i>		XXXXXX	
<i>S. mertensiana</i>	X	X	
<i>S. occidentalis</i>	X	X	
<i>S. oppositifolia</i>	X	X	
<i>S. rhomboidea</i>		X	
<i>Tellima grandiflora</i>		XXXXX	
<i>Tiarella unifoliata</i>	XXXX	XXXX	X

ROSACEAE

<i>Amelanchier alnifolia</i>	X		
<i>A. alnifolia</i> var. <i>alnifolia</i>	XXX	XX	
<i>Aruncus sylvester</i>	XX	XXXXX	X
<i>Crataegus douglasii</i>	X		
<i>Dryas drummondii</i>		XXXX	
<i>D. hookeriana</i> = <i>D. octopetala</i>		XXX	
<i>Fragaria virginiana</i>	X		
<i>F. virginiana</i> var. or ssp. <i>glaucia</i>	XX	XXX	
<i>F. vesca</i>	X		
<i>Geum macrophyllum</i>	X	XXXXXX	
<i>Holodiscus discolor</i>	XX		
<i>Luetkea pectinata</i>	XX	XXXXXX	
<i>Potentilla argentea</i>	X		
<i>P. diversifolia</i>	X	XX	
<i>P. drummondii</i>	X	X	
<i>P. fruticosa</i>		XXX	
<i>P. norvegica</i>		X	

<i>V. parvifolium</i>	XX		
<i>V. scoparium</i>	X		
PRIMULACEAE			
<i>Lysimachia thrysiflora</i>	X		
<i>Primula mistassinica</i>		X	
<i>Trientalis europaea ssp. arctica</i>	X		
MENYANTHACEAE			
<i>Menyanthes trifoliata</i>		X	
APOCYNACEAE			
<i>Apocynum androsaemifolium</i>	X	XX	
HYDROPHYLACEAE			
<i>Phacelia hastata</i>		XX	
<i>P. hastata var. leucophylla</i>	X		X
<i>P. sericea</i>		XXX	
<i>Romanzoffia sitchensis</i>		X	
BORAGINACEAE			
<i>Myosotis laxa</i>		X	
<i>M. sylvatica</i> = <i>M. s. var. alpestris</i>	X	X	
LABIATAE = LAMIACEAE			
<i>Galeopsis tetrahit</i>	X	X	
<i>Lycopus uniflorus</i>		X	
<i>Mentha arvensis</i>	X		X
<i>Prunella vulgaris</i>	X	XX	
SCROPHULARIACEAE			
<i>Castilleja</i> sp.	XXX		
<i>C. hispida</i>	X	XX	
<i>C. ? hispidula</i>		X	
<i>C. miniata</i>	XX	XX	X
<i>C. ? miniata</i>	X		
<i>C. miniata</i> X <i>C. rhexifolia</i>			X
<i>C. (? miniata</i> X <i>occidentalis</i>)		X	
<i>C. occidentalis</i>	X	XX	X
<i>C. ? occidentalis</i>		X	
<i>C. rhexifolia</i>		XXX	
<i>C. ? rhexifolia</i>		X	
<i>Collomia parviflora</i>		XXXX	
<i>Digitalis purpurea</i>		X	
<i>Euphrasia canadensis</i> = <i>E. officinalis</i>		X	
<i>Melampyrum lineare</i>		X	
<i>Mimulus guttatus</i>	X	XXX	X
<i>M. lewisii</i>	XX	XXXXXX	X
<i>M. moschatus</i>	XXX	XXX	
<i>M. tilingii</i>		XXXX	
<i>Pedicularis bracteosa</i>	X	XXXXX	
<i>P. racemosa</i>	XX	XX	
<i>Penstemon ellipticus</i>	XXX	XX	
<i>P. fruticosus</i> var. <i>scouleri</i>	X		
<i>P. serrulatus</i>	X		
<i>Veronica alpina</i> var. <i>alterniflora</i>	X		
<i>V. alpina</i> var. <i>unalaschensis</i>		X	
<i>V. americana</i>	XXXX	XX	
<i>V. officinalis</i>	XXX		
<i>V. serpyllifolia</i>		XXX	
<i>V. serpyllifolia</i> var. <i>serpyllifolia</i>		X	
<i>V. wormskjoldii</i>	X	XXXXXX	

LENTIBULARIACEAE*Utricularia intermedia*

XX

PLANTAGINACEAE*Plantago lanceolata*
P. major

X X X

RUBIACEAE*Galium trifidum*
G. triflorum

X XX XX

CAPRIFOLIACEAE

<i>Linnaea borealis</i> = <i>L. b.</i> var. or ssp. <i>americana</i>	XXX	XX	X
<i>Lonicera involucrata</i>	XXX	XXX	X
<i>L. utahensis</i>	XXXXXX		XX
<i>Sambucus coerulea</i>	X		
<i>S. racemosa</i>	XX		
<i>S. racemosa</i> var. <i>melanocarpa</i>		XX	
<i>Symporicarpos albus</i>	XX	X	
<i>S. occidentalis</i>	X		
<i>Viburnum edule</i>	XX	XXXX	

VALERIANACEAE*Valeriana sitchensis* = *V. s.* ssp. *scouleri*

XXX XXX

CAMPANULACEAE*Campanula rotundifolia*

X XXX

ASTERACEAE (= COMPOSITAE)

<i>Achillea millefolium</i>		XXX	X
<i>Adenocaulon bicolor</i>	XXXX	XX	
<i>Agoseris aurantiaca</i>	X	X	
<i>Anaphalis margaritacea</i>	XX	XXX	
<i>Antennaria alpina</i>	XXX		
<i>A. corymbosa</i>		XX	
<i>A. lanata</i>	XX	XXX	
<i>A. racemosa</i>	X		
<i>A. umbrinella</i> ?	X		
<i>Arnica alpina</i> = <i>A. angustifolia</i>	X		
<i>A. amplexicaulis</i>	X	X	
<i>A. cordifolia</i>		X	
<i>A. diversifolia</i>	XX		
<i>A. latifolia</i>	XX	XXX	
<i>A. longifolia</i>		X	
<i>A. mollis</i>	XX	XXXX	
<i>Artemisia campestris</i>		X	
<i>A. michauxiana</i>		XXXX	
<i>Aster adscendens</i>		X	
<i>A. borealis</i>		X	
<i>A. ciliolatus</i>	XX		
<i>A. conspicuus</i>	X		
<i>A. engelmannii</i>	X	XX	
<i>A. foliaceus</i>	X		
<i>A. foliaceus</i> var. <i>parryi</i>		X	
<i>A. hesperius</i>		XX	
<i>A. modestus</i>		XXX	
<i>Centaurea maculosa</i>	X		
<i>Chicorium intybus</i>	X		
<i>Cirsium arvense</i>	X		
<i>C. hookerianum</i>		X	
<i>C. vulgare</i>		X	
<i>Conyza canadensis</i> = <i>Erigeron canadensis</i>	XX		
<i>Crepis tectorum</i>		XXX	
<i>Erigeron acris</i>	X	X	

<i>E. acris</i> var. <i>asteroides</i>		XX
<i>E. acris</i> var. <i>elatus</i>	X	
<i>E. acris</i> var. <i>debilis</i>	X	
<i>E. aureus</i>		X
<i>E. compositus</i>	X	
<i>E. compositus</i> var. <i>glabratus</i>	X	
<i>E. humilis</i> = <i>E. unalaschkensis</i>		XX
<i>E. peregrinus</i>	X	
<i>E. peregrinus</i> ssp. <i>callianthemus</i>		XXXX
<i>E. philadelphicus</i>		X
<i>Gnaphalium microcephalum</i>	X	
<i>Haplopappus lyallii</i>	X	
<i>Hieracium albiflorum</i>	XX	XX
<i>H. canadense</i>	X	
<i>H. cynoglossoides</i> = <i>H. albertinum</i>	XX	
<i>H. triste</i> ssp. <i>gracile</i> = <i>H. gracile</i>	XX	XXX
<i>Lactuca biennis</i>		X
<i>L. canadensis</i>	X	
<i>Leucanthemum vulgare</i> = <i>Chrysanthemum leucanthemum</i>		X
<i>Petasites frigidus</i> var. <i>nivalis</i>	X	
<i>P. frigidus</i> var. <i>vulgare</i>		X
<i>P. sagittatus</i>		X
<i>Rudbeckia hirta</i>	X	X
<i>Senecio fremontii</i>		X
<i>S. lugens</i>		X
<i>S. integrimus</i> var. <i>ochroleucus</i>	X	
<i>S. pauperulus</i>	X	XX
<i>S. pseudauraeus</i>	X	
<i>S. triangularis</i>	X	XXX
<i>Solidago canadensis</i>	XX	XXXXX
<i>S. canadensis</i> var. <i>subserrata</i>		X
<i>S. multiradiata</i>	XXX	XX
<i>Sonchus uliginosus</i>		X
<i>Taraxacum laevigatum</i>		X
<i>T. laevigatum</i> or <i>T. officinale</i> ?		X
<i>T. lyratum</i>	X	X

**APPENDIX IV. VASCULAR PLANT CHECKLIST OF
MOUNT REVELSTOKE AND GLACIER NATIONAL PARKS**
(as of December 1995)

Unless otherwise indicated, all records are from park ELC (1984).
B.C. CDC refers to tracking records filed with Conservation Data Centre, Victoria.

OPHIOGLOSSACEAE

<i>Botrychium lunaria</i>	
<i>B. multifidum</i>	
<i>B. multifidum</i> var. <i>intermedium</i>	(herbarium) - not in ELC
<i>B. simplex</i>	(Dunn 1989)
<i>B. virginianum</i>	(PF1684, 196)

POLYPODIACEAE

<i>Adiantum pedatum</i> = <i>A. p.</i> var. <i>aleuticum</i>	(PF1684)
<i>Aspidotis densa</i> = <i>Cheilanthes siliquosa</i>	
<i>Asplenium trichomanes</i>	(PF1684)
<i>A. viride</i>	
<i>Athyrium distentifolium</i> = <i>A. alpestre</i>	
<i>A. filix-femina</i>	(PF195, 1684, 204, 196)
<i>Blechnum spicant</i>	
<i>Cryptogramma crispa</i>	(PF1684)
<i>C. crispa</i> ssp. <i>acrostichoides</i>	(PF1684, 196; herbarium) - not in ELC
<i>C. stelleri</i>	(PF204, 196)
<i>Cystopteris fragilis</i>	(PF1684, 204, 196)
<i>C. fragilis</i> var. <i>fragilis</i>	(herbarium) - not in ELC
<i>Dryopteris</i> sp.	(Cody 1976)
<i>D. assimilis</i> = <i>D. expansa</i>	
<i>D. austriaca</i> = <i>D. dilatata</i>	(PF204, 196) - not in ELC
<i>D. ? austriaca</i>	(Dunn 1989) - not in ELC
<i>D. filix-mas</i>	(PF1684, 204, 196)
<i>D. sp.</i>	(PF1684)
<i>Gymnocarpium dryopteris</i>	(PF1684, 204, 196)
<i>Polypodium hesperium</i> = <i>P. vulgare</i> var. <i>vulgare</i>	(PF1684)
<i>P. hesperium</i> = <i>P. vulgare</i> var. <i>columbianum</i>	(herbarium) - not in ELC
<i>Polystichum andersonii</i>	(Dunn 1989) - not in ELC
<i>P. lonchitis</i>	(PF195, 1684, 196)
<i>P. munitum</i>	(PF1684, 204) - not in ELC
<i>Pteridium aquilinum</i> = <i>P. a.</i> var. <i>pubescens</i>	(PF1684, 196)
<i>Thelypteris phegopteris</i> = <i>Dryopteris phegopteris</i>	
<i>Woodsia scopulina</i>	(PF1684 - tent. I.D.)
<i>Woodsia</i> sp.	(PF1684, Cody 1976)

EQUISETACEAE

<i>Equisetum arvense</i>	(PF814, 1684, 196)
<i>E. fluviatile</i>	(PF196)
<i>E. palustre</i>	
<i>E. pratense</i>	(PF814)
<i>E. sylvaticum</i>	
<i>E. variegatum</i>	(PF814, 196)
<i>E. sp.</i>	(PF1684)

LYCOPODIACEAE

<i>Lycopodium alpinum</i>	
<i>L. annotinum</i>	(PF1684, 196, 671)
<i>L. clavatum</i>	(PF196) - not in ELC
<i>L. complanatum</i>	(PF1684, 196)
<i>L. obscurum</i>	(PF196)
<i>L. selago</i>	(PF196)
<i>L. sitchense</i>	(PF196, 671)

SELAGINELLACEAE

Selaginella densa
S. selaginoides

CUPRESSACEAE

Juniperus communis (PF196)
J. communis var. *montana* (herbarium) - not in ELC
J. horizontalis
Thuja plicata (PF671, 196)

PINACEAE

Abies lasiocarpa PF204, 671, 196)
Picea engelmannii (PF671, 196)
P. engelmannii X *P. glauca* (PF196, herbarium) - not in ELC
Pinus albicaulis (PF196)
P. contorta (herbarium) -not in ELC
P. contorta var. *latifolia* (PF196)
P. monticola (PF671, 196)
Pseudotsuga menziesii (herbarium) - not in ELC
P. menziesii var. *glauca* (PF671, 196)
Tsuga heterophylla (PF671, 196)
Tsuga mertensiana (PF671, 196)

TAXACEAE

Taxus brevifolia (PF204, 196)

TYPHACEAE

Typha latifolia (PF196)

SPARGANIACEAE

Sparganium angustifolium
S. minimum

POTAMOGETONACEAE (= NAJADACEAE)

Potamogeton alpinus
P. gramineus
P. natans

JUNCAGINACEAE

Triglochin maritima (PF196)
T. palustris (PF196)

GRAMINEAE

X Agroelymus mossii
Agropyron sp. (PF195, herbarium) - not in ELC
A. pectiniforme = *A. cristatum* (PF196)
A. repens
A. trachycaulum var. *trachycaulum*
A. violaceum
Agrostis alba (PF196)
A. borealis = *A. mertensii*
A. scabra = *A. hyemalis*
A. stolonifera
A. tenuis
A. thurberiana (PF659)
A. variabilis
Aira praecox (PF204, 196)
Bromus carinatus = *B. marginatus* (PF659, 204, 196)
B. ciliatus (PF196)
B. inermis (PF196)
B. sitchensis .
B. vulgaris
Calamagrostis canadensis (PF814)
C. inexpansa (PF196)

<i>C. purpurascens</i>	
<i>C. rubescens</i>	
<i>Cinna latifolia</i>	(PF659, 196)
<i>Dactylis glomerata</i>	(PF196)
<i>Danthonia spicata</i>	
<i>Elymus glaucus</i>	
<i>E. glaucus</i> var. <i>jepsonii</i>	(PF659, 195, 814, 204, 196)
<i>E. innovatus</i>	
<i>Festuca occidentalis</i>	
<i>F. occidentalis</i> var. <i>occidentalis</i>	(herbarium) - not in ELC
<i>F. ovina</i> var. <i>brachyphylla</i>	
<i>F. rubra</i>	(PF196)
<i>F. subulata</i>	
<i>Glyceria elata</i>	(PF196)
<i>G. grandis</i>	
<i>G. pulchella</i>	
<i>G. striata</i>	
<i>Hierochloe odorata</i>	
<i>Hordeum jubatum</i>	(PF196)
<i>Lolium perenne</i>	(PF196)
<i>Melica smithii</i>	
<i>M. subulata</i>	(PF195, 814)
<i>Muhlenbergia glomerata</i>	
<i>Phleum commutatum</i> = <i>P. alpinum</i>	(PF659, 195, 204)
<i>P. pratense</i>	(PF814, 196)
<i>Poa</i> sp.	(PF195) - not in ELC
<i>P. alpina</i>	(PF659, 204, 196)
<i>P. annua</i>	
<i>P. arctica</i>	
<i>P. compressa?</i>	(PF1684 - tent. I.D.)
<i>P. cusickii</i>	(herbarium) - not in ELC
<i>P. cusickii</i> var. <i>purpurascens</i>	
<i>P. epilis</i>	
<i>P. fendleriana</i>	
<i>P. ? fendleriana</i>	(PF 915)
<i>P. gracillima</i>	(PF814 - tent. I.D.)
<i>P. grayana</i>	
<i>P. leptocoma</i>	
<i>P. nervosa</i>	(PF659, 204, 196)
<i>P. palustris</i>	
<i>P. pattersonii</i>	
<i>P. pratensis</i>	(PF196)
<i>P. reflexa</i>	
<i>P. rupicola</i> = <i>P. glauca</i>	
<i>P. stenantha</i>	
<i>Stipa columbiana</i>	
<i>Trisetum cernuum</i>	(PF196)
<i>T. spicatum</i>	(PF659, 204, 196)
<i>Vahlodea atropurpurea</i> = <i>Deschampsia atropurpurea</i>	(PF659, 204, 196, 671)

CYPERACEAE

<i>Carex</i> sp.	(PF195, 814) - not in ELC
<i>Carex aenea</i>	
<i>C. albo-nigra</i>	
<i>C. angustior</i>	
<i>C. aperta</i>	
<i>C. aquatilis</i>	(PF196)
<i>C. aurea</i>	(PF196)
<i>C. bebbii</i>	(herbarium) - not in ELC
<i>C. brunnescens</i>	(PF196)
<i>C. ? brunnescens</i>	(herbarium) - not in ELC
<i>C. canescens</i>	
<i>C. capillaris</i>	
<i>C. deweyana</i>	(PF196)

<i>C. disperma</i>	
<i>C. eleusinoides</i>	
<i>C. flava</i>	(PF196)
<i>C. gynocrates</i>	
<i>C. illota</i>	(PF 935)
<i>C. interior</i>	(PF196)
<i>C. kelloggii</i>	
<i>C. lasiocarpa</i>	
<i>C. lenticularis</i>	(PF196)
<i>C. leptalea</i>	
<i>C. limosa</i>	
<i>C. macrochaeta</i>	
<i>C. mertensii</i>	(PF204, 196)
<i>C. microglochin</i>	
<i>C. microptera</i>	(PF196 - tent. I.D.)
<i>C. nardina</i>	
<i>C. nigricans</i>	(PF671)
<i>C. ? nigricans</i>	(herbarium) - not in ELC
<i>C. norvegica</i>	
<i>C. pachystachya</i>	(PF196)
<i>C. phaeocephala</i>	
<i>C. ? phaeocephala</i>	(herbarium) - not in ELC
<i>C. praticola</i>	(PF196 - tent. I.D.)
<i>C. ? praticola</i>	(herbarium) - not in ELC
<i>C. pyrenaica</i>	
<i>C. rossii</i>	
<i>C. rostrata</i>	(PF196)
<i>C. scirpoidea</i>	
<i>C. spectabilis</i>	(PF196, 671)
<i>C. tenera</i>	
<i>C. trisperma</i>	
<i>Eleocharis nitida</i>	
<i>E. rostellata</i>	
<i>E. tenuis</i>	(PF196)
<i>E. tenuis</i> var. <i>borealis</i>	
<i>Eriophorum chamissonis</i>	
<i>E. polystachion</i> = <i>E. angustifolium</i>	(PF196)
<i>E. gracile</i>	
<i>E. viridi-carinatum</i>	(PF196)
<i>Scirpus acutus</i>	(PF196)
<i>S. caespitosus</i>	
<i>S. microcarpus</i>	(PF196)

ARACEAE

Lysichitum americanum (PF659, 196)

LEMNACEAE

Lemna trisulca (herbarium) - not in ELC

JUNCACEAE

<i>Juncus acuminatus</i>	(PF196)
<i>J. alpinoarticulatus</i> = <i>J. alpinus</i>	
<i>J. balticus</i>	
<i>J. bolanderi</i>	(PF196)
<i>J. dudleyi</i> = <i>J. tenuis</i> var. <i>dudleyi</i>	(PF196, 671)
<i>J. drummondii</i>	(herbarium) - not in ELC
<i>J. ? drummondii</i>	
<i>J. ensifolius</i>	
<i>J. mertensianus</i>	(PF659, 204, 196)
<i>J. parryi</i>	(PF196)
<i>J. regelii</i>	
<i>J. saximontanus</i> = <i>J. ensifolius</i> var. <i>montanus</i>	
<i>J. tenuis</i>	(herbarium) - not in ELC
<i>Luzula arcuata</i>	

<i>L. hitchcockii</i> = <i>L. glabrata</i>	(PF195)
<i>L. parviflora</i>	(PF195, 814, 196)
<i>L. piperi</i> = <i>L. glabrata</i>	(herbarium) - not in ELC
<i>L. piperi</i> = <i>L. wahlenbergii</i>	(PF196, 671)
<i>L. spicata</i>	(PF196)
<i>L. spadicea</i>	(herbarium) - not in ELC

LILIACEAE

<i>Camassia quamash</i>	(PF659, 196)
<i>C. quamash</i> var. <i>maxima</i>	(herbarium) - not in ELC
<i>Clintonia uniflora</i>	(PF659, 195, 204, 196, 671)
<i>Disporum hookeri</i> = <i>D. hookeri</i> var. <i>oreganum</i>	(PF196)
<i>D. trachycarpum</i>	
<i>Erythronium grandiflorum</i>	(PF659, 195, 814, 196)
<i>Lilium columbianum</i> = <i>L. canadense</i> var. <i>parviflorum</i>	
<i>L. philadelphicum</i>	(herbarium) - not in ELC
<i>L. philadelphicum</i> var. <i>andinum</i>	
<i>Smilacina racemosa</i> = <i>S. r.</i> var. <i>amplexicaulis</i>	(PF659, 814, 196)
<i>S. stellata</i>	
<i>Streptopus amplexifolius</i>	(PF195, 814, 204, 196)
<i>S. amplexifolius</i> var. <i>amplexifolius</i>	
<i>S. amplexifolius</i> var. <i>chalazatus</i>	(PF659)
<i>S. roseus</i>	(PF659, 196)
<i>S. roseus</i> var. <i>curvipes</i>	
<i>S. roseus</i> var. <i>perspectus</i>	
<i>S. streptopoides</i>	(PF659, 204, 196, 671)
<i>Tofieldia glutinosa</i>	(PF196)
<i>T. intermedia</i>	(PF659) - not in ELC
<i>T. pusilla</i>	
<i>Veratrum eschscholtzii</i> = <i>V. viride</i>	(PF659, 814, 196, 671)
<i>Zigadenus elegans</i>	(PF659, 204, 196)
<i>Z. venenosus</i> var. <i>gramineus</i> = <i>Z. gramineus</i>	

ORCHIDACEAE

<i>Calypso bulbosa</i>	(PF659) - not in ELC
<i>Coeloglossum viride</i> var. <i>bracteata</i> = <i>Habenaria viridis</i> ; <i>H. v.</i> var. <i>bracteata</i>	
<i>Corallorrhiza maculata</i>	
<i>C. maculata</i> ? ssp. <i>mertensiana</i> = <i>C. mertensiana</i>	
<i>C. mertensiana</i>	(PF659, 204, 196)
<i>C. striata</i>	
<i>C. trifida</i>	(PF196)
<i>Goodyera oblongifolia</i>	(PF659, 196)
<i>Listera caurina</i>	
<i>L. convallarioides</i>	(PF196) - not in ELC
<i>L. cordata</i>	(PF659, 196)
<i>Platanthera dilatata</i> = <i>Habenaria dilatata</i>	(PF659, 196, 920, 919) - not in ELC
<i>P. dilatata</i> var. <i>albiflora</i>	
<i>P. dilatata</i> var. <i>dilitata</i>	
<i>P. hyperborea</i> = <i>Habenaria hyperborea</i>	(PF659, 196)
<i>P. orbiculata</i> = <i>Habenaria orbiculata</i>	
<i>P. saccata</i> = <i>Habenaria saccata</i> = <i>P. stricta</i>	(PF659, 195, 204, 196, herbarium)
<i>P. unalascensis</i> = <i>Habenaria unalascensis</i>	(herbarium)
<i>P. unalascensis</i> var. <i>elata</i> = <i>Habenaria unalascensis</i> var. <i>elata</i>	
<i>P. unalascensis</i> var. <i>unalascensis</i> = <i>Habenaria unalascensis</i> var. <i>elata</i>	
<i>Spiranthes romanzoffiana</i>	(PF659, 195)

SALICACEAE

<i>P. balsamifera</i> ssp. <i>trichocarpa</i> = <i>P. trichocarpa</i>	(PF196, herbarium) - not in ELC
<i>P. tremuloides</i>	(PF196)
<i>Salix alaxensis</i>	(PF196) - not in ELC
<i>S. arctica</i>	(PF204, 196)

<i>S. arctophila</i>	(PF196)
<i>S. barclayi</i>	(PF196)
<i>S. barrattiana</i>	
<i>S. brachycarpa</i>	(herbarium) - not in ELC
<i>S. brachycarpa</i> ssp. <i>brachycarpa</i>	
<i>S. candida</i>	
<i>S. commutata</i>	(PF204, 196)
<i>S. drummondiana</i>	
<i>S. glauca</i> = <i>S. g.</i> var. <i>villosa</i>	
<i>S. lasiandra</i>	(PF196)
<i>S. melanopsis</i> = <i>S. interior</i>	
<i>S. nivalis</i> = <i>S. reticulata</i> var. <i>nivalis</i>	(PF195, 196, 204)
<i>S. prolixa</i> = <i>S. mackenziana</i>	
<i>S. pseudomonticola</i> = <i>S. monticola</i>	
<i>S. scouleriana</i>	
<i>S. sitchensis</i>	(PF196)
<i>S. vestita</i>	(PF204, 196)
<i>S. sp.</i>	(PF814) - not in ELC

BETULACEAE

<i>Alnus crispa</i> = <i>A. viridis</i>	
<i>A. sinuata</i> (= <i>A. sitchensis</i>)	(PF659, 814, 204, 196) - not in ELC
<i>A. tenuifolia</i> = <i>A. incana</i>	(PF196, PF659)
(<i>A. tenuifolia</i> =) <i>A. incana</i> ?	(herbarium)
<i>A. rugosa</i> = <i>A. incana</i> ssp. <i>tenuifolia</i>	(herbarium) - not in ELC
<i>A. viridis</i> sinuata	
<i>Betula papyrifera</i>	(PF659, 196)
<i>B. papyrifera</i> var. <i>commutata</i>	(herbarium) - not in ELC
<i>Corylus cornuta</i>	

URTICACEAE

<i>Urtica dioica</i> ssp. <i>gracilis</i>	(PF196)
<i>U. dioica</i> ssp. <i>gracilis</i> var. <i>lyallii</i>	(PF204, herbarium) - not in ELC
<i>U. dioica</i> var. <i>lyallii</i>	(herbarium) - not in ELC
<i>U. lyallii</i>	(PF195, 814) - not in ELC

SANTALACEAE

<i>Comandra lividia</i> = <i>Geocaulon lividum</i>	(PF196) - not in ELC
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ARISTOLOCHIACEAE

<i>Asarum caudatum</i>

POLYGONACEAE

<i>Fagopyrum sagittatum</i> = <i>F. esculentum</i>	
<i>Oxyria digyna</i>	(PF195, 196)
<i>Polygonum amphibium</i>	
<i>P. austinae</i>	
<i>P. douglasii</i>	(herbarium) - not in ELC
<i>P. douglasii</i> var. <i>douglasi</i>	
<i>P. douglasii</i> var. <i>latifolium</i>	(PF204, 196, 919)
<i>P. engelmannii</i>	
<i>P. minimum</i>	
<i>P. persicaria</i>	
<i>P. viviparum</i>	(PF204, 196)
<i>Rumex acetosella</i>	(PF195, 196)
<i>R. obtusifolius</i>	(PF196)

CHENOPODIACEAE

<i>Chenopodium album</i>

PORTULACACEAE

<i>Claytonia lanceolata</i>	(PF814, 196)
<i>Montia parvifolia</i>	(PF196)

CARYOPHYLLACEAE

<i>Arenaria capillaris</i>	
<i>A. lateriflora</i> = <i>Moehringia lateriflora</i>	
<i>Cerastium beeringianum</i>	
<i>C. vulgatum</i>	(PF196)
<i>Dianthus armeria</i>	
<i>D. deltoides</i>	
<i>Minuartia biflora</i> = <i>Arenaria sajanensis</i>	
<i>M. obtusiloba</i> = <i>Arenaria obtusiloba</i>	
<i>M. rubella</i> = <i>Arenaria rubella</i>	
<i>Sagina saginoides</i>	(PF204, 196)
<i>S. ? saginoides</i>	(herbarium) - not in ELC
<i>Silene acaulis</i>	(PF195)
<i>S. alba</i> = <i>Lychnis alba</i>	(PF196)
<i>S. cserei</i>	
<i>S. drummondii</i> = <i>Lychnis drummondii</i>	
<i>S. coulteri</i>	
<i>S. uralensis</i> = <i>Lychnis apetala</i>	
<i>Spergularia rubra</i>	(PF196)
<i>Stellaria calycantha</i>	(PF195, 196)
<i>S. calycantha</i> var. <i>americana</i>	(herbarium) - not in ELC
<i>S. calycantha</i> var. <i>sitchiana</i>	(herbarium) - not in ELC
<i>S. crispa</i>	
<i>S. longipes</i>	
<i>Vaccaria pyramidata</i> = <i>V. segetalis</i>	(PF196)

RANUNCULACEAE

<i>Actaea rubra</i>	(PF814, 204, 196)
<i>A. rubra</i> f. <i>neglecta</i>	(PF204, herbarium) - not in ELC
<i>A. rubra</i> var. <i>arguta</i>	(herbarium) - not in ELC
<i>Anemone drummondii</i> = <i>A. lithophila</i>	
<i>A. multifida</i>	
<i>A. occidentalis</i>	(PF195, 196, 671)
<i>A. parviflora</i>	(PF195, 204, 196)
<i>Aquilegia flavescens</i>	(PF195, 204, 196)
<i>A. formosa</i>	(PF196)
<i>Caltha biflora</i>	(PF196) - not in ELC
<i>C. leptosepala</i>	(PF195)
<i>C. leptosepala</i> var. <i>biflora</i>	(herbarium) - not in ELC
<i>C. leptosepala</i> var. <i>leptosepala</i>	(herbarium) - not in ELC
<i>Delphinium</i> sp. (cultivar; non-native)	(herbarium) - not in ELC
<i>D. bicolor</i>	(PF195, 919) - not in ELC
<i>D. nuttallianum</i>	(PF196)
<i>Ranunculus acris</i>	(PF196)
<i>R. aquatilis</i>	
<i>R. eschscholtzii</i>	(PF195, 196, 920, 919, 915)
<i>R. gmelinii</i>	(herbarium) - not in ELC
<i>R. gmelinii</i> var. <i>hookeri</i>	
<i>R. pensylvanicus</i>	
<i>R. uncinatus</i>	(PF195, 196)
<i>R. uncinatus</i> var. <i>parviflorus</i>	(herbarium) - not in ELC
<i>R. verecundus</i>	
<i>Thalictrum occidentale</i>	(PF195, 814, 196) - not in ELC
<i>Trollius albiflorus</i> = <i>T. laxus</i> ; <i>T. l.</i> var. <i>albiflorus</i>	(PF195, 814, 204, 196)

BERBERIDACEAE

<i>Berberis aquifolium</i> var. <i>repens</i> = <i>Mahonia aquifolium</i>	(herbarium) - not in ELC
<i>B. nervosa</i> = <i>Mahonia nervosa</i>	(herbarium) - not in ELC
<i>B. repens</i>	

FUMARIACEAE

<i>Corydalis aurea</i>

BRASSICACEAE (= CRUCIFERAE)

<i>Arabis divaricarpa</i>	
<i>A. drummondii</i>	(PF195)
<i>A. hirsuta</i>	(PF196)
<i>A. hirsuta</i> ssp. <i>pycnocarpa</i>	(herbarium) - not in ELC
<i>A. holboellii</i> var. <i>retrofracta</i>	(PF196)
<i>A. lemmonii</i>	
<i>A. lyallii</i>	
<i>A. lyrata</i>	(PF659, 204, 196)
<i>Braya humilis</i>	
<i>Capsella bursa-pastoris</i>	(PF196)
<i>Cardamine bellidifolia</i>	
<i>C. occidentalis</i>	
<i>C. oligosperma</i> = <i>C. umbellata</i>	(PF204, 196, 659)
<i>C. pensylvanica</i>	(PF196)
<i>Draba aurea</i>	
<i>D. crassifolia</i>	(PF204, 196)
<i>D. incerta</i>	(PF195)
<i>D. ionchocarpa</i> var. <i>ionchocarpa</i>	
<i>D. paysonii</i>	(herbarium) - not in ELC
<i>D. praealta</i>	(PF659, 204, 196)
<i>D. stenoloba</i>	(PF196)

DROSERACEAE

<i>Drosera anglica</i>	(PF196)
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CRASSULACEAE

<i>Sedum lanceolatum</i>	(PF659, 204, 196)
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SAXIFRAGACEAE

<i>Heuchera cylindrica</i>	
<i>H. glabra</i>	
<i>H. richardsonii</i>	
<i>Leptarrhena pyrolifolia</i>	(PF659, 195, 196)
<i>Mitella breweri</i>	(PF659, 195, 196)
<i>M. pentandra</i>	(PF659, 204, 196)
<i>M. trifida</i>	
<i>Parnassia fimbriata</i>	(PF659, 195, 204, 196)
<i>P. palustris</i> var. <i>montanensis</i>	(herbarium) - not in ELC
<i>P. parviflora</i>	(PF196)
<i>Ribes glandulosum</i>	(herbarium) - not in ELC
<i>R. lacustre</i>	(PF659, 814, 204, 196)
<i>R. laxiflorum</i>	(PF659, 814, 204, 196)
<i>Saxifraga adscendens</i>	
<i>S. aizoides</i>	(PF659, 204, 196)
<i>S. bronchialis</i>	(PF659, 204, 196)
<i>S. caespitosa</i>	
<i>S. cernua</i>	
<i>S. debilis</i> = <i>S. rivularis</i>	
<i>S. ferruginea</i>	(PF659, 195, 196)
<i>S. lyallii</i>	(PF659, 195, 814, 204, 196)
<i>S. mertensiana</i>	(PF196)
<i>S. occidentalis</i>	(PF659, 204, 196)
<i>S. oppositifolia</i>	(PF204, 196)
<i>S. rhomboidea</i>	(PF195)
<i>Tellima grandiflora</i>	(PF659, 814, 204, 196)
<i>Tiarella unifoliata</i>	(PF659, 814, 196)

ROSACEAE

<i>Amelanchier alnifolia</i>	(PF659, 196)
<i>A. alnifolia</i> var. <i>alnifolia</i>	(herbarium) - not in ELC
<i>Aruncus sylvester</i>	(PF659, 195, 204, 196)
<i>Crataegus douglasii</i>	(herbarium) - not in ELC
<i>Dryas drummondii</i>	(PF659, 204, 196)

D. octopetala = D. o. var. hookeriana;	
D. hookeriana	(Woods et al. 1981; herbarium) - not in ELC
Fragaria glauca	(PF659) - not in ELC
F. virginiana	(PF195)
F. virginiana var. or ssp. glauca	(PF196; herbarium) - not in ELC
F. vesca	
Geum macrophyllum	(PF659, 814, 204, 196)
G. macrophyllum var. perincisum	
Holodiscus discolor	
Luetkea pectinata	(PF659, 814, 204, 196, 671)
Potentilla argentea	
P. diversifolia	(PF659, 195, 204, 196)
P. drummondii	
P. fruticosa	(PF659, 204, 196)
P. hyparctica	
P. norvegica	
P. palustris	
P. uniflora	
P. villosa	
Prunus emarginata	(PF659)
P. pensylvanica	
P. virginiana	
Rosa gymnocarpa	(PF659)
Rubus acaulis = R. arcticus; R. a. ssp. acaulis	(PF659, 196)
R. idaeus = R. strigosus = R. I. ssp.	
sachalinensis = R. i. ssp. melanolasius	(herbarium, PF659, 814)
R. idaeus ? ssp. sachalinensis	(196) - not in ELC
R. parviflorus	(PF659, 195, 196)
R. pedatus	(PF659, 814, 204, 196, 671)
R. procerus = R. discolor	
R. pubescens	
Sibbaldia procumbens	(PF659, 195, 204, 196, 671)
Sorbus scopulina	
S. scopulina var. cascadensis	(herbarium) - not in ELC
S. sitchensis	(PF659, 814, 196, 671)
Spiraea densiflora	(PF659, 814, 204, 196, 671)
S. douglasii	
S. lucida = S. betulifolia var. l. = S. betulifolia	(herbarium, PF196)

FABACEAE (= LEGUMINOSAE)

Hedysarum boreale	
Lathyrus ochroleucus	
L. ? ochroleucus	(herbarium) - not in ELC
Lupinus sp.	(herbarium) - not in ELC
L. latifolius	
L. polyphyllus	
L. polyphyllus var. burkei = L. burkei	(PF196)
Medicago lupulina	(PF196)
M. sativa	
Melilotus alba	(PF196)
M. officinalis	(PF196)
Trifolium agrarium = T. aureum	(PF196)
T. hybridum	(PF196)
T. pratense	(PF196)
T. repens	(PF195, 196)
Vicia sp.	(PF659, 196) - not in ELC
V. cracca	

EMPETRACEAE

Empetrum nigrum	(PF196)
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CELASTRACEAE

Pachystima myrsinites	(PF659, 196)
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ACERACEAE

Acer glabrum
A. glabrum var. *douglasii*

(herbarium) - not in ELC
(PF196)

BALSAMINACEAE
*Impatiens noli-tangere***RHAMNACEAE**

Ceanothus sanguineus
C. velutinus
Rhamnus purshiana

(PF196)

HYPERICACEAE

Hypericum formosum
H. formosum ssp. or var. *scouleri*
H. perforatum
H. scouleri ssp. *nortoniae*

(PF196) - not in ELC

(B.C. CDC)

VIOLACEAE

Viola adunca
V. glabella
V. orbiculata
V. palustris
V. renifolia = *V. r.* var. *brainerdii*
V. renifolia var. *renifolia*
V. rugulosa = *V. canadensis* var. *rugulosa*

(PF814, 196)

(PF659, 196)

(PF659, 195, 196, herbarium)

(PF196)

(PF659)

ELAEAGNACEAE

Shepherdia canadensis

(PF196)

ONAGRACEAE

Circaeaa alpina
Epilobium alpinum
E. alpinum var. *alpinum* = *E. anagallidifolium*
E. alpinum var. *clavatum* = *E. clavatum*
E. alpinum var. ? *clavatum*
E. alpinum var. *gracillimum*
E. alpinum var. *hornemannii*
E. alpinum var. *lactiflorum* = *E. lactiflorum*
E. alpinum var. *nutans* = *E. hornemannii*
E. alpinum var. ? *nutans*
E. angustifolium
E. glandulosum = *E. ciliatum*
E. glandulosum var. *adenocaulon*
E. latifolium
E. luteum
E. palustre
E. watsonii
E. watsonii var. *occidentale*

(PF196)

(PF659, 204, 196)

(PF196)

(herbarium) - not in ELC

(herbarium) - not in ELC

(PF196)

(PF195, 814)

(herbarium, PF196) - not in ELC

(PF659, 814, 204, 196, 671)

(PF659) - not in ELC

(PF659, 195, 196, 204)

(PF659, 195, 196, 204)

(PF659)

(PF659, 196) - not in ELC

HIPPURIDACEAE

Hippuris vulgaris

ARALIACEAE

Aralia nudicaulis
Oplopanax horridum

(PF659, 196)

(PF659, 196)

APIACEAE (= UMBELLIFERAE)

Angelica genuflexa
Apium graveolens
Cicuta douglasii
Heracleum lanatum
Ligusticum canbyi
Lomatium sp.

(PF3565)

(PF659) - not in ELC

(PF659, 3565, 196)

(PF659, 814, 3565, 204, 196)

(PF659, 814, 3565, 204, 196)

(PF671)

<i>L. triternatum</i>	(herbarium) - not in ELC
<i>Lomatium</i> or <i>Ligusticum</i> ?	(herbarium) - not in ELC
<i>Osmorhiza chilensis</i>	(PF3565)
<i>O. purpurea</i>	(PF659, 195, 3565, 204, 196)
<i>O. depauperata</i>	(PF3565)
<i>Zizia aptera</i>	(herbarium) - not in ELC

CORNACEAE

<i>Cornus canadensis</i>	(PF659, 814, 204, 196)
<i>C. stolonifera</i>	(PF659, 196)

PYROLACEAE

<i>Chimaphila umbellata</i> = <i>C. u.</i> var. <i>occidentalis</i>	(PF659, 196)
<i>Moneses uniflora</i>	(PF659, 204, 196)
<i>Orthilia secunda</i> = <i>Pyrola secunda</i>	(PF659, 204, 196)
<i>Pyrola asarifolia</i>	(PF659, 196)
<i>P. chlorantha</i> = <i>P. virens</i>	(PF196)
<i>P. minor</i>	(PF659, 195, 204, 196)
<i>P. picta</i>	

MONOTROPACEAE

<i>Monotropa hypopitys</i> = <i>Hypopitys monotropa</i>	(PF196)
<i>M. uniflora</i>	

ERICACEAE

<i>Arctostaphylos uva-ursi</i>	(PF659) - not in ELC
<i>Cassiope mertensiana</i>	(PF659, 195, 196, 204)
<i>C. tetragona</i>	(herbarium) - not in ELC
<i>C. tetragona</i> var. <i>saximontana</i>	
<i>Gaultheria humifusa</i>	(PF659, 196, 671)
<i>G. ovatifolia</i>	(PF659, 196, 671)
<i>Kalmia polifolia</i>	(herbarium, 196, 671) - not in ELC
<i>K. polifolia</i> var. <i>microphylla</i>	(PF659)
<i>K. polifolia</i> var. <i>polifolia</i>	(PF659) - not in ELC
<i>Ledum glandulosum</i>	(PF659) - not in ELC
<i>L. groenlandicum</i>	(PF659, 196)
<i>Menziesia ferruginea</i>	(PF659, 814, 204, 196) - not in ELC
<i>M. glabella</i> = <i>M. ferruginea</i> var. <i>glabella</i>	
<i>Oxycoccus microcarpus</i>	
<i>Phyllodoce empetrifloris</i>	(PF659, 195, 196, 671, 204)
<i>Phyllodoce glanduliflora</i>	(PF659, 195, 196)
<i>Phyllodoce X intermedia</i>	
<i>Rhododendron albiflorum</i>	(PF659, 195, 196, 671, 204)
<i>Vaccinium caespitosum</i>	(PF659, 195, 196, 671, 204)
<i>V. membranaceum</i>	(PF659, 814, 196, 671, 204)
<i>V. myrtilloides</i>	
<i>V. myrtillus</i>	
<i>V. ovalifolium</i>	(PF659, 814, 196, 671, 204)
<i>V. parvifolium</i>	(herbarium) - not in ELC
<i>V. scoparium</i>	(PF659)
<i>V. uliginosum</i>	

PRIMULACEAE

<i>Androsace septentrionalis</i>	
<i>Lysimachia thrysiflora</i>	
<i>Primula mistassinica</i>	
<i>Trientalis arctica</i>	
<i>T. europaea</i> ssp. <i>arctica</i>	(PF659, 196) - not in ELC

GENTIANACEAE

<i>Gentiana glauca</i>	
<i>Gentianella propinqua</i>	

MENYANTHACEAE*Menyanthes trifoliata***APOCYNACEAE***Apocynum androsaemifolium*

(PF659, 196)

HYDROPHYLLACEAE*Phacelia hastata*

(PF659, 204, 196)

P. hastata var. leucophylla

(herbarium) - not in ELC

P. sericea

(PF659, 195, 196)

Romanzoffia sitchensis

(PF659, 204, 196)

BORAGINACEAE*Hackelia jessicae* = *H. micrantha*

(PF195) - not in ELC

Myosotis arvensis

(PF659)

*M. alpestris**M. laxa*

(herbarium) - not in ELC

M. sylvatica = *M. s.* var. *alpestris*

(PF659, 196, herbarium) - not in ELC

LABIATAE*Galeopsis tetrahit**Lycopus uniflorus**Mentha arvensis**Prunella vulgaris**P. vulgaris* var. *lanceolata*

(PF196) - not in ELC

(PF659)

SCROPHULARIACEAE*Castilleja* sp.

(herbarium, 671) - not in ELC

C. hispida

(PF195)

C. ? hispidula

(herbarium) - not in ELC

C. miniata

(PF659, 814)

C. ? miniata

(herbarium) - not in ELC

C. miniata X *C. rhexifolia*

(herbarium) - not in ELC

C. (? miniata X *occidentalis*)

(herbarium) - not in ELC

C. occidentalis

(PF659, 204, 196)

C. ? occidentalis

(herbarium) - not in ELC

C. rhexifolia

(PF659, 204, 196)

C. ? rhexifolia

(herbarium) - not in ELC

Collinsia parviflora

(PF659, 195)

*Digitalis purpurea**Euphrasia canadensis* = *E. officinalis**Melampyrum lineare*

(PF659)

Mimulus guttatus

(PF196) - not in ELC

M. ? guttatus

(PF814, 204, 196)

*M. lewisii**M. moschatus**M. tilingii*

(PF195, 204, 196)

Pedicularis bracteosa

(PF659, 195, 204, 196)

P. racemosa

(PF196)

Penstemon ellipticus

(PF659, 196)

P. fruticosus

(herbarium) - not in ELC

P. fruticosus var. *scouleri*

(PF659)

P. serrulatus

(PF196)

Verbascum thapsus

(PF195) - not in ELC

Veronica alpina

(herbarium) - not in ELC

V. alpina var. *alterniflora*

(herbarium) - not in ELC

V. alpina var. *unalaschensis*

(herbarium) - not in ELC

V. americana

(PF196)

V. officinalis

(PF659, 196)

V. serpyllifolia

(herbarium) - not in ELC

V. serpyllifolia var. *serpyllifolia*

(PF659, 204, 196) - not in ELC

V. wormsjoldii

LENTIBULARIACEAE

- Pinguicula vulgaris* (Woods et al. 1981, PF196)
Utricularia intermedia (PF659, 196)
U. minor
U. vulgaris

PLANTAGINACEAE

- Plantago lanceolata* (PF196)
P. major (PF196)

RUBIACEAE

- Galium trifidum*
G. triflorum (PF659, 196)

CAPRIFOLIACEAE

- Linnaea borealis* = *L. b.* var. or ssp. *americana* (PF659, 195, 196, herbarium)
Lonicera involucrata (PF659, 814, 196)
L. utahensis (PF659, 814, 196)
Sambucus coerulea
S. racemosa (herbarium) - not in ELC
S. racemosa var. *arbescens* (PF659) - not in ELC
S. racemosa var. *melanocarpa* (PF659, 814, 204, 196)
Symporicarpos albus (PF196)
S. occidentalis
Viburnum edule (PF659, 196)

VALERIANACEAE

- Valeriana sitchensis* = *V. s.* ssp. *scouleri* (PF659, 195, 196, 671)

CAMPANULACEAE

- Campanula lasiocarpa*
C. rotundifolia (PF659, 195, 196)

LOBELIACEAE

- Lobelia kalmii* (PF196)

ASTERACEAE (= COMPOSITAE)

- Achillea millefolium* (PF659, 196)
Adenocaulon bicolor (PF196)
Agoseris aurantiaca (PF195)
Anaphalis margaritacea (PF659, 814, 196, 671)
Antennaria sp. (PF196) - not in ELC
A. alpina
A. corymbosa (PF204, 196)
A. lanata (PF195, 196)
A. racemosa
A. rosea (PF196)
A. umbrinella
A. ? umbrinella (herbarium) - not in ELC
Arctium sp. (PF196)
Arnica alpina = *A. angustifolia*
A. amplexicaulis (PF659)
A. cordifolia
A. diversifolia (PF196)
A. latifolia (PF659, 195, 196, 671, 814, 204)
A. longifolia (PF659)
A. louiseana
A. mollis (PF659, 204, 196)
A. rydbergii
Artemisia campestris
A. michauxiana (PF195, 196, 204)
Aster adscendens
A. borealis
A. ciliolatus (PF659)

<i>A. conspicus</i>	
<i>A. engelmannii</i>	(PF204, 196)
<i>A. foliaceus</i>	(PF659)
<i>A. foliaceus</i> var. <i>parryi</i>	(herbarium) - not in ELC
<i>A. hesperius</i>	
<i>A. modestus</i>	(PF204, 196)
<i>A. sibiricus</i>	(PF196)
<i>Centaurea maculosa</i>	
<i>Chamomilla suaveolens</i> = <i>Matricaria matricarioides</i>	
<i>Chicorium intybus</i>	(PF196)
<i>Cirsium arvense</i>	(PF196)
<i>C. brevistylum</i>	(PF196)
<i>C. hookerianum</i>	(PF196, 204)
<i>C. vulgare</i>	(PF196)
<i>Conyza canadensis</i> = <i>Erigeron canadensis</i>	(PF196)
<i>Crepis nana</i>	
<i>C. tectorum</i>	(PF196)
<i>Erigeron</i> sp.	(PF671) - not in ELC
<i>E. acris</i>	(PF659) - not in ELC
<i>E. ? acris</i>	(PF920)
<i>E. acris</i> var. <i>asteroides</i>	(PF204, 196, herbarium)
<i>E. acris</i> var. <i>elatus</i>	
<i>E. acris</i> var. <i>debilis</i>	
<i>E. aureus</i>	(PF659, 195, 196)
<i>E. compositus</i>	
<i>E. compositus</i> var. <i>glabratus</i>	(herbarium) - not in ELC
<i>E. humilis</i> = <i>E. unalaschkensis</i>	(PF659, 204, 196)
<i>E. peregrinus</i>	(PF659, 814) - not in ELC
<i>E. peregrinus</i> ssp. <i>callianthemus</i>	(PF204, 196)
<i>E. philadelphicus</i>	
<i>E. speciosus</i>	(PF659, 814) - not in ELC
<i>Gnaphalium microcephalum</i>	
<i>Haplopappus lyallii</i>	
<i>Hieracium albiflorum</i>	(PF196)
<i>H. canadense</i>	
<i>H. cynoglossoides</i> = <i>H. albertinum</i>	
<i>H. triste</i> ssp. <i>gracile</i> = <i>H. gracile</i>	(PF195, 196, 671)
<i>Lactuca biennis</i>	(PF196)
<i>L. canadensis</i>	
<i>L. muralis</i>	
<i>Leucanthemum vulgare</i> = <i>Chrysanthemum leucanthemum</i>	
<i>Matricaria matricarioides</i>	(PF659, 196)
<i>Petasites frigidus</i>	(PF196)
<i>P. frigidus</i> var. <i>nivalis</i>	(PF659, 196) - not in ELC
<i>P. frigidus</i> var. <i>vulgare</i>	(herbarium) - not in ELC
<i>P. sagittatus</i>	(herbarium) - not in ELC
<i>P. vitifolius</i>	
<i>Rudbeckia hirta</i>	
<i>Saussurea densa</i> = <i>S. nuda</i>	
<i>Senecio fremontii</i>	
<i>S. integerimus</i>	
<i>S. integerimus</i> var. <i>ochroleucus</i>	(herbarium) - not in ELC
<i>S. lugens</i>	(herbarium) - not in ELC
<i>S. pauperulus</i>	(PF204, 196)
<i>S. pseudauraeus</i>	
<i>S. streptanthifolius</i> = <i>S. cymbalariaeoides</i>	
<i>S. triangularis</i>	(PF195, 196)
<i>Solidago canadensis</i>	(PF659, herbarium) - not in ELC
<i>S. canadensis</i> var. <i>subserrata</i>	(PF196)
<i>S. multiradiata</i>	(PF659, 204, herbarium) - not in ELC
<i>S. multiradiata</i> var. <i>scopulorum</i>	(PF196)
<i>Sonchus arvensis</i>	
<i>S. asper</i>	(PF196)

<i>S. uliginosus</i>	(PF196, herbarium) - not in ELC
<i>Taraxacum eriophorum</i>	
<i>T. laevigatum</i>	(PF196)
<i>T. laevigatum</i> or <i>T. officinale</i> ?	(herbarium) - not in ELC
<i>T. lyratum</i>	(PF195, 196, 204)
<i>Tragopogon pratensis</i>	

