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# THE RARE VASCULAR PLANTS OF BRITISH COLUMBIA

Gerald B. Straley
Roy L. Taylor
George W. Douglas

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# THE RARE VASCULAR PLANTS OF BRITISH COLUMBIA

**Gerald B. Straley[1], Roy L. Taylor[1] and George W. Douglas[2]**

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## ABSTRACT

Information concerning 816 taxa of rare plants growing in British Columbia is given in the form of an annotated list. Cited references, maps, herbaria consulted, the total range for each taxon, the range in British Columbia, the biogeoclimatic zone and habitat in which it is found in the Province, and a rare status of R1-R4 within the Province is given. Distribution maps for the first two categories of rarity are included.



## RÉSUMÉ

Les informations relatives aux 816 taxons de plantes rares qui poussent en Colombie-Britannique sont données sous la forme d'une liste annotée. L'ouvrage donne une liste des références pertinentes, des cartes, des herbiers consultés, l'aire de répartition totale pour chaque taxon, l'aire de répartition en Colombie-Britannique, la zone bio-géoclimatique et l'habitat de la plante dans la province, ainsi qu'une évaluation de sa rareté dans la province, d'après une échelle qui comprend quatre catégories, de R1 à R4. L'ouvrage comprend des cartes de distribution correspondant aux deux premières catégories de rareté.

# INTRODUCTION

British Columbia, covering 94.86 million hectares or 366,255 sq. miles, is larger than the total combined land area of California, Oregon and Washington. The Province has great variation in topography (sea-level to 4,663 m) and climatic regimes ranging from frost-free periods that can last over one year to a short growing season of relatively few days in high alpine areas. Annual average precipitation varies from 274 cm on the west coast of Vancouver Island to only 25 cm in the dry interior. The Province extends some 1,300 km, ranging from 48°17′34″N to 69°00′09″N latitude, with an extensive saltwater coastline of 12,150 km and approximately 6,500 adjacent islands.

The Province is mountainous and a large portion is still unaccessible and largely uncollected from a plant record point-of-view. There are few roads in the northern half and in the highly dissected and rugged coastal areas. Plant distribution patterns, when mapped, give a false impression of actual distributions, often largely following railway right-of-ways or roads such as the Alaska Highway, Williams Lake to Bella Coola, Prince George to Prince Rupert, Stewart to Cassiar and the Haines road in northwestern B.C. Much of the Province is poorly collected and sadly there are few active field collectors today. New plant records are found with just about every major collecting trip, even in the more populous areas around Vancouver and Victoria where pressures are the greatest on plants and their habitats.

The scope of the problem in resolving the rarity of plants in British Columbia is a large one. There are some 2,500 species of vascular plants, 1,000 bryophytes, over 2,000 freshwater algae, 500 macro marine algae, and a mycobiota of some 10,000 taxa including more than 2,000 macrofungi. In addition there are approximately 1,000 lichens. This publication and the discussion that follows will be restricted to the vascular plants.

The completion of *Vascular Plants of British Columbia: A Descriptive Resource Inventory* by Taylor and MacBryde (1977) gave us a much greater understanding of the flora of British Columbia. It closed a major gap in our knowledge of the flora of western North America between Alaska, the continental Northwest Territories, Alberta and the Pacific Northwest United States. The *Inventory* provided the basis for the rare plant project in B.C. and will continue to be the basis for future work on the flora of the Province.

There are a few endemic species of the 2,500 species representing some 3,100 different taxa[1] in the Province (Taylor and MacBryde 1977). Some of these endemics have resulted from the origin and development of the flora during the past 20,000 years. British Columbia was essentially covered with ice during the last glaciation and only a few refuges from this ice cover were present in the Province, such areas being on the northwestern side of Vancouver Island, specifically the Brooks Peninsula (Pojar 1980) and portions of the western side of the Queen Charlotte Islands (Calder and Taylor 1968). Fourteen taxa are known to be endemic to the Province: *Adiantum pedatum* var. *subpumilum* (Dwarf Maidenhair Fern), *Bidens amplissima* (Vancouver Island Beggarticks), *Senecio newcombei* (Newcombe's Ragwort), *Ligusticum calderi* (Calder's Lovage), *Cassiope lycopodioides* subsp. *cristapilosa* (Club-moss Cassiope), *Limnanthes macounii* (Macoun's Meadow-foam), *Isopyrum savilei* (Queen Charlotte Isopyrum), *Geum schofieldii* (Queen Charlotte Avens), *Saxifraga taylori* (Taylor's Saxifrage), *Mimulus guttatus* subsp. *haidensis* (Haida Monkeyflower), *Viola biflora* subsp. *carlottae* (Queen Charlotte Twinflower Violet), *Viola maccabeiana* (MacCabe's Violet), *Trillium ovatum* f. *hibbersonii* (Hibberson's Western White Trillium), and *Calamagrostis purpurascens* subsp. *tasuensis* (Purple Small Reed Grass). The majority of these taxa are restricted to the Queen Charlotte Islands or the Brooks Peninsula of Vancouver Island.

The geographical affinities of the vascular flora are primarily circumpolar or with a strong Cordilleran relationship to western United States. There are some examples of coastal species that have both North and South American affinities. The predominant floristic elements are North American, but montane and alpine taxa usually have a more circumboreal distribution.

There has been no definitive phytogeographical analysis of the provincial flora, but a detailed analysis was completed for the 593 taxa of the Queen Charlotte Islands flora (Calder and Taylor 1968). An updated analysis of the Queen Charlotte Islands in 1984 indicates 611 taxa, with 20.13 percent of the flora having been introduced by man. The 1977 analysis (Taylor and MacBryde 1977) of the entire provincial flora revealed 21.1 percent of the taxa are introduced.

### The Development of Rare Plant Inventories

The history and development of accumulation of data for rare plants in British Columbia dates back

[1]includes all species plus infraspecific categories

to 1973 when the Systematic and Phytogeographic Section of the Canadian Botanical Association established a Rare and Endangered Plants Committee. The Committee initiated the development of a national survey of rare plants on a provincial and territorial basis under the direction of Dr. George W. Argus of the National Museums of Canada. This program has resulted in the publication of nine provincial lists, i.e., Ontario (Argus and White 1977), Alberta (Argus and White 1978), Nova Scotia (Maher *et al.* 1978), the Continental Northwest Territories (Cody 1979), Saskatchewan (Maher *et al.* 1979), Manitoba (White and Johnson 1980), the Yukon (Douglas *et al.* 1981), Quebec (Bouchard *et al.* 1983) and New Brunswick (Hinds 1983). Additional information has been published for Ontario (Argus and White 1982-1983; Argus and Keddy 1984) and Alberta (Packer and Bradley 1984). The program established the definitions for the status of plants to be included in the inventories:

A **rare plant** is one that has a small population within the province or territory. It may be restricted to a small geographical area or it may occur sparsely over a wider area.

A **threatened plant** is one that is likely to become endangered within the foreseeable future over all or a significant portion of its range in the province or territory.

An **endangered plant** is one which is in danger of extirpation throughout all or a significant portion of its range in the province or territory.

These definitions are generally recognized worldwide as appropriate for determining the status of a plant in a flora. (The words **plant, species**, and **taxa** are used interchangeably in the text.)

Other national and international efforts are being undertaken at the same time as the programs are being developed by the National Museums of Canada. The Canadian Wildlife Service has established a Plant Subcommittee of the COSEWIC Program (Committee on the Status of Engandered Wildlife in Canada). This program is systematically preparing and reviewing status reports on rare, threatened and endangered species for the development of provincial and national regulations regarding these plants. This is a long-term program that will take some time before the majority of plants in the three categories can be assessed and the necessary conservation action put into place.

On the international scene, the Internation Union for Conservation of Nature and Natural Resources has established a Threatened Plants Committee at the Royal Botanic Gardens, Kew. The Secretary of the Threatened Plants Committee, has been active in establishing a review system to determine which threatened or endangered plants are currently in cultivation in the world's botanical gardens. The United States Wildlife Service through a contract with the Smithsonian Institution has published a list of endangered and threatened plant species for that country (Ayensu and DeFilipps 1978). The International Union for Conservation of Nature and Natural Resources has published the IUCN Red Data Book (Lucas and Synge 1978).

There has been a growing recognition by most of the major governments of the world that legislation is needed regarding the importation, sale and transport of endangered and threatened species. As a result, an international convention regarding trade in endangered species of wild fauna and flora was instituted and Canada is one of the signing members of this international agreement.

**The British Columbia Rare Plant Program**

In 1977, under the aegis of the Botanical Garden at the University of British Columbia, a small committee was established, representing various agencies and amateur groups interested in the conservation of plants. This committee began a comprehensive study of the rare plants of British Columbia in cooperation with the National Museums of Canada program. In addition, the Nature Conservancy of the Washington State National Heritage Program was invited to participate and have since continued to liaise with the committee.

The first task of the committee was to establish a working list of rare plants for the Province. The question of determining threatened or endangered status was left in abeyance until a list of rare plants was completed. The committee established four classes of rareness and they are as follows:

R1 — plant taxa that are represented by a single or few known populations, usually with only a few individuals in the populations. An example is *Cephalanthera austinae* known from only six populations in the province, with few individuals in each (Fig. 1a).

R2 — plant taxa that have few to several populations, but usually with a relatively large number of individuals in each population. An example is *Erythronium montanum*, a plant species with four known populations in the province, but with large numbers of individuals in each (Fig. 1b).

R3 — plant taxa that have no distinct geographical range or distribution, usually scattered in

the province, in isolated populations consisting of small numbers of plants. An example is *Primula egaliksensis* (Fig. 1c).

R4 — plant taxa that are restricted in their general distribution in the province and often represent the northern or southern limits of more commonly distributed plants. The populations often consist of numerous individuals, but with a narrow geographical range in the province. An example is *Xerophyllum tenax* (Fig. 1d).

Obviously there are some degrees of overlap in all the categories of rareness and we do not have enough information on some of the plants to accurately place them in one of the categories. Data from herbarium specimens often give no information as to population size. In other cases populations may be very small in one location and large in another.

One of the problems the committee had in establishing these various categories was not to develop a myopic viewpoint of the province. Often workers in the Lower Mainland of British Columbia tend to underestimate the importance of the rest of the province in taking into consideration plant distributions. It is important in determining the degree of rarity and distribution that the total geographical area of the Province be taken into consideration. Species that occur in a relatively small area of the Province may well fall into the category of large populations but of restricted distribution (R4 plants). Our committee studies have indicated that 816 plants can be classified as rare in British Columbia. The list tends to be inclusive rather than exclusive since information may not be complete for all plants. It is our hope that as more information and knowledge is accumulated about the plants of the Province the list can be refined, thus we have erred on the inclusion of taxa rather than on their exclusion.

We have been concerned that the actual location of rare plants should not be generally available, particularly for R1 and R2 taxa. Therefore, we have opted to include only the nearest post office location for distribution purposes. In this way we will tend to protect the plant from undue exploitation by non-conservation minded people. Detailed information of the actual location of the plant will be maintained in our files for research and reference purposes.

There are some serious problems relating to the development of the data base. Firstly, it is difficult to ensure accuracy of the identification of the plants. We have made use of the expertise of many plant specialists in providing accurate review and identification of taxa cited.

Secondly, plant distributions are often inadequately documented. We encourage the preparation of new herbarium vouchers providing such documentation does not imperil the natural plant population. Small populations of rare plants for which there are adequate herbarium vouchers should not be re-collected. There are instances where botanical collectors have been some of the worst offenders in decreasing the natural plant populations simply because the collector did not take the time to check whether or not there was adequate existing material already on file.

We have also wrestled with the problem of inclusion of infraspecific taxa, namely subspecies, varieties and forms. As many of our populations in British Columbia represent a subspecific or varietal taxon of a more widespread species in North America or in the circumboreal region, we feel it is useful to indicate the infraspecific designation of the taxon. From a research point-of-view, it is important to know whether we are dealing with a distinct genetic resource from either the typical or another segregate of the species. The recognition of such taxa can be important in both future breeding programs for new horticultural or agronomic material and for further understanding of the biology and systematics of species. Therefore, we have adopted the position of including infraspecific taxa in our rare plant list.

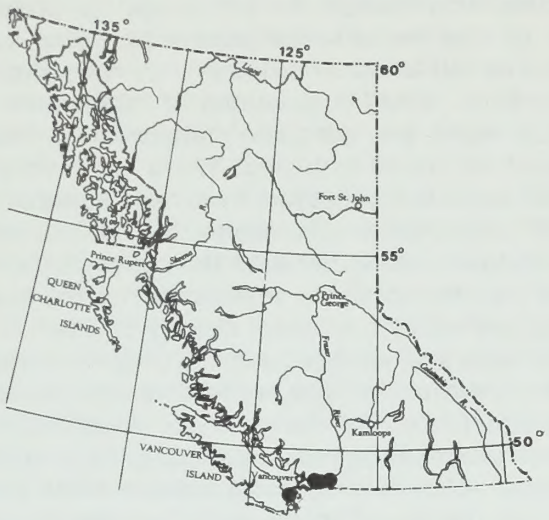
We are also cognizant that nomenclature and taxonomy of plant groups are constantly under review and are sometimes subject to name change. A general policy was adopted that the nomenclature would follow that of the *Vascular Plants of British Columbia* (Taylor and MacBryde 1977). As new taxonomic studies are published, it will be necessary to modify the list accordingly.

**Format of an Individual Entry**

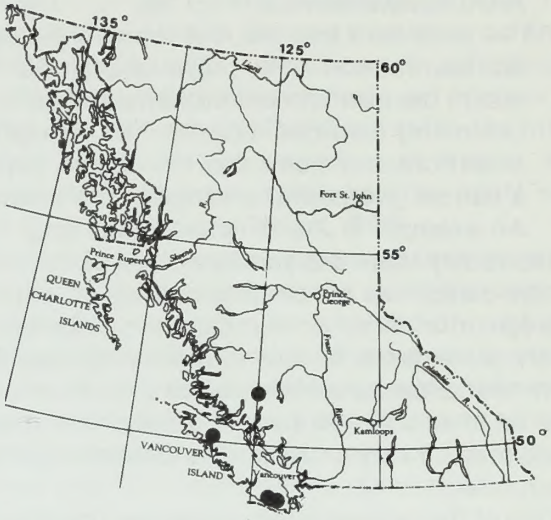
All taxa are entered alphabetically. Each entry consists of up to 12 parts as follows.

**Scientific Name and Author**: Names follow Taylor and MacBryde (1977) for the most part. In a few instances, especially where there has been recent taxonomic work on certain groups, we have elected to use other names or followed Kartesz and Kartesz (1980).

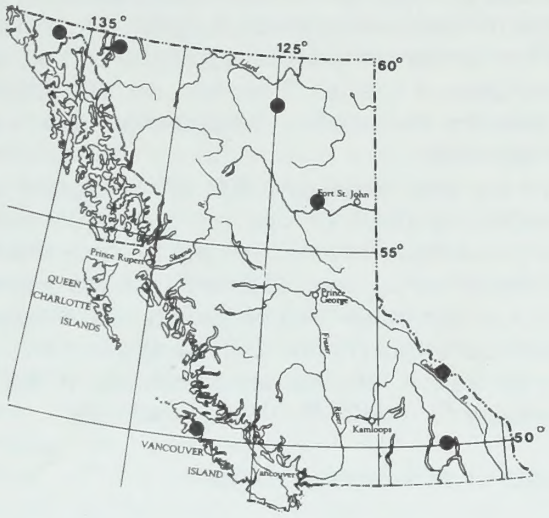
**Synonymy**: Synonyms are given only when there are frequent references to a given taxon by another name or names. No effort is made to list all synonyms which are available from most standard floras.



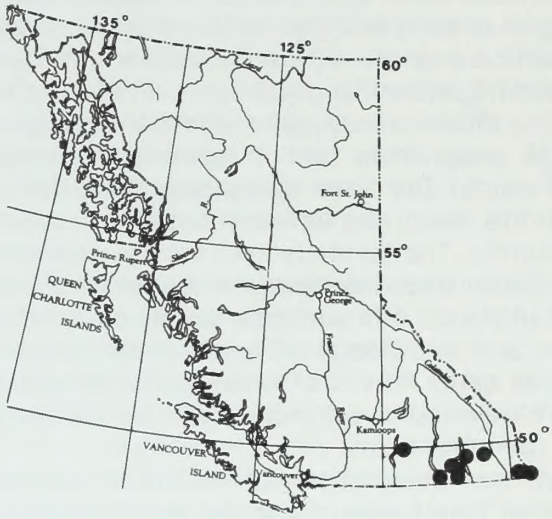

a. R1 — Cephalanthera austinae




b. R2 — Erythronium montanum




c. R3 — Primula egaliksensis




d. R4 — Xerophyllum tenax

Figure 1. Examples of plant distribution illustrating four classes of rarity used in the British Columbia Rare Plant Program.

**Common Name**: Whenever possible a common name for each taxon has been included, largely following those used by Taylor and MacBryde (1977).
**Herbaria**: Acronyms, following Stafleu (1981), are listed for the following herbaria in which we have seen specimens from the Province or for which there is a recent literature citation of specimens: Agriculture Canada Research Station, Kamloops (ACK), University of Alberta, Edmonton (ALTA), National Herbarium of Canada, Ottawa (CAN), Biosystematics Research Institute, Agriculture Canada, Ottawa (DAO), Field Museum, Chicago (F), Douglas Ecological Consultants, Duncan (GD), Gray Herbarium of Harvard University, Cambridge (GH), University of Michigan, Ann Arbor (MICH), Missouri Botanical Garden, St. Louis (MO), New York Botanical Garden, New York (NY), University of Toronto, Toronto (TRT), University of British Columbia, Vancouver (UBC), University of California, Berkeley (UC), United States National Herbarium, Smithsonian Institution, Washington (US), University of Victoria, Victoria (UVIC), British Columbia Provincial Museum, Victoria (V), Washington State University, Pullman (WS), University of Washington, Seattle (WTU), University of Western Washington, Bellingham (WWB). Acronyms have been assigned arbitrarily for the following herbaria not listed in Stafleu: British Columbia Department of Agriculture, Vancouver (B.C.D.A.V.), British Columbia Ministry of Forests, Williams Lake (W.L.), Dominion Laboratory of Plant Pathology, Summerland (D.L.P.P.S.), and Ministry of the Environment, Kelowna (M.O.E.K.).
**References**: Citations are given for those references that specifically refer to the occurrence of the taxon in the Province. Standard references that cite specimens from the Province are not given for each entry but are listed below.

## Standard References


Abrams, L. 1960. Illustrated flora of the Pacific States. 4 vols. (vol. 4 with R.J. Ferris). Stanford University Press.

Booth, W.E. 1950. Flora of Montana. Part I. Conifers and monocots. Resources Foundation. Bozeman: Montana State College. 232 pp.

Booth, W.E. and J.C. Wright. 1959. Flora of Montana. Part II. Bozeman: Montana State University. 305 pp.

Calder, J.A. and R.L. Taylor. 1968. Flora of the Queen Charlotte Islands. Part 1. Systematics of the vascular plants. Research Branch, Canada Department of Agriculture Monograph 4(1). Queen's Printer, Ottawa. xiii + 659 pp.

Eastham, J.W. 1947. Supplement to 'Flora of southern British Columbia'. Victoria: British Columbia Provincial Museum Special Publication 1. Department of Education. 119 pp.

Gleason, H.A. and A. Cronquist. 1963. Manual of Vascular Plants of Northeastern United States and Adjacent Canada. New York: Van Nostrand Reinhold Company.

Henry, J.K. 1915. Flora of southern British Columbia and Vancouver Island. Toronto: W.J. Gage & Co., Ltd. xvi + 363 pp.

Hitchcock, C.L. and A. Cronquist. 1973. Flora of the Pacific Northwest. Seattle: University of Washington Press. xix + 730 pp.

Hitchcock, C.L., A. Cronquist, M. Ownbey and J.W. Thompson. 1955-1969. Vascular plants of the Pacific Northwest. Parts 1-5. Seattle: University of Washington Press.

Hultén, E. 1968. Flora of Alaska and neighboring territories. Stanford University Press. xxii + 1008 pp.

Moss, E.H. 1959. Flora of Alberta. University of Toronto Press. vi + 546 pp.

Munz, P.A. and D. Keck. 1968. A California Flora and Supplement (Combined Edition). Berkeley: University of California Press. 1681 pp. + 724 pp.

Porsild, A.E. and W.J. Cody. 1980. Vascular plants of Continental Northwest Territories, Canada. Ottawa: National Museums of Canada. viii + 667 pp.

Scoggan, H.J. 1957. Flora of Manitoba. Ottawa: National Museums of Canada Bulletin No. 140.

Scoggan, H.J. 1978-1979. The Flora of Canada. Parts 1-4. Ottawa: National Museums of Canada, Publications in Botany 7(1-4).

Taylor, R.L. and B. MacBryde. 1977. Vascular plants of British Columbia: A Descriptive Resource Inventory. Botanical Garden Technical Bulletin #4. Vancouver: University of British Columbia Press. xxiv + 754 pp.

Welsh, S.L. 1974. Anderson's flora of Alaska and adjacent parts of Canada. Provo, Utah: Brigham Young University Press. xvi + 724 pp.

**Map**: References in which there are maps of the taxon in the Province are given.
**Range**: The general distribution for each taxon is given using the following standard postal abbreviations for provinces and states:

| | |
|---|---|
| Alberta | AB |
| British Columbia | BC |
| Manitoba | MB |
| New Brunswick | NB |
| Newfoundland | NF |
| Northwest Territories | NT |
| Nova Scotia | NS |
| Ontario | ON |
| Prince Edward Island | PE |
| Quebec | PQ |
| Saskatchewan | SK |
| Yukon | YT |
| Alabama | AL |
| Alaska | AK |
| Arizona | AZ |
| Arkansas | AR |
| California | CA |
| Colorado | CO |
| Connecticut | CT |
| Delaware | DE |
| District of Columbia | DC |
| Florida | FL |
| Georgia | GA |
| Hawaii | HI |
| Idaho | ID |
| Illinois | IL |
| Indiana | IN |
| Iowa | IA |
| Kansas | KS |
| Kentucky | KY |
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| Nevada | NV |
| New Hampshire | NH |
| New Jersey | NJ |
| New Mexico | NM |
| New York | NY |
| North Carolina | NC |
| North Dakota | ND |
| Ohio | OH |
| Oklahoma | OK |
| Oregon | OR |
| Pennsylvania | PA |
| Rhode Island | RI |
| South Carolina | SC |
| South Dakota | SD |
| Tennessee | TN |
| Texas | TX |
| Utah | UT |
| Vermont | VT |
| Virginia | VA |
| Washington | WA |
| West Virginia | WV |
| Wisconsin | WI |
| Wyoming | WY |

**B.C. Range**: General distribution and specific locations in the Province are listed for each taxon based on herbarium specimens examined. Physiographic subdivisions of the Province follow Holland (1964).
**Biogeoclimatic Zone**: Abbreviations for the biogeoclimatic zones according to Krajina as used in Taylor and MacBryde (1977) are as follows. For a discussion of these zones refer to Beil *et al.* (1976).

Alpine Tundra — AT
Boreal Spruce — BS
Cariboo Aspen-Lodgepole Pine-Douglas Fir — CA
Coastal Douglas Fir — CF
Coastal Western Hemlock — CH
Engelmann Spruce-Subalpine Fir — ES
Interior Douglas Fir — IF
Interior Western Hemlock — IH
Mountain Hemlock — MH
Ponderosa Pine — PP
Subboreal Spruce — SS
Spruce-Willow — SW

**Habitat**: Specific habitat preferences for each taxon are listed.
**Rare Status**: Four categories of rarity within the Province are defined as:

R1 — Single or few populations, composed of few plants
R2 — Several populations, locally common
R3 — Widespread or scattered populations with small numbers of plants
R4 — Restricted distribution, large populations

Distribution maps are included for each taxon in the first two categories of rarity. The dots are based on herbarium specimens we have seen.
**Status Outside B.C.**: When known, the rare status in other provinces and states is given for each taxon. This information is based on publications of rare plant lists for other provinces as mentioned previously and publications of national and state lists as follows: United States (Ayensu and deFilipps 1978), Alabama (Thomas 1976), Alaska (Murray 1980), California (California 1980), Colorado (Weber and Johnston 1976), Connecticut (Mehrhoff 1978), Delaware (Tucker *et al.* 1979), Florida (Ward 1979), Georgia (McCollum 1976), Idaho (Henderson *et al.* 1977), Illinois (Ebinger 1981), Indiana (Bacone

and Hedge 1980), Iowa (Thorne 1953, 1956), Kansas (McGregor 1977), Maine (Eastman 1978), Maryland (Broome *et al.* 1979), Massachusetts (Coddington and Field 1978), Michigan (Good 1980, Wagner *et al.* 1977), Minnesota (Morley 1972), Missouri (Missouri 1974), New Hampshire (Storks and Crow 1978), New Jersey (Snyder and Vivian 1981), New York (Mitchell *et al.* 1980), North Carolina (Hardin *et al.* 1977), North Dakota (North Dakota 1972), Ohio (Ohio 1982, Stuckey and Roberts 1977), Oklahoma (Zanoni *et al.* 1979), Oregon (Siddall *et al.* 1979), Pennsylvania (Wiegman 1979), Rhode Island (Church and Champlin 1978), South Carolina (Rayner *et al.* 1979), South Dakota (Schumacher 1975), Tennessee (Collins *et al.* 1976), Texas (Johnston 1974), Utah (Welsh & Thorne 1979), Vermont (Countryman 1978), Virginia (Porter 1979), Washington (Washington Natural History Heritage Program 1984), West Virginia (Core *s.d.*), Wisconsin (Read 1976) and Wyoming (Clark and Dorn 1981).

It should be noted that a number of the rare plants for British Columbia may have different varieties or subspecies that are rare in other provinces or states or they may be listed under different names. It is not within the scope of this study to provide for an adequate assessment and circumscription of the infraspecific taxa of wide ranging plants. Such studies would require detailed taxonomic study of each plant in question.

**Some Implications of the Programs on Rare Plants**

We are now reaching a point where we have established a set of baseline data regarding most species that we consider rare, threatened or endangered. We may now be in a position to look seriously at how best we can approach the problem of ensuring that we do not lose this important genetic material.

The Province of British Columbia, in 1979, enacted the *Dogwood, Rhododendron and Trillium Protection Act* (British Columbia 1979a) that provides for prohibition, exception and penalty for contravention of three taxa; that is, *Cornus nuttallii* (Western Flowering Dogwood and the Provincial floral emblem), *Rhododendron macrophyllum* (Pacific Rhododendron) and *Trillium ovatum* (Western White Trillium). This Act has had limited success in preventing the destruction or collection of these species. However, only one of these, the *Rhododendron* is rare in the Province.

It is evident from the list of rare plants for British Columbia, that certain parts of the province have more rare plants than others. Serious consideration must be given to the protection of habitats in order to adequately protect and preserve the rare plants found in these habitats. The Province of British Columbia recognized the need for designation of Crown land as ecological reserves by passing the *Ecological Reserve Act* (British Columbia 1979b). The Act included areas (a) suitable for scientific research and educational purposes associated with studies in productivity and other aspects of natural ecosystems within the Province; (b) that are representative examples of natural ecosystems within the Province; (c) that serve as examples of ecosystems that have been modified by man and offer an opportunity to study the recovery of the natural ecosystem from modification; (d) where rare or endangered native plants and animals may be preserved in their natural habitat; and, (e) that contain unique and rare examples of botanical, zoological or geological phenomena. This program has stimulated public awareness for the unique nature of our natural heritage. It is necessary to look more closely at the details of the species that are found within these conserved and other non-conserved habitats in order to achieve better data and an improved understanding as to how habitats can be managed to conserve the species for which we originally set aside the habitats. It is apparent that research is needed about the individual taxa found within these and other threatened habitats. This knowledge is essential if we are going to successfully conserve the genes associated with the individuals in such habitats.

Preservation of rare, threatened and endangered plants species can be achieved *in situ* or they may be preserved artificially. *In situ* preservation of species is by far the most important method of conservation and should take priority over all other types of conservation. Much has been said about the preservation of plant species either through the transplantation of species to suitable natural habitats or the preservation through cultivation in botanical gardens or parks. These methods are stop gap measures. Transplantation to gardens may adversely affect the genetic constitution of the taxon after several generations because of inbreeding and the new selection pressures brought to bear by the new environment. Institutions are not necessarily permanent nor is there any assurance that the genetic constitution of the species will be maintained under cultivated conditions. Nor is it likely that all plant species will even withstand transplantation. Botanical gardens, however, can provide information on the biology of the species to improve *in situ* management in conservation areas. In addition,

techniques can be developed to permit rapid increase of propagules to increase the overall population number in cultivation and thus provide some measure of insurance against depletion or extirpation of the species with the subsequent loss of the unique genetic material.

Government agencies responsible for the preservation of appropriate sites to ensure continuation of species should be encouraged to support programs of preservation of natural habitats. At the same time, such agencies should recognize that by simply setting aside habitats, we may not in the long run save the species that occupy these habitats. Serious consideration should be given to establishing research assistance programs for the study of the individual species within these habitats so that a better understanding of the dynamics of the habitat and the biology of the species can be achieved. We have only just begun the large task of evaluating the role of the species in habitats. Without research support to further biological knowledge about these species, we may actually lose the species that we have tried to preserve!

### Distribution of Rare Plants in the Province

Rare plants are scattered throughout the Province, but there are certain areas especially rich in plant species including rare taxa. The following information is presented according to the major physiographic subdivisions described by Holland (1964).

#### Gulf Islands and Southern Vancouver Island

A great many of our rare plants are at the northern extreme of their distribution occurring in dry rocky areas and in open forests of *Pseudotsuga menziesii, Quercus garryana* and *Arbutus menziesii*, on grassy ocean bluffs and on seasonally wet, mossy rock outcrops. These are the northern extensions of Californian or Puget Trough floristic elements. Among the rare plants found only in these areas are: *Aster curtis, Aster radulinus, Balsamorhiza deltoidea, Camassia leichtlinii, Clarkia amoena, Jaumea carnosa, Linanthus bicolor, Lupinus bicolor, L. polycarpus* and *L. vallicola, Meconella oregana, Microseris biglovii* and *M. lindleyi, Perideridia gairdneri, Orthocarpus attenuatus, Sisyrinchium californicum* and *S. douglasii, Tonella tenella* and *Woodwardia fimbriata*.

#### Dry Interior

Desert areas of the Okanagan and Thompson Highlands characterized by cold winters and hot summers with open hills covered with *Artemisia* species, or parkland of bunchgrasses, *Pinus ponderosa* and *Pseudotsuga menziesii* provide habitats for the northern extensions of many plants found from Washington to California or the Great Basin. Among the many rare plants found only in this part of the Province are: *Artemisia cana, A. lindleyana* and *A. longifolia, Brickellia oblongifolia, Camissonia andina* and *C. breviflora, Clarkia pulchella* and *C. rhomboidea, Erigeron poliospermus, Eriogonum strictum, Haplopappus bloomeri* and *H. carthamoides, Lewisia rediviva, Leptodactylon pungens, Lygodesmia juncea, Oenothera pallida, Sphaeralcea munroana, Talinum okanaganense* and *T. spinescens*.

A few plants extend up both sides of the Cascade Mountains and are found in similar habitats in both of the above regions, including *Gratiola ebracteata, Lotus purshiana* and *Orthocarpus bracteosus*.

#### Vancouver Island Mountains

A few plants are found on Vancouver Island mountains that are extensions of the ranges of those plants found in the Olympic Mountains or from mountain ranges further south. These include *Aster paucicapitatus, Erysimum arenicola, Hedysarum occidentale* and *Orthocarpus imbricatus*.

#### Fraser River Lowlands

This flat river valley, which is now largely under urban development or agricultural land is the northern extreme of a few southern plants including *Deschampsia flexuosa, Elatine triandra, Eupatorium maculatum, Hyrdocotyle verticillata, Myriophyllum hippuroides, Samolus valerandi* and *Wolffia punctata*.

#### Cascade Mountains

This mountain range reaches its northern extreme in southern British Columbia in and around Manning Provincial Park. Here are the northern limits of distribution for such plants as *Calyptridium umbellatum, Elmera racemosa, Epilobium mirabile, Erigeron leibergii, Eriogonum pyrolifolium, Lewisia tweedyi, Luina nardosmia* and *Smelowskia ovalis*.

#### Pacific West Coast

The outer Pacific coast of Vancouver Island, the Queen Charlotte Islands and some other coastal islands provide habitats for a number of more southern West Coast elements which reach their northern limit in the Province. Among these are *Disporum smithii, Lasthenia minor, Myrica californica,*

*Oxalis oregana, Poa kelloggii, Polypodium scouleri* and *Selaginella oregana*.

**Northern Pacific Coast**

The Queen Charlotte Islands and adjacent islands are the southern and eastern extension for a number of northern Pacific Rim species which occur from B.C. north along coastal Alaska, the Aleutian Islands and south to Japan. These include *Cerastium fischerianum, Draba hyperborea, Epilobium hornemannii* subsp. *behringianum, Geum calthifolium, Huperzia selago* var. *miyoshianum* and *Mecodium wrightii*.

**Northern British Columbia**

Here is the southern limit for many circumpolar or circumboreal elements or northern North American elements which extend southward into the Province from the Yukon and Northwest Territories. Unfortunately this is an area not well known or collected except along the Alaska Highway and the few other roads. Among the many plants found in only the northern edge of the Province are: *Carex franklinii* and *C. glacialis, Diapensia lapponica, Kobresia siberica, Ledum palustre, Lupinus kuschei, Penstemon congestus* and *P. gormanii, Primula stricta, Ranunculus pygmaeus* and *R. sulphureus, Saxifraga hirculus, Senecio atropurpureus, S. congestus* and *S. tundricola*.

**Alberta Plateau**

Rolling aspen-covered hillsides, spruce bogs, and patches of prairie in the northeastern part of the Province provide habitats for the following rare plants: *Avenochloa hookeri, Cirsium drummondii, Lomatium foeniculaceum, Oryzopsis canadensis, Penstemon gracilis, Polygala senega, Polypodium virginianum, Prenanthes racemosa, Ranunculus cardiophyllus* and *R. rhomboideus, Salix petiolaris* and *S. serrissima*, and *Sarracenia purpurea*. This northeastern part of the Province is again not well known floristically.

**Southern Rocky Mountains**

A number of plants are found in the Alberta or Montana Rocky Mountains with extensions in their range into extreme southeastern British Columbia. These include *Arnica louiseana* subsp. *louiseana, Calamagrostis montanensis, Delphinium bicolor* and *D. depauperatum, Douglasia montana, Papaver pygmaeum, Phacelia lyallii, Phlox alyssifolia* and *P. hoodii, Plantago canescens, Senecio conterminus, Smelowskia calycina* and *Townsendia exscapa* and *T. parryi*.

**Rare Plants Which Are Widely Distributed in the Province With No Particular Distribution Pattern**

There are a number of rare plants that are not directly related to any specific physiographic area or have no unusual standing in the flora. These have been collected throughout the Province or at widely scattered localities in a large part of the Province but they are rare or may have been overlooked. Others are probably rare, not only in the Province but throughout their ranges. These include *Arabis microphylla, Botrychium lanceolatum, Carex loliaceae, Malaxis monophyllos, Ophioglossum vulgatum, Potamogeton obtusifolius, Primula egaliksensis, Woodsia ilvensis* and *Viburnum opulus*.

**Some Future Considerations**

Much progress has been made in the past two decades towards increasing public awareness of the importance of preserving our unique flora and fauna. The development of appropriate literature and its wide dissemination will continue to make the public more aware of the need for a constant vigilance in the area of conservation. A greater concerted effort should be made to acquaint students at all levels with the importance and unique aspects of our natural heritage. Only through such a coordinated effort with our young people will we effect a change in the overall conservation outlook in the future. Why shouldn't we make every effort to inform as wisely and as intelligently as possible the future politicians and managers of tomorrow? Children have a natural curiosity about their surroundings and we should take advantage of this interest in providing them with scientific information about our rare plants and animals. In this way we will encourage the development of a much more informed populace who will be more cognizant of the values of conservation in relation to their lifestyles.

In addition to an increased activity in the education of our young people, it is time for the government to establish priorities at all levels of funding to enable proper biological studies to be conducted on rare plants and animals. Too often such research is not considered sufficiently important to enable funding agencies to assign priorities to such programs. Unless we make a concerted effort to understand the diverse aspects of our natural gene pools, such information may be lost forever if the species are extirpated. Today's genetic diversity provides the foundation for productive ecosystems.

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# INTRODUCTION

La Colombie-Britannique a une superficie de 94,86 millions d'hectares, soit 366 255 milles carrés, ce qui est plus que la superficie totale de la Californie, de l'Oregon et de l'État de Washington réunis. La topographie de la province est très variée (elle s'étend depuis le niveau de la mer jusqu'à 4 663 m), de même que les régimes climatiques, qui vont de périodes sans gel pouvant durer plus d'un an, jusqu'à une courte saison de croissance (relativement peu de jours) dans les hautes régions alpines. La moyenne des précipitations annuelles varie de 274 cm sur la côte ouest de l'île Vancouver jusqu'à 25 cm seulement dans l'intérieur aride. La province s'étend sur quelque 1 300 km, entre 48°17'34'' et 60°00'09'' de latitude nord, et possède un long littoral marin de 12 150 km et environ 6 500 îles adjacentes.

La province est montagneuse, une grande partie est encore inaccessible et sa végétation fort peu répertoriée. Il y a peu de routes dans la moitié nord et dans les zones côtières très découpées et abruptes. Les patrons de distribution des plantes, lorsqu'ils sont représentés par des cartes, donnent une fausse impression de la distribution réelle, car ils suivent souvent les emprises des voies ferrées ou les routes comme celles de l'Alaska, de Williams Lake à Bella Coola, de Prince George à Prince Rupert, de Stewart à Cassiar et la route Haines dans le nord-ouest de la Colombie-Britannique. Dans une bonne partie de la province, la flore est mal répertoriée et, malheureusement, il y a peu de récoltes actives de nos jours. Presque chaque excursion sur le terrain donne lieu à de nouvelles découvertes, même dans les régions populeuses autour de Vancouver et de Victoria, où les conditions sont les plus difficiles pour les plantes et leurs habitats.

Établir la rareté des plantes en Colombie-Britannique pose un grand problème. Il existe quelque 2 500 espèces de plantes vasculaires, 1 000 bryophytes, plus de 2 000 algues d'eau douce, 500 algues macroscopiques marines, et une flore mycologique de quelque 10 000 taxons, dont plus de 2 000 macromycètes. En outre, il y a environ 1 000 lichens. La présente publication et l'exposé qui suit se limiteront aux plantes vasculaires.

L'ouvrage *Vascular Plants of British Columbia: A Descriptive Resource Inventory*, de Taylor et MacBryde (1977) nous a apporté beaucoup d'éclaircissements sur la flore de la Colombie-Britannique. Il a comblé une grande lacune dans notre connaissance de la flore de l'ouest de l'Amérique du Nord entre l'Alaska, la partie continentale des Territoires du Nord-Ouest, l'Alberta et le nord-ouest des États-Unis le long du Pacifique. Nous nous en sommes inspirés pour le projet d'étude des plantes rares de la Colombie-Britannique et il en sera de même pour nos prochaines études sur la flore de la province.

Parmi les 2 500 espèces représentant quelque 3 100 taxons[1] différents dans la province (Taylor et MacBryde 1977), il existe quelques espèces endémiques, du fait de l'origine de la flore et de son évolution depuis 20 000 ans. Pendant la dernière glaciation, les glaciers recouvraient presque toute la Colombie-Britannique, à l'exception de quelques îlots comme le nord-ouest de l'île Vancouver, notamment la péninsule Brooks (Pojar 1980) et des parties du côté ouest des îles de la Reine-Charlotte (Calder et Taylor 1968). On connaît quatorze taxons endémiques dans la province : *Adiantum pedatum* var. *subpumilum* (Adiante pédalé nain), *Bidens amplissima* (Bident de l'île Vancouver), *Senecio newcombei* (Séneçon de Newcombe), *Ligusticum calderi* (Livèche de Calder), *Cassiope lycopodioides* ssp. *cristapilosa* (Cassiope lycopodioïde), *Limnanthes macounii* (Limnanthe de Macoun), *Isopyrum savilei* (Isopyre de Savile), *Geum schofieldii* (Benoîte de Schofield), *Saxifraga taylori* (Saxifrage de Taylor), *Mimulus guttatus* ssp. *haidensis* (Mimulus jaune de Haida), *Viola biflora* ssp. *carlottae* (Violette biflore de la Reine-Charlotte), *Viola maccabeiana* (Violette de MacCabe), *Trillium ovatum* f. *hibbersonii* (Trille blanc de l'ouest d'Hibberson), et *Calamagrostis purpurascens* ssp. *tasuensis* (Calamagrostide pourpré). La majorité de ces taxons se limitent aux îles de la Reine-Charlotte ou à la péninsule Brooks de l'île Vancouver.

La flore vasculaire présente surtout des affinités géographiques circumpolaires ou s'apparente beaucoup aux espèces cordillières de l'ouest des États-Unis. Certaines espèces côtières présentent des affinités avec celles de l'Amérique du Nord et de l'Amérique du Sud. Les principaux éléments floristiques sont nord-américains, mais les taxons subalpins et alpins ont une aire de répartition plutôt circumboréale.

Il n'existe aucune analyse phytogéographique définitive de la flore provinciale, mais une étude détaillée a été complétée pour 593 taxons de la flore des îles de la Reine-Charlotte (Calder & Taylor 1968). Une étude de mise à jour sur les îles de la Reine-Charlotte effectuée en 1984 indique 611 taxons, dont 20.13 % ont été introduits par l'homme.

[1]soit toutes les espèces et catégories infraspécifiques

L'étude réalisée en 1977 (Taylor & MacBryde) sur la totalité de la flore provinciale a demontré que 21.1 % des taxons ont été introduits.

**L'Élaboration des inventaires des plantes rares**

L'histoire et le développement de la documentation sur les plantes rares en Colombie-Britannique remonte à 1973, la section de taxonomie et de phytogéographie de l'Association canadienne de botanique ayant constitué cette année-là un comité des plantes rares et menacées du Canada. Ce comité a entamé, sous la direction du Dr. George W. Argus des Musées nationaux du Canada, un inventaire sur les plantes rares de chaque province ou territoire qui a donné lieu à la publication de neuf listes provinciales : Ontario (Argus et White 1977), Alberta (Argus & White 1978), Nouvelle-Écosse (Maher *et al.* 1978), partie continentale des Territoires du Nord-Ouest (Cody 1979), Saskatchewan (Maher *et al.* 1979), Manitoba (White et Johnson 1980), Yukon (Douglas *et al.* 1981), Québec (Bouchard *et al.* 1983) et Nouveau-Brunswick (Hinds 1983). D'autres informations ont été publiées pour l'Ontario (Argus et White 1982-1983; Argus et Keddy 1984) et l'Alberta (Packer et Bradley 1984). Le programme définit les situations respectives des plantes à répertorier :

Une plante est dite **rare** lorsqu'elle ne présente qu'une faible population dans la province ou le territoire, soit qu'elle est concentrée dans une aire réduite, soit qu'elle est dispersée dans une vaste région.

Une plante est dite **menacée** s'il est probable qu'elle disparaisse, dans un avenir prévisible, de l'ensemble ou d'une grande partie de l'aire qu'elle occupe dans la province ou le territoire.

Une plante est dite **menacée d'extinction** lorsqu'il y a danger d'éradication dans l'ensemble ou dans une grande partie de l'aire qu'elle occupe dans la province ou le territoire.

Ces définitions sont généralement reconnues dans le monde entier lorsqu'il s'agit de caractériser la situation d'une plante dans une flore. (Les mots **plante, espèce** et **taxon** sont interchangeables dans le texte.)

D'autres études nationales et internationales sont en cours, en même temps que les programmes élaborés par les Musées nationaux du Canada. Le Service canadien de la faune a établi un sous-comité des plantes au sein du programme du Comité sur le statut des espèces menacées d'extinction au Canada. Les responsables de ce programme préparent et examinent systématiquement des rapports sur la situation des espèces rares, menacées et menacées d'extinction en vue de l'élaboration de règlements provinciaux et nationaux à leur sujet. Il s'agit d'un programme à long terme et il faudra un certain temps avant que la plupart des plantes des trois catégories puissent être évaluées et que les mesures de conservation nécessaires soient instaurées.

Sur la scène internationale, l'Union internationale pour la conservation de la nature et de ses ressources a établi un Comité pour la protection des plantes menacées aux Jardins botaniques royaux de Kew. Le secrétaire du Comité s'est occupé activement d'établir un système d'examen en vue d'établir quelles sont les plantes menacées ou menacées d'extinction actuellement cultivées dans les jardins botaniques du monde. Au moyen d'un contrat avec la Smithsonian Institution, le Wildlife Service des États-Unis a publié une liste des espèces de plantes menacées et menacées d'extinction de ce pays (Ayensu et DeFilipps 1978). L'Union internationale pour la conservation de la nature et de ses ressources a publié son *Red Data Book* (Lucas et Synge 1978).

La plupart des grands gouvernements du monde reconnaissent de plus en plus qu'il faut réglementer l'importation, la vente et le transport des espèces menacées et menacées d'extinction. Aussi a-t-on conclu une convention sur le commerce international des espèces de faune et de flore sauvages menacées d'extinction, dont le Canada est l'un des signataires.

**Le Programme des plantes rares de la Colombie-Britannique**

En 1977, sous les auspices du Jardin botanique de l'Université de la Colombie-Britannique, s'est formé un petit comité représentant divers organismes et groupes d'amateurs qui s'intéressent à la protection des plantes. Le comité a commencé une étude détaillée des plantes rares de la Colombie-Britannique, en coopération avec le programme des Musées nationaux du Canada. En outre, le service de conservation de la nature du Washington State National Heritage Program fut invité à participer et est resté depuis lors en liaison avec le comité.

La première tâche du comité fut d'établir une liste provisoire des plantes rares de la province. La détermination des espèces menacées ou menacées d'extinction fut laissée en suspens jusqu'à ce que la liste soit terminée. Le comité a établi les quatre catégories de rareté suivantes :

R1 — taxons de plantes représentés par une seule population ou quelques populations connues, chacune étant normalement constituée de quelques individus seulement. Par exemple, *Cephalanthera austinae* ne compte dans la province que six populations de quelques individus (Fig. 1a).

R2 — taxons de plantes qui comptent peu ou quelques populations, dont la plupart comprennent cependant un nombre relativement grand d'individus. Par exemple, *Erythronium montanum* est une espèce de plante représentée dans la province par quatre populations connues, mais dont chacune compte un grand nombre d'individus (Fig. 1b).

R3 — taxons de plantes sans aire de répartition géographique distincte, habituellement dispersées dans la province et représentées par des populations isolées formées d'un petit nombre de plantes. *Primula egaliksensis* en est un exemple (Fig. 1c).

R4 — taxons de plantes dont la répartition générale est limitée dans la province et qui sont situés à la limite de leur aire de répartition, plus répandue soit vers le sud ou vers le nord. Les populations comptent souvent de nombreux individus, mais leur aire de répartition géographique est étroite dans la province. *Xerophyllum tenax* en est un exemple (Fig. 1d).

Évidemment, toutes les catégories de rareté présentent quelques points communs et nous manquons d'information sur certaines plantes pour les classer précisément dans une catégorie. Les spécimens d'herbier ne donne souvent aucune information sur l'étendue de la population. Par ailleurs, celle-ci peut être très faible dans un lieu et forte ailleurs.

Un des problèmes qui se posait lorsque le comité a établi ces diverses catégories consistait à éviter de limiter exagérément sa perception de la province. Les botanistes qui étudient les basses terres continentales de la Colombie-Britannique tendent souvent à sous-estimer l'importance du reste de la province à propos de la répartition des plantes. Lorsqu'on détermine la rareté et la répartition d'un taxon, il importe de tenir compte de toute l'aire géographique de la province. Les espèces qui poussent dans une région relativement petite de la province peuvent très bien se classer dans la catégorie des plantes à forte population, mais à répartition limitée (R4). Les études de notre comité ont indiqué que 816 plantes peuvent être classées comme rares en Colombie-Britannique. La liste tend à être inclusive plutôt qu'exclusive, car les informations sur certaines plantes peuvent être incomplètes. Nous espérons que l'accumulation de nouvelles informations et connaissances sur les plantes de la province permettront d'épurer la liste; par conséquent, nous avons inclus plutôt trop que trop peu de taxons.

Nous avons voulu que l'emplacement réel des plantes rares ne soit pas généralement connu, surtout pour les taxons des catégories R1 et R2. Aussi, avons-nous choisi de ne désigner les emplacements que par le nom du bureau de poste le plus proche, afin d'essayer de protéger les plantes contre une exploitation indue par des gens peu soucieux de protéger la nature. Nous conserverons dans nos dossiers, aux fins de recherche et de référence, des renseignements détaillés sur l'emplacement réel des plantes.

L'élaboration de la base de données pose quelques problèmes graves. En premier lieu, il est difficile d'assurer une identification précise des plantes. Nous avons retenu les services de nombreux spécialistes en botanique pour examiner et identifier avec précision les taxons cités. En second lieu, la répartition des plantes fait souvent l'objet d'une documentation insuffisante. Nous favorisons la préparation de nouveaux spécimens d'herbier en autant qu'elle ne mette pas en péril la population naturelle de plantes. Il ne faut pas effectuer de prélèvements sur les petites populations actuelles de plantes rares pour lesquelles il existe déjà des spécimens d'herbier. Dans certains cas, les collectionneurs de plantes figurent parmi ceux qui font les plus grands ravages en réduisant les populations naturelles de plantes simplement parce qu'ils n'ont pas pris le temps de vérifier s'il existait déjà une documentation pertinente sur les spécimens recueillis.

Nous avons dû aussi résoudre le problème que pose l'inclusion de taxons infraspécifiques, c'est-à-dire les sous-espèces, variétés et formes. Comme bon nombre de nos populations en Colombie-Britannique sont des sous-espèces ou des variétés d'espèces plus répandues en Amérique du Nord ou dans la région circumboréale, nous croyons utile de signaler les taxons qui ont cette caractéristique. Du point de vue de la recherche, il importe de savoir si nous avons affaire à une ressource génétique distincte, de l'espèce nominale ou d'un élément infraspécifique. La reconnaissance de ces taxons peut être importante, à la fois pour les futurs programmes de reproduction destinés à produire de nouvelles lignées pour l'horticulture ou l'agronomie, et pour mieux comprendre la biologie et la systématique des espèces. Aussi, avons-nous

a. R1 — Cephalanthera austinae

b. R2 — Erythronium montanum

c. R3 — Primula egaliksensis

d. R4 — Xerophyllum tenax

Figure 1. Exemples de répartition des plantes illustrant les quatre catégories de rareté employées dans le Programme des plantes rares de Colombie-Britannique .

choisi d'inclure les taxons infraspécifiques dans notre liste de plantes rares.

Nous savons également que la nomenclature et la taxonomie des groupes de plantes sont constamment en cours de révision et que les noms changent parfois. Nous avons décidé qu'en général, la nomenclature serait conforme à celle de *Vascular Plants of British Columbia* (Taylor et MacBryde 1977). À mesure que seront publiées de nouvelles études taxonomiques, il faudra modifier la liste en conséquence.

**Présentation d'une inscription**

Tous les taxons sont inscrits dans l'ordre alphabétique. Chaque inscription comporte plusieurs ou l'ensemble des 12 rubriques suivantes :

**Nom scientifique et auteur** : La plupart des noms sont conformes à ceux de Taylor et MacBryde (1977). Dans certains cas, surtout lorsque certains groupes ont fait l'objet d'études taxonomiques récentes, nous avons choisi d'employer d'autres appellations ou de nous inspirer de l'ouvrage de Kartesz et Kartesz (1980).

**Synonymes** : Les synonymes ne sont donnés que lorsqu'un taxon est fréquemment désigné par un ou plusieurs autres noms. Nous n'essayons pas de mentionner tous les synonymes que l'on trouve dans la plupart des ouvrages courants sur la flore.

**Nom vulgaire** : Si possible, nous donnons pour chaque taxon un nom vulgaire, le plus souvent conforme à la terminologie de Taylor et MacBryde (1977).

**Herbiers** : Les acronymes, inspirés de Stafleu (1981), correspondent aux herbiers suivants dont nous avons étudié des spécimens provenant de la province, ou pour lesquels il existe une citation récente des spécimens dans la littérature : station de recherches d'Agriculture Canada à Kamloops (ACK), Université de l'Alberta à Edmonton (ALTA), Herbier national du Canada à Ottawa (CAN), Institut de recherches biosystématiques, Agriculture Canada à Ottawa (DAO), Field Museum à Chicago (F), Douglas Ecological Consultants à Duncan (GD), Gray Herbarium, Harvard University à Cambridge (GH), University of Michigan à Ann Arbor (MICH), Missouri Botanical Garden à St. Louis (MO), New York Botanical Garden à New York (NY), Université de Toronto (TRT), Université de la Colombie-Britannique à Vancouver (UBC), University of California à Berkeley (UC), United States National Herbarium, Smithsonian Institution à Washington (US), Université de Victoria (UVIC), Musée provincial de la Colombie-Britannique à Victoria (V), Washington State University à Pullman (WS), University of Washington à Seattle (WTU), University of Western Washington à Bellingham (WWB). Des sigles ont été attribués arbitrairement aux herbiers suivants qui ne figurent pas dans Stafleu (1981) : ministère de l'Agriculture de la Colombie-Britannique à Vancouver (B.C.D.A.V.), ministère des Forêts de la Colombie-Britannique à Williams Lake (W.L.), laboratoire fédéral de phytopathologie à Summerland (D.L.P.P.S.), et ministère de l'Environnement à Kelowna (M.O.E.K.).

**Références** : Nous donnons celles qui se rapportent expressément à la présence du taxon dans la province. Les références générales qui mentionnent des spécimens de la province ne sont pas données pour chaque inscription, mais figurent ci-après.

## Références générales


Abrams, L. 1960. Illustrated flora of the Pacific States. 4 vols. (vol. 4 with R.J. Ferris). Stanford University Press.

Booth, W.E. 1950. Flora of Montana. Part I. Conifers and monocots. Resources Foundation. Bozeman: Montana State College. 232 pp.

Booth, W.E. et J.C. Wright. 1959. Flora of Montana. Part II. Bozeman: Montana State University. 305 pp.

Calder, J.A. et R.L. Taylor. 1968. Flora of the Queen Charlotte Islands. Part 1. Systematics of the vascular plants. Research Branch, Canada Department of Agriculture Monograph 4(1). Queen's Printer, Ottawa. xiii + 659 pp.

Eastham, J.W. 1947. Supplement to 'Flora of southern British Columbia'. Victoria: British Columbia Provincial Museum Special Publication 1. Department of Education. 119 pp.

Gleason, H.A. et A. Cronquist. 1963. Manual of Vascular Plants of Northeastern United States and Adjacent Canada. New York: Van Nostrand Reinhold Company.

Henry, J.K. 1915. Flora of southern British Columbia and ancouver Island. Toronto: W.J. Gage & Co., Ltd. xvi + 363 pp.

Hitchcock, C.L. et A. Cronquist. 1973. Flora of the Pacific Northwest. Seattle: University of Washington Press. xix + 730 pp.

Hitchcock, C.L., A. Cronquist, M. Ownbey et J.W. Thompson. 1955-1969. Vascular plants of the Pacific Northwest. Parts 1-5. Seattle: University of Washington Press.

Hultén, E. 1968. Flora of Alaska and neighboring territories. Stanford University Press. xxii + 1008 pp.

Moss, E.H. 1959. Flora of Alberta. University of Toronto Press. vi + 546 pp.

Munz, P.A. et D. Keck. 1968. A California Flora and Supplement (Combined Edition). Berkeley: University of California Press. 1681 pp. + 724 pp.

Porsild, A.E. et W.J. Cody. 1980. Vascular plants of Continental Northwest Territories, Canada. Ottawa: National Museums of Canada. viii + 667 pp.

Scoggan, H.J. 1957. Flora of Manitoba. Ottawa: National Museums of Canada Bulletin No. 140.

Scoggan, H.J. 1978-1979. The Flora of Canada. Parts 1-4. Ottawa: National Museums of Canada, Publications in Botany 7(1-4).

Taylor, R.L. et B. MacBryde. 1977. Vascular plants of British Columbia: A Descriptive Resource Inventory. Botanical Garden Technical Bulletin #4. Vancouver: University of British Columbia Press. xxiv + 754 pp.

Welsh, S.L. 1974. Anderson's flora of Alaska and adjacent parts of Canada. Provo, Utah: Brigham Young University Press. xvi + 724 pp.

**Carte** : Certaines sources renferment des cartes sur la répartition du taxon dans la province.
**Distribution générale** : L'aire de répartition géographique de chaque taxon se fonde sur les abréviations postales courantes correspondant aux provinces et aux états :

| | |
|---|---|
| Alberta | AB |
| Colombie-Britannique | BC |
| Île-du-Prince-Édouard | PE |
| Manitoba | MB |
| Nouveau-Brunswick | NB |
| Ontario | ON |
| Terre-Neuve | NF |
| Nouvelle-Écosse | NS |
| Québec | PQ |
| Saskatchewan | SK |
| Territoires du Nord-Ouest | NT |
| Yukon | YT |
| Alabama | AL |
| Alaska | AK |
| Arizona | AZ |
| Arkansas | AR |
| Californie | CA |
| Caroline du Nord | NC |
| Caroline du Sud | SC |
| Colorado | CO |
| Connecticut | CT |
| Dakota du Nord | ND |
| Dakota du Sud | SD |
| Delaware | DE |
| District de Columbia | DC |
| Floride | FL |
| Géorgie | GA |
| Hawaii | HI |
| Idaho | ID |
| Illinois | IL |
| Indiana | IN |
| Iowa | IA |
| Kansas | KS |
| Kentucky | KY |
| Louisiane | LA |
| Maine | ME |
| Maryland | MD |
| Massachusetts | MA |
| Mexique | MX |
| Michigan | MI |
| Minnesota | MN |
| Mississippi | MS |
| Missouri | MO |
| Montana | MT |
| Nebraska | NE |
| Nevada | NV |
| New Hampshire | NH |
| New Jersey | NJ |
| Nouveau-Mexique | NM |
| New York | NY |
| Ohio | OH |
| Oklahoma | OK |
| Oregon | OR |
| Pennsylvanie | PA |
| Rhode Island | RI |
| Tennessee | TN |
| Texas | TX |
| Utah | UT |
| Vermont | VT |
| Virginie | VA |
| Virginie-Occidentale | WV |
| Washington | WA |
| Wisconsin | WI |
| Wyoming | WY |

**Distribution générale** : L'aire de répartition géographique et les emplacements particuliers dans la province sont mentionnés pour chaque taxon selon les spécimens d'herbier examinés. Les subdivisions physiographiques de la province sont celles de Holland (1964).

**Zone biogéoclimatique** : Voici les abréviations des zones biogéoclimatiques établies par Krajina et employées par Taylor et MacBryde (1977). Un exposé sur ces zones figures dans Beil *et al.* (1976).

Toundra alpine — AT
Épinette boréale — BS
Tremble — Pin lodgepole — Sapin de Douglas du Cariboo — CA
Sapin de Douglas côtier — CF
Pruche de l'ouest côtière — CH
Épinette d'Engelmann — Sapin de l'Ouest — ES
Sapin de Douglas de l'intérieur — IF
Pruche de l'Ouest de l'intérieur — IH
Pruche de Mertens — MH
Pin ponderosa — PP
Épinette sous-boréale — SS
Épinette-saule — SW

**Habitat** : Les habitats propres à chaque taxon sont énumérés.

**Rareté** : Les quatre catégories de rareté dans la province sont définies ainsi :

R1 — Une ou quelques populations, composées de quelques plantes

R2 — Plusieurs populations, localement répandues

R3 — Populations répandues ou dispersées, comptant chacune un petit nombre de plantes

R4 — Distribution limitée, fortes populations

Des cartes de distribution illustrent chaque taxon des deux premières catégories de rareté. Les points correspondent aux spécimens d'herbier que nous avons vus.

**Rareté hors de la C.-B.** : Lorsqu'elle est connue, la rareté des plantes dans d'autres provinces et États est stipulée pour chaque taxon. Cette information se fonde sur des listes publiées de plantes rares d'autres provinces, comme nous l'avons déjà mentionné, et sur les listes nationales et des États qui suivent : États-Unis (Ayensu et deFilipps 1978), Alabama (Thomas 1976), Alaska (Murray 1980), Californie (California 1980), Colorado (Weber et Johnston 1976), Connecticut (Mehrhoff 1978), Delaware (Tucker *et al.* 1979), Floride (Ward 1979), Géorgie (McCollum 1976), Idaho (Henderson *et al.* 1977), Illinois (Ebinger 1981), Indiana (Bacone et Hedge 1980), Iowa (Thorne 1953, 1956), Kansas (McGregor 1977), Maine (Eastman 1978), Maryland (Broome *et al.* 1979), Massachusetts (Coddington et Field 1978), Michigan (Good 1980, Wagner *et al.* 1977), Minnesota (Morley 1972), Missouri (Missouri 1974), New Hampshire (Storks et Crow 1978), New Jersey (Snyder et Vivian 1981), New York (Mitchell *et al.* 1980), Caroline du Nord (Hardin *et al.* 1977), Dakota du Nord (North Dakota 1972), Ohio (Ohio 1982, Stuckey et Roberts 1977), Oklahoma (Zanoni *et al.* 1979), Oregon (Siddall *et al.* 1979), Pennsylvanie (Wiegman 1979), Rhode Island (Church et Champlin 1978), Caroline du Sud (Rayner *et al.* 1979), Dakota du Sud (Schumacher 1975), Tennessee (Collins *et al.* 1976), Texas (Johnston 1974), Utah (Welsh et Thorne 1979), Vermont (Countryman 1978), Virginie (Porter 1979), Washington (Washington Natural History Heritage Program 1984), Virginie-Occidentale (Core *s.d.*), Wisconsin (Read 1976) et Wyoming (Clark et Dorn 1981).

Il faut noter qu'un certain nombre de plantes rares de la Colombie-Britannique peuvent posséder diverses variétés ou sous-espèces qui sont rares dans d'autres provinces ou États ou qui portent peut-être d'autres noms. La présente étude ne prétend pas évaluer et répertorier tous les taxons infraspécifiques des plantes à grande dispersion, car il faudrait alors effectuer une étude taxonomique détaillée de chacune de ces plantes.

**Quelques effets des programmes sur les plantes rares**

À l'heure actuelle, nous avons établi un ensemble de données de base sur la plupart des espèces que nous considérons comme rares, menacées ou menacées d'extinction. Nous sommes peut-être en mesure d'examiner sérieusement le meilleur moyen d'aborder le problème que pose la conservation de cet important matériel génétique.

La province de la Colombie-Britannique a voté en 1979 une loi appelée *Dogwood, Rhododendron and Trillium Protection Act* (British Columbia 1979a), qui comporte des mesures d'interdiction, d'exception et de pénalisation en ce qui concerne trois taxons : *Cornus nuttallii* (Cournouiller du Pacifique, emblème floral de la province), *Rhododendron macrophyllum* (Rhododendron à grandes feuilles) et *Trillium ovatum* (Trille blanc de l'Ouest). Cette loi a eu un succès limité quant à la prévention de la destruction ou du prélèvement de ces espèces. Toutefois, une seule d'entre elles, le *Rhododendron*, est rare dans la province.

D'après la liste des plantes rares de la Colombie-Britannique, certaines parties de la province en comptent manifestement plus que d'autres. Il faut s'occuper sérieusement de protéger les habitats pour protéger et préserver les plantes rares qui s'y trouvent. La province de la Colombie-Britannique a reconnu la nécessité de transformer en réserves écologiques des terres de la Couronne, en adoptant l'*Ecological Reserve Act* (British Columbia, 1979b). Cette loi prévoyait a) des régions propres à la recherche scientifique et aux activités éducatives concernant les études de productivité et d'autres aspects des écosystèmes naturels de la province; b) des régions représentatives des écosystèmes naturels de la province; c) des régions caractérisées par des écosystèmes modifiés par l'homme et donnant l'occasion d'étudier la régénération de l'écosystème naturel après la modification; d) des régions où la flore et la faune indigènes rares ou menacées d'extinction pourront être préservées dans leur habitat naturel; et e) des régions qui renferment des exemples exceptionnels et rares de phénomènes botaniques, zoologiques ou géologiques. Ce programme a sensibilisé davantage le public à la nature exceptionnelle de notre patri-

moine naturel. Il faut étudier plus attentivement les détails des espèces qu'on trouve dans ces habitats conservés ou non, pour compléter nos informations et mieux comprendre comment les habitats peuvent être protégés de façon à conserver les espèces pour lesquelles nous les avons initialement choisis. Cette recherche est manifestement nécessaire en ce qui concerne les taxons individuels qu'on trouve en ces lieux et dans d'autres habitats menacés. Cette connaissance nous est indispensable pour préserver les gènes associés aux individus de ces habitats.

La préservation des espèces rares, menacées ou menacées d'extinction peut se faire sur place ou de manière artificielle. La préservation sur place des espèces est de loin la méthode de conservation la plus importante et doit avoir priorité sur tous les autres types de conservation. On a beaucoup parlé de la préservation des espèces de plantes soit par leur transplantation dans des habitats naturels appropriés, soit par leur culture dans des jardins botaniques ou des parcs. Ces méthodes sont des palliatifs. La transplantation dans des jardins peut nuire à la constitution génétique du taxon après plusieurs générations, à cause de l'intraculture et des nouvelles pressions sélectives exercées par le nouvel environnement. Les établissements ne sont pas nécessairement permanents, et d'autre part, on n'est pas sûr que la constitution génétique de l'espèce sera maintenue dans ces conditions. De plus, certaines plantes ne supporteront sans doute pas la transplantation. Cependant, les jardins botaniques peuvent donner des informations sur la biologie des espèces afin d'améliorer l'aménagement sur place des aires de conservation. En outre, on peut élaborer des techniques pour favoriser l'augmentation rapide des propagules en vue d'accroître la population totale dans la culture et ainsi de protéger quelque peu l'espèce contre l'épuisement ou l'éradication, et la perte subséquente d'un matériel génétique unique.

Les organismes gouvernementaux chargés de protéger les emplacements appropriés à la conservation des espèces doivent être encouragés à appuyer les programmes de préservation des habitats naturels. Simultanément, ces organismes devraient reconnaître que le simple fait d'isoler des habitats ne nous permettrait pas nécessairement, à la longue, de sauver les espèces qui les occupent. Il faut envisager sérieusement d'établir des programmes d'aide à la recherche pour étudier les espèces qui peuplent ces habitats, afin de mieux faire comprendre la dynamique de l'habitat et la biologie des espèces. Nous avons à peine entrepris la lourde tâche d'évaluer le rôle des espèces dans les habitats. Sans aucun soutien pour la recherche sur les connaissances biologiques de ces espèces, nous risquons de perdre celles que nous avons essayé de préserver !

## Distribution des plantes rares dans la province

Les plantes rares sont dispersées dans toute la province, mais dans certaines régions elles y sont particulièrement abondantes. Les informations suivantes se fondent sur les grandes divisions physiographiques décrites par Holland (1964).

### Îles du Golfe et Sud de l'Île Vancouver

Beaucoup de nos plantes rares poussent dans l'extrême nord de leur aire de répartition, dans des régions rocheuses sèches et des forêts claires de *Pseudotsuga menziesii, Quercus garryana* et *Arbutus menziesii*, sur les caps herbeux et sur les affleurements de roc moussus, humides en certaines saisons. Il s'agit de prolongations septentrionales d'éléments floristiques de Californie ou de la dépression Puget. Parmi les plantes rares qu'on ne trouve que dans ces régions figurent : *Aster curtis, Aster radulinus, Balsamorhiza deltoidea, Camassia leichtlinii, Clarkia amoena, Jaumea carnosa, Linanthus bicolor, Lupinus bicolor, L. polycarpus* et *L. vallicola, Meconella oregana, Microseris biglovii* et *M. lindleyi, Perideridia gairdneri, Orthocarpus attenuatus, Sisyrinchium californicum* et *S. douglasii, Tonella tenella* et *Woodwardia fimbriata*.

### Intérieur aride

Les zones désertiques des hautes terres de l'Okanagan et de la Thompson, caractérisées par des hivers froids et des étés très chauds, aux collines ouvertes recouvertes d'espèces d'*Artemisia*, ou aux forêts-parcs de Schizachyrium à balais, de *Pinus ponderosa* et de *Pseudotsuga menziesii*, fournissent des habitats aux populations septentrionales de nombreuses plantes qu'on trouve de Washington jusqu'en Californie ou au Grand Bassin. Parmi les nombreuses plantes rares qu'on ne trouve que dans cette partie de la province figurent : *Artemisia cana, A. lindleyana* et *A. longifolia, Brickellia oblongifolia, Camissonia andina* et *C. breviflora, Clarkia pulchella* et *C. rhomboidea, Erigeron poliospermus, Eriogonum strictum, Haplopappus bloomeri* et *H. carthamoides, Lewisia rediviva, Leptodactylon pungens, Lygodesmia juncea, Oenothera pallida, Sphaeralcea munroana, Talinum okanaganense* et *T. spinescens*.

Quelques plantes s'étendent des deux côtés de

la chaîne des Cascades et se trouvent dans des habitats similaires dans ces deux régions, par exemple *Gratiola ebracteata, Lotus purshiana* et *Orthocarpus bracteosus*.

**Montagnes de l'île Vancouver**

Les montagnes de l'île Vancouver renferment quelques plantes situées à l'extrémité de leur aire de répartition se retrouvant surtout dans les monts Olympic ou d'autres chaînes de montagnes plus au sud. Exemples : *Aster paucicapitatus, Erysimum arenicola, Hedysarum occidentale* et *Orthocarpus imbricatus*.

**Basses terres du Fraser**

Cette plate vallée fluviale, qui fait maintenant largement l'objet de développements urbains ou agricoles, constitue la partie septentrionale extrême de l'aire de répartition de quelques plantes du sud, dont *Deschampsia flexuosa, Elatine triandra, Eupatorium maculatum, Hydrocotyle verticillata, Myriophyllum hippuroides, Samolus valerandi* et *Wolffia punctata*.

**Chaîne des Cascades**

L'extrémité nord de cette chaîne se trouve dans le sud de la Colombie-Britannique, dans le parc provincial Manning et aux environs. Ici se trouve la limite septentrionale de l'aire de distribution de plantes comme *Calyptridium umbellatum, Elmera racemosa, Epilobium mirabile, Erigeron leibergii, Eriogonum pyrolifolium, Lewisia tweedyi, Luina nardosmia* et *Smelowskia ovalis*.

**Côte ouest du Pacifique**

La côte extérieure de l'île Vancouver, les îles de la Reine-Charlotte et quelques autres îles côtières fournissent des habitats à plusieurs autres éléments du sud de la côte ouest, dont l'aire de répartition s'étend jusque dans la province : *Disporum smithii, Lasthenia minor, Myrica californica, Oxalis oregana, Poa kelloggii, Polypodium scouleri, Selaginella oregana*.

**Côte nord du Pacifique**

Les îles de la Reine-Charlotte et les îles adjacentes prolongent, au sud et à l'est, l'aire de répartition de plusieurs espèces du nord de la ceinture du Pacifique qui poussent depuis la C.-B. vers le nord jusqu'à la côte de l'Alaska, aux îles Aléoutiennes, et vers le sud jusqu'au Japon : *Cerastium fischerianum, Draba hyperborea, Epilobium hornemannii* spp. *behringianum, Geum calthifolium, Huperzia selago* var. *miyoshianum* et *Mecodium wrightii*.

**Nord de la Colombie-Britannique**

Cette région est la limite sud de nombreux éléments circumpolaires et circumboréaux ou d'éléments du nord de l'Amérique du Nord qui s'étendent vers le sud jusque dans la province à partir du Yukon et des Territoires du Nord-Ouest. Elle est malheureusement mal connue et mal répertoriée, sauf le long de la route de l'Alaska et des rares autres routes. Parmi les nombreuses plantes qui ne poussent que dans la partie septentrionale de la province figurent : *Carex franklinii* et *C. glacialis, Diapensia lapponica, Kobresia siberica, Ledum palustre, Lupinus kuschei, Penstemon congestus* et *P. gormanii, Primula stricta, Ranunculus pygmaeus* et *R. sulphureus, Saxifraga hirculus, Senecio atropurpureus, S. congestus* et *S. tundricola*.

**Plateau de l'Alberta**

Les collines couvertes de trembles, les tourbières à épinettes et certaines prairies du nord-est de la province fournissent des habitats aux plantes rares suivantes : *Avenochloa hookeri, Cirsium drummondii, Lomatium foeniculaceum, Oryzopsis canadensis, Penstemon gracilis, Polygala senega, Polypodium virginianum, Prenanthes racemosa, Ranunculus cardiophyllus* et *R. rhomboideus, Salix petiolaris* et *S. serrissima*, et *Sarracenia purpurea*. La flore de cette partie nord-est de la province est elle aussi mal connue.

**Sud des Rocheuses**

Les Rocheuses de l'Alberta ou du Montana renferment plusieurs plantes dont l'aire de répartition se prolonge dans l'extrême sud-est de la Colombie-Britannique : *Arnica louiseana* spp. *louiseana, Calamagrostis montanensis, Delphinium bicolor* et *D. depauperatum, Douglasia montana, Papaver pygmaeum, Phacelia lyallii, Phlox alyssifolia* et *P. hoodii, Plantago canescens, Senecio conterminus, Smelowskia calycina* et *Townsendia exscapa* et *T. parryi*.

**Plantes rares largement distribuées dans la province sans aire de distribution particulière**

Il existe un certain nombre de plantes rares non directement liées à une région physiographique précise ou sans situation particulière dans la flore. Elles ont été prélevées dans toute la province ou dans les localités très dispersées d'une grande partie de la province, mais elles sont rares ou ont pu passer inaperçues. D'autres sont probablement rares, non seulement dans la province mais dans

toute leur aire de répartition : *Arabis microphylla, Botrychium lanceolatum, Carex loliaceae, Malaxis monophyllos, Ophioglossum vulgatum, Potamogeton obtusifolius, Primula egaliksensis, Woodsia ilvensis* et *Viburnum opulus*.

**Quelques considérations pour l'avenir**

On a fait beaucoup de progrès depuis vingt ans pour sensibiliser le public à l'importance de préserver notre flore et notre faune exceptionnelles. L'établissement d'une documentation appropriée et sa large distribution continueront à mieux faire connaître au public la nécessité d'une constante vigilance en ce qui concerne la protection de la nature. Un plus grand effort concerté s'impose pour faire connaître aux élèves de tous les niveaux l'importance et les aspects exceptionnels de notre patrimoine naturel. C'est seulement ainsi que nous pourrons modifier les perspectives en matière de protection de la nature. Pourquoi ne pas s'efforcer d'informer le plus sagement et intelligemment possible les politiciens et les gestionnaires de demain ? Les enfants éprouvent une curiosité naturelle pour leur milieu et il faudrait profiter de cet intérêt pour leur fournir des informations scientifiques sur nos plantes et animaux rares. Nous favoriserons ainsi le développement d'une population beaucoup mieux informée et plus au courant des valeurs de la protection de la nature par rapport à leurs modes de vie.

En plus d'éduquer davantage nos jeunes, il est temps que le gouvernement établisse des priorités à tous les niveaux de financement afin que l'on puisse effectuer des études biologiques sur les plantes et animaux rares. Trop souvent, ces recherches ne sont pas considérées comme suffisamment importantes pour que les organismes de financement leur accordent priorité. À moins d'un effort concerté pour comprendre les divers aspects des bassins génétiques de notre milieu naturel, ces informations peuvent disparaître pour toujours si les espèces sont éradiquées. L'actuelle diversité génétique forme la base d'écosystèmes productifs.

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# LIST OF THE RARE VASCULAR PLANTS OF BRITISH COLUMBIA
# LISTE DES PLANTES VASCULAIRES RARES DE LA COLOMBIE-BRITANNIQUE

**Abronia latifolia** Eschsch.
Yellow Sand-verbena
HERBARIA: DAO, UBC, V
MAP: Calder and Taylor 1968, Tillett 1967
RANGE: Southwestern BC to s CA
BC RANGE: Coastal BC (Tlell, Guise Bay, Victoria, Saanichton, Long Beach, Ucluelet, Comox, Cadboro Bay, Denman Island, Sidney, Stubb's Island)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal beaches and dunes
RARE STATUS: R4

**Abronia umbellata** Lam. subsp. **acutalata** (Standl.) Tillett
Pink Sand-verbena
HERBARIA: CAN, UBC, V, WS, WTU
MAP: Tillett 1967
RANGE: BC to Baja CA
BC RANGE: Estevan Coastal Plain; Nanaimo Lowland (Pachena Bay, Ahousat, Victoria)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal beaches and dunes
RARE STATUS: R1
STATUS OUTSIDE BC: Possibly extirpated in WA

**Adiantum capillus-veneris** L.
Southern Maidenhair Fern
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Brunton 1983a, Taylor 1971
MAP: Brunton 1983a, Taylor 1971
RANGE: Eurasia; FL to TX and CA, north to se BC, UT and SD; VA
BC RANGE: Columbia River Valley (Fairmont Hot Springs)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Near small streams from the hot springs
RARE STATUS: R1; designated as endangered by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) in 1984
STATUS OUTSIDE BC: rare in CO

**Adiantum pedatum** L. var. **subpumilum** W.H. Wagner & Boydston
Dwarf Maidenhair Fern
HERBARIA: MICH, UBC, V
REFERENCE: Wagner and Boydston 1978
RANGE: Coastal BC
BC RANGE: Vancouver Island (Brooks Peninsula, Lovett Island, Tsusiat Falls)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Wet ocean cliffs just above high-tide line
RARE STATUS: R1
NOTE: Endemic to BC

**Adoxa moschatellina** L.
Moschatel
HERBARIA: CAN, DAO, SFUV, UBC, V
REFERENCE: Hamet-Ahti 1965, Porsild and Crum 1961
MAP: Hultén 1968, Hulten 1971, Porsild 1966
RANGE: Circumpolar, south in North America to BC, NM, SK, IL and NY
BC RANGE: Northern and c BC (Liard Hot Springs, Wells Gray Park, Haines Road, Stewart-Watson Lake Road, Bennett, Gladys Lake area, Hazelton, Taylor Flats, Klastline Plateau, More Creek)
BIOGEOCLIMATIC ZONE: BS, IH
HABITAT: Moist mossy places in mountain forests
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in SK, MB, ON, Continental NT, IL, IA, NY, endangered in CO, SD, WI

**Agastache urticifolia** (Benth.) Kuntze
Nettle-leaved Giant-hyssop
HERBARIA: CAN, UBC, V
RANGE: Southeast BC and w MT to CO and CA
BC RANGE: Thompson Plateau, Okanagan Highland, Monashee Mtns. (Rossland, Cascade, Greenwood, Okanagan Falls, Osoyoos area)
BIOGEOCLIMATIC ZONE: IH, IF, PP
HABITAT: Open slopes and draws
RARE STATUS: R1

**Agrimonia gryposepala** Wallr.
Common Agrimony
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1973
MAP: Taylor 1973
RANGE: BC to NF, south to CA, AZ, MO, TN and NC
BC RANGE: Fraser Lowland; Skagit Range; Shuswap Highland; Thompson Plateau; Selkirk Mtns.; Purcell Mtns. (Agassiz, Cheam Lake, Nicomen Island, Tappen, Armstrong, Creston, Hammond)
BIOGEOCLIMATIC ZONE: IH, IF, CF, CH
HABITAT: Thickets, edge of woods, well-drained soil
RARE STATUS: R2

**Agrimonia striata** Michx.
Grooved Agrimony
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1973
MAP: Taylor 1973
RANGE: BC to NF, south to AZ, NM, NE, OH and WV
BC RANGE: Hazelton and s BC valleys (Kelowna, Vernon, Creston, Revelstoke)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Woods, well-drained soil
RARE STATUS: R3

**Agrostis diegoensis** Vasey
Thin Bent Grass
HERBARIA: CAN, UBC, V
REFERENCE: Janszen 1977
RANGE: BC to CA, east to MT, ID and NV
BC RANGE: Southwestern BC (Woss Lake, Kennedy Lake, Mt. Sabine, Long Beach, Saturna Island, Garibaldi Park, Mt. Seymour Park)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Dry to moist slopes and meadows
RARE STATUS: R4

**Agrostis microphylla** Steud.
Small-leaved Bent Grass
HERBARIA: UBC, V
REFERENCE: Hubbard 1955

RANGE: Along the coast from BC to CA; Columbia River Gorge and NV
BC RANGE: Southwestern BC (Nanaimo, Victoria, Cabbage Island, Saltspring Island, Burnaby Lake)
BIOGEOCLIMATIC ZONE: CH, CF
HABITAT: Moist soil in the open
RARE STATUS: R4

**Agrostis pallens** Trin.
Dune Bent Grass
HERBARIA: DAO, UBC, V
REFERENCE: Hubbard 1955
RANGE: BC and WA to c CA
BC RANGE: Coastal BC (Masset, Victoria, Lulu Island, UBC Campus)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal sand dunes or adjacent woods
RARE STATUS: R2

**Allium acuminatum** Hook.
Hooker's Onion
HERBARIA: CAN, DAO, UBC, V, WS
REFERENCE: Taylor 1974b
MAP: Taylor 1974b
RANGE: BC, WA and OR, south to CA and AZ, east to s WY and w Co
BC RANGE: Southwestern BC (e Vancouver Island from Victoria to Campbell River, Gulf Islands, Fraser Valley, north to Lytton and Pemberton)
BIOGEOCLIMATIC ZONE: IF, PP, CF, CH
HABITAT: Dry places, stony or rocky ground
RARE STATUS: R4

**Allium amplectens** Torr.
Slimleaf Onion
HERBARIA: CAN, DAO, UBC, V
RANGE: BC, nw WA, Columbia River Gorge, through OR to s CA
BC RANGE: Nanaimo Lowland; Georgia Lowland (Victoria, Sooke, Shawnigan Lake, Chatham Islands, Bentinck Island, Galiano Island, Powell River)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open fields and hillsides
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in WA

**Allium crenulatum** Weigand
Olympic Onion
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1974b
MAP: Taylor 1974b
RANGE: Western BC to Olympic Mtns. and sw OR
BC RANGE: Southwestern BC (Cameron Lake, Cowichan Lake, Mt. Arrowsmith, Forbidden Plateau, North Pender Island)
BIOGEOCLIMATIC ZONE: MH, CF
HABITAT: Alpine areas, gravelly soils, rocky faces and slides
RARE STATUS: R1

**Allium geyeri** S. Wats. var. **tenerum** M.E. Jones
Geyer's Onion
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1974b
MAP: Taylor 1974b
RANGE: BC to e OR, east to s AB, SK, ID, s MT, WY, south to NV and NM
BC RANGE: Vancouver Island Mtns. — Alberni Basin; Nanaimo Lowland; Cascade Mtns., Thompson Plateau (Victoria, Alberni, Lytton, Pemberton, Kamloops)
BIOGEOCLIMATIC ZONE: IF, PP, CF
HABITAT: Water courses, mountain meadows, rocky ledges and outcrops
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB

**Allium validum** S. Wats.
Swamp Onion
HERBARIA: UBC
MAP: Southern BC south to sw OR, CA, east to w ID, e OR and ne NV
BC RANGE: Okanagan Highland; Rocky Mtn. Trench; Continental Ranges — Fernie Basin (Okanagan Falls, near Corbin, s border of Kootenay National Park)
BIOGEOCLIMATIC ZONE: ES, PP
HABITAT: Alpine meadows, wet places
RARE STATUS: R1

**Allotropa virgata** Torr. & Gray
Candystick
HERBARIA: UBC, V
MAP: Szczawinski 1975b
RANGE: Eastern slope of the Cascades to near the coast, from BC to CA
BC RANGE: Southwestern BC (Vancouver Island from Woss Camp to Shawnigan Lake, Saturna Island, Saltspring Island, Savary Island, Howe Sound, Sechelt, Garibaldi, east to Chilliwack Lake)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Deep humus of coniferous forest
RARE STATUS: R4

**Alopecurus alpinus** J.E. Smith subsp. **alpinus**
Alpine Foxtail
HERBARIA: CAN, DAO, UBC, V
MAP: Hultén 1968, Porsild 1964
RANGE: Arctic Archipelago, AK to NF, south in the Rocky Mountains to ID, MT, UT, WY and CO
BC RANGE: Fort Nelson Lowland (Beatton River crossing)
BIOGEOCLIMATIC ZONE: ES, BS
HABITAT: Moist montane valleys, subalpine and alpine meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in MB, ON

**Alopecurus carolinianus** Walt.
Carolina Meadow Foxtail
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Hubbard 1955
RANGE: Southern BC, WA, OR, ID, MT, CA, east to AK; c and se US
BC RANGE: Nanaimo Lowland, Pacific Ranges (Victoria, Oak Bay, Cedar Hill, Mitlenatch Island, Yale)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Waste areas, old fields, roadsides, moist areas
RARE STATUS: R1

**Ammannia coccinea** Rottb.
Scarlet Ammannia
HERBARIA: DAO, UBC, V

REFERENCE: Ceska and Ceska 1980
RANGE: Southern BC and WA to ON, MN, IL, OH, NE, TX and FL; MX
BC RANGE: Okanagan Highland (Osoyoos)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Wet places
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada; extirpated in PA

**Amsinckia lycopsoides** (Lehm.) Lehm.
Bugless Fiddleneck
HERBARIA: CAN, UBC, V
MAP: Hulten 1968
RANGE: BC to w MT, south to CA and NV; sw AK
BC RANGE: Scattered in Province (Cameron Lake, Nanaimo, Parksville, Sidney, Texada Island, Revelstoke, Trail, Atlin)
BIOGEOCLIMATIC ZONE: CF, CH, IF, BS
HABITAT: Dry open slopes and flats, disturbed soil
RARE STATUS: R3

**Amsinckia spectabilis** Fisch. & C.A. Meyer
Seaside Amsinckia
HERBARIA: DAO, UBC, V
MAP: Calder and Taylor 1968
RANGE: Queen Charlotte Islands, BC to n Baja CA
BC RANGE: Western BC; Queen Charlotte Islands, Nanaimo Lowland, Gulf Islands (Argonaut Plateau, Skidegate Plateau, Massett, Denman Island, Saturna Island)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Near or along the seashore, sandy beaches
RARE STATUS: R2

**Anagallis minima** (L.) Krause in Strum
Chaffweed
HERBARIA: ALTA, CAN, DAO, UBC
MAP: Hultén 1958
RANGE: Southern BC to MN, south to IL, CA, TX, FL and MX; South America, Europe
BC RANGE: Nanaimo, Lowland, Alberni Basin (Alberni, Nanaimo, Victoria)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Moist places, borders of ponds
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, SK, NS, KS

**Androsace chamaejasme** Wulfen in Jacq.
Sweet-flowered Fairy-candelabra
HERBARIA: CAN, DAO, UBC, UVIC, V
REFERENCE: Ulke 1934
MAP: Hultén 1968
RANGE: Arctic America; AK and YT south to MT; Asia
BC RANGE: Liard Plateau, Continental Ranges, Park Ranges (Field)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Rocky slopes on tundra and in mountains
RARE STATUS: R1

**Androsace lehmanniana** Spreng. = **A. chamaejasme** Wulfen in Jacq.

**Androsace occidentalis** Pursh
Western Fairy-candelabra
HERBARIA: CAN, DAO, UBC, V
RANGE: Mississippi Valley west to the west side of the Rockies from NM to BC in AZ and CA, ON to BC and TX, AR, IN, w MT
BC RANGE: Thompson Plateau (Kamloops, Hosmer, Hedley, Kelowna, Spence's Bridge, Penticton, Armstrong) Border Ranges (Flathead)
BIOGEOCLIMATIC ZONE: IF, PP, ES
HABITAT: Talus slopes and flats, rocky woods, prairies
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB, IA, endangered in IN

**Anemone canadensis** L.
Canada Anemone
HERBARIA: CAN, UBC
RANGE: BC and AB to NM, largely east of Rocky Mountains
BC RANGE: Continental Ranges (Emerald Lake), Bulkley Ranges (Hazelton)
BIOGEOCLIMATIC ZONE: CH, ES
HABITAT: Damp meadows, thickets, sandy shores
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT, NS, possibly extirpated in TN
NOTE: Possibly introduced

**Anemone piperi** Britt.
Piper's Anemone
HERBARIA: V
RANGE: Southern BC south to ne OR, c ID and w MT
BC RANGE: Buchanan Mtn., (nw of Kaslo)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Woods
RARE STATUS: R1

**Anemone riparia** Fern.
Riverbank Anemone
HERBARIA: V
RANGE: Central BC and AB east to NF and MD
BC RANGE: Prince George, Quesnel
BIOGEOCLIMATIC ZONE: CA
HABITAT: Thickets, woods
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in NS, threatened in PA

**Angelica dawsonii** S. Wats.
Dawson's Angelica
HERBARIA: CAN, DAO, UBC, V
RANGE: Southeast BC and sw AB to n ID and nw MT
BC RANGE: Southeastern BC (Fernie, Flathead, 64 miles northeast of Cranbrook, 20 miles north of Coleman)
BIOGEOCLIMATIC ZONE: ES, IH
HABITAT: Along streams, moist or wet mountain slopes
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Antennaria neglecta** Greene var. **athabascensis** (Greene) Taylor & MacBryde
Field Pussytoes
HERBARIA: CAN, UBC, V
RANGE: Northeastern BC to OR and PQ
BC RANGE: Alberta Plateau (Peace River area)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Grasslands
RARE STATUS: R1

**Aphanes occidentalis** (Nutt.) Rydb.
Western Parsley-piert
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1973
MAP: Calder and Taylor 1968, Taylor 1973
RANGE: Southern BC to CA, e WA and OR, e North America
BC RANGE: Queen Charlotte Islands, s Vancouver Island and adjacent mainland (Queen Charlotte City, Victoria to Nanaimo, Galiano Island, Vancouver area)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Fields, open places in woods
RARE STATUS: R4

**Apocynum sibiricum** Jacq.
Clasping-leaved Dogbane
HERBARIA: CAN, DAO, UBC, V
RANGE: In much of the US and Canada; BC, e WA and OR to s CA, east to MB, MN and TX
BC RANGE: Nanaimo Lowland, Alberta Plateau, Cascade Mtns., Monashee Mtns (Cameron Lake, Attachie)
BIOGEOCLIMATIC ZONE: IH, BS
HABITAT: Moist places
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Arabidopsis salsuginea** (Pall.) Busch = **Thellungiella salsuginea** (Pall.) O. Schulz in Engler

**Arabis nuttallii** B. Rob. in Gray
Nuttall's Rock Cress
HERBARIA: DAO, UBC
RANGE: Southern BC and s AB south to NV and WY
BC RANGE: Southern BC (Mile 19 Flathead Hwy., Starvation Peak, Nicola, Kootenay Park, Forbidden Plateau, Keremeos)
BIOGEOCLIMATIC ZONE: ES, BS, PP
HABITAT: Alpine rock outcrops, talus slopes
RARE STATUS: R2

**Arctophila fulva** (Trin.) Anderss.
Pendant Grass
HERBARIA: CAN, DAO, UBC, V
MAP: Hultén 1962, 1968, Porsild 1964
RANGE: Circumpolar, AK and YT, east to n ON and PQ
BC RANGE: Northwestern BC (Swan Lake)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Tundra, lakeshores, shallow water beside streams
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in ON

**Arctostaphylos columbiana** Piper in Piper & Beattie
Bristly Manzanita
HERBARIA: CAN, DAO, UBC, UVIC, V, WS
REFERENCE: Szczawinski 1975b
MAP: Szczawinski 1975b
RANGE: West of the Cascades from s BC to CA
BC RANGE: Southwestern BC (Southern and se Vancouver Island, the Gulf Islands, Vancouver and vicinity, north to 50°N latitude)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Dry exposed rocky outcrops and rocky slopes
RARE STATUS: R4

**Arenaria longipedunculata** Hultén
Low Sandwort
HERBARIA: V
MAP: Hultén 1968
RANGE: AK and YT south to BC and AB, east to NF; Greenland, Europe
BC RANGE: Continental Ranges — Park Ranges (Mt. Robson Park)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Gravel, moist places in mountains
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Arenaria pusilla** S. Wats. = **Minuartia pusilla** (S. Wats.) Mattfeld

**Armeria maritima** (Mill.) Willd.
Thrift
HERBARIA: CAN, DAO, UBC, UVIC, V
MAP: Hultén 1968
RANGE: Arctic North America to NF, on the Pacific Coast to s CA; Eurasia
BC RANGE: Southern Vancouver Island (Sooke, Long Beach, Victoria, Saanich Spit, Parksville, Pacific Rim Park)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Along beaches and coastal bluffs
RARE STATUS: R4

**Arnica chamissonis** Less. subsp. **incana** (Gray) Maguire
Chamisso's Arnica
HERBARIA: CAN, DAO, GD, UBC, V
REFERENCE: Douglas 1982, Douglas and Ruyle-Douglas 1978, Maguire 1943
MAP: Douglas 1982
RANGE: Southern YT to s CA and east to sw ID and c UT
BC RANGE: Scattered in Province; Interior Plateau (Chilco Ranch, Riske Creek, Kleena Kleene), Alberta Plateau (Pouce Coupe), Columbia Mountains (Wardner)
BIOGEOCLIMATIC ZONE: BS, IF, IH
HABITAT: Wet places
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT

**Arnica louiseana** Farr subsp. **louiseana**
Lake Louise Arnica
HERBARIA: V
REFERENCE: Douglas 1982, Maguire 1943, Straley 1980
MAP: Douglas 1982
RANGE: Rocky Mountains of sw AB and se BC
BC RANGE: Kootenay National Park
BIOGEOCLIMATIC ZONE: ES
HABITAT: Scree slopes, alpine ridges
RARE STATUS: R1

**Artemisia alaskana** Rydb.
Alaskan Sagebrush
HERBARIA: V
MAP: Douglas 1974, Hultén 1968
RANGE: AK and YT south to nw BC
BC RANGE: Haines Road
BIOGEOCLIMATIC ZONE: SW
HABITAT: Gravelly river terraces
RARE STATUS: R1

**Artemisia cana** Pursh
Silver Sagebrush
HERBARIA: ACK, UBC, V
REFERENCE: Douglas and Ruyle-Douglas 1978
RANGE: Southern BC to SK south to n CA and NM
BC RANGE: Thompson Highland (Savona, Merrit)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Rocky areas
RARE STATUS: R1

**Artemisia furcata** Bieb. var. **heterophylla** (Besser) Hultén
Three-forked Mugwort
HERBARIA: GD
REFERENCE: Douglas and Ruyle-Douglas 1978
RANGE: Northeastern Asia to NT, YT and coastal BC
BC RANGE: West side of Vancouver Island (Brooks Peninsula)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Rocky slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT

**Artemisia heterophylla** Besser = **A. furcata** Bieb. var. **heterophylla** (Besser) Hultén

**Artemisia hyperborea** Rydb. = **A. furcata** Bieb. var. **heterophylla** (Besser) Hultén

**Artemisia longifolia** Nutt.
Long-leaved Mugwort
HERBARIA: DAO, UBC, V
RANGE: Southern BC and SK south to NE and OR
BC RANGE: Alberta Plateau
BIOGEOCLIMATIC ZONE: BS
HABITAT: Sandy beaches, river and lake margins
RARE STATUS: R1

**Artemisia ludoviciana** Nutt. var. **incompta** (Nutt.) Cronq.
Western Mugwort
HERBARIA: V
RANGE: BC to MT and CA
BC RANGE: Slocan Lake
HABITAT: Dry hillsides
BIOGEOCLIMATIC ZONE: IF
RARE STATUS: R1

**Artemisia trifurcata** Stephan ex Sprengel = **A. furcata** Bieb. var. **heterophylla** (Besser) Hultén

**Artemisia tripartita** Rydb.
Three-tip Sagebrush
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern BC east to MT and south to CA and CO
BC RANGE: Okanagan Highland (Oliver, Spotted Lake, Keremeos, Anarchist Mountain)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Dry hillsides
RARE STATUS: R4

**Asclepias ovalifolia** Decne.
Oval-leaved Milkweed
HERBARIA: DAO, UBC, V
RANGE: Southeastern BC, AB, to s MB and w ON, south to NE, IA and IL
BC RANGE: Southeastern BC; Selkirk Mtns. (Revelstoke)
BIOGEOCLIMATIC ZONE: IH
HABITAT: Thickets and slopes of valleys, prairies
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in ON, WY, endangered in IL, threatened in MI
NOTE: Possibly introduced in BC

**Asplenium adulterinum** Milde
Browngreen Serpentine Spleenwort
HERBARIA: V
REFERENCE: Ogilvie and Ceska (in prep.)
RANGE: Europe, sw British Columbia
BC RANGE: Vancouver Island Mountains (Zeballos, Tahsis, Gold River)
BIOGEOCLIMATIC ZONE: CH, MH
HABITAT: Limestone rocks, ledges, sinkholes
RARE STATUS: R1
STATUS OUTSIDE BC: Not known from elsewhere in North America

**Aster ascendens** Lindl. in Hook.
Intermountain Aster
HERBARIA: DAO
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: Southeastern BC to CO and CA
BC RANGE: Kinbasket Lake, Kootenay Lake, Keremeos
BIOGEOCLIMATIC ZONE: IF
HABITAT: Open mountain slopes
RARE STATUS: R1

**Aster canescens** Pursh = **Machaeranthera canescens** (Pursh) Gray

**Aster chiliensis** Nees var. **ascendens** (Lindl. in Hook.) Cronq. = **A. ascendens** Lindl. in Hook.

**Aster curtus** Cronq.
White-topped Aster
HERBARIA: UBC, UVIC, V
REFERENCE: Cronquist 1955, Douglas 1984
MAP: Douglas 1984
RANGE: Southern BC to sw OR
BC RANGE: Southern Vancouver Island (Victoria, Oak Bay, Maple Mtn., Mt. Tzuhalem, Port Alberni) and adjacent islands (Trial Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Rocky areas, dry grassy forest of *Quercus garryana*
RARE STATUS: R2
STATUS OUTSIDE BC: Threatened in WA

**Aster paucicapitatus** (B. Rob.) B. Rob.
Olympic Mountain Aster
HERBARIA: CAN, GD, V
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: Southwestern BC and Olympic Mtns. of WA
BC RANGE: Vancouver Island (Golden Hinde, Mt. Arrowsmith)
BIOGEOCLIMATIC ZONE: MH
HABITAT: Meadows, subalpine talus slopes
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in WA

**Aster radulinus** Gray
Rough-leaved Aster
HERBARIA: CAN, V
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: Southwestern BC south to s CA
BC RANGE: Southern Vancouver Island
BIOGEOCLIMATIC ZONE: CF
HABITAT: Dry, wooded slopes
RARE STATUS: R2

**Aster stenomeris** Gray
Rocky Mountain Aster
HERBARIA: UBC, V
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: Southeastern BC to c ID and ne WA
BC RANGE: Columbia Mountains (Yahk Mountain, Kimberley, Mt. Craven, Cranbrook, Creston)
BIOGEOCLIMATIC ZONE: ES, IH
HABITAT: Dry alpine and subalpine meadows
RARE STATUS: R4

**Astragalus aboriginum** Richards. in Franklin
Indian Milk-vetch
HERBARIA: UBC, V
REFERENCE: Barneby 1964, Taylor 1974c
MAP: Barneby 1964, Taylor 1974c
RANGE: AK to NV, UT and CO
BC RANGE: Kimberley, Canal Flats, Field, Elko, Baillie-Grohman Canal, Fairmount Hot Springs, AK Hwy. (Peace River Bridge, Mile 297, Summit Pass, Jct. of Toad and Racing rivers)
BIOGEOCLIMATIC ZONE: ES, BS, IH, IF
HABITAT: Gravelly banks, river flats
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT, MB, PQ

**Astragalus adsurgens** Pallas
Standing Milk-vetch
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1974c
MAP: Taylor 1974c
RANGE: Eastern Asia; AK to ON south to WA and NM
BC RANGE: Northeastern BC; Alberta Plateau (Attachie, Ft. Nelson), Liard River, Toad River, Good Hope Lake, Pine Pass
BIOGEOCLIMATIC ZONE: BS, CA
HABITAT: Dry, grassy slopes, river terraces
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in ON

**Astragalus bourgovii** Gray
Bourgeau's Milk-vetch
HERBARIA: DAO, UBC, V
REFERENCE: Barneby 1964, Taylor 1974c
MAP: Barneby 1964, Taylor 1974c
RANGE: Southeastern BC and sw AB to MT and ID
BC RANGE: Extreme se BC (Twin Lakes Peak, Mile 19 Flathead Rd., Paradise Valley, Akamina and Kishinena Creeks)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Talus shale, rocky alpine areas, meadows
RARE STATUS: R1

**Astragalus collinus** Dougl. ex Hook.
Hill Milk-vetch
HERBARIA: DAO, UBC, V
REFERENCE: Barneby 1964, Taylor 1974c
MAP: Barneby 1964, Taylor 1974c
RANGE: Southern BC to ne OR and w-c ID
BC RANGE: Thompson Plateau and Okanagan Highland (Fairview, Summerland, Monte Creek, Vernon, Kamloops, Long Lake, Tranquille Range, Nicola Valley)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Dry open hillsides, open woods
RARE STATUS: R4

**Astragalus convallarius** Greene
Lesser Rusty Milk-vetch
HERBARIA: V
REFERENCE: Taylor 1974c
MAP: Taylor 1974c
RANGE: South-central BC to se ID, WY and UT
BC RANGE: Thompson Plateau (Spences Bridge)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Sagebrush hillsides and grasslands
RARE STATUS: R1

**Astragalus crassicarpus** Nutt. in J. Fraser
Ground-plum
HERBARIA: V
REFERENCE: Taylor 1974c
MAP: Taylor 1974c
RANGE: Southeastern BC and MN to NM, IL and AR
BC RANGE: Crowsnest region
BIOGEOCLIMATIC ZONE: ES
HABITAT: Gravelly areas
RARE STATUS: R1

**Astragalus filipes** Torr. ex Gray
Basalt Milk-vetch
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Barneby 1964, Taylor 1974c
MAP: Barneby 1964, Taylor 1974c
RANGE: South-central BC to ID and south to Baja CA
BC RANGE: Thompson Plateau and Okanagan Highland (Nicola Valley, Merrit, Columbia Lake, Osoyoos, Anarchist Mtn.)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Dry grassy slopes
RARE STATUS: R2

**Astragalus lentiginosus** Dougl. ex Hook.
Freckled Milk-vetch
HERBARIA: CAN, UBC, V
REFERENCE: Barneby 1964, Taylor 1974c
MAP: Barneby 1964, Taylor 1974c
RANGE: Southern BC to CA, MT and UT
BC RANGE: Thompson Plateau (Merritt, Mara Mtn., Nicola Lake, Spences Bridge, Ashnola Rd., south of Kamloops)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Dry bluffs, sagebrush hills
RARE STATUS: R2

**Astragalus lotiflorus** Hook.
Lotus Milk-vetch
HERBARIA: UBC, V
REFERENCE: Barneby 1964, Taylor 1974c

MAP: Barneby 1964, Taylor 1974c
RANGE: Southern BC east to SK and south to NM and TX
BC RANGE: Fraser Highland (Sheep Creek between Williams Lake and Riske Creek), Okanagan Highland (Bridesville, Penticton, Summerland) Thompson Plateau (Cache Creek, Kamloops, Nicomen Falls)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Limestone cliffs, dry hills
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, MB, IA, MN, MO

**Astragalus microcystis** Gray
Least Bladdery Milk-vetch
HERBARIA: UBC, V
REFERENCE: Barneby 1964, Taylor 1974c
MAP: Barneby 1964
RANGE: Southeastern BC to ne WA and w MT
BC RANGE: Kindegootch (?), Pass Creek (north of Castlegar)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Open places in heavy soils
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Astragalus nutzotinensis** Rouss.
Nutzotin Milk-vetch
HERBARIA: ALTA, GD, UBC, V
REFERENCE: Douglas and Ruyle-Douglas 1978
MAP: Hultén 1968
RANGE: Northern AK to nw BC
BC RANGE: Alsek River, Haines Road
BIOGEOCLIMATIC ZONE: SW
HABITAT: Sandy soil, gravel bars
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT
NOTE: Endemic to AK, YT and BC

**Astragalus robbinsii** (Oakes) Gray
Robbin's Milk-vetch
HERBARIA: UBC, V
REFERENCE: Barneby 1964, Taylor 1974c
MAP: Barneby 1964, Taylor 1974c
RANGE: AK to WA, east to c Canada and US
BC RANGE: Southern and w BC (Hedley, Wall Lake, Princeton, Cathedral Lakes, Flathead, Kimberley, Penticton, Mt. Apex, Chilco Lake, e Manning Park, Tchaikazan Valley, Ashnole, Relay Creek, Summerland, Skookumchuck, Mt. Tasu)
BIOGEOCLIMATIC ZONE: IH, IF, PP
HABITAT: Meadows, talus
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in NS, YT, PQ, CO, WY, VT

**Astragalus sclerocarpus** Gray
Dalles Milk-vetch
HERBARIA: UBC, V
REFERENCE: Barneby 1964, Hamet-Ahti 1965, Taylor 1974c
MAP: Barneby 1964, Taylor 1974c
RANGE: South-central BC to n OR
BC RANGE: Okanagan Highland (Summerland, Kaleden)
BIOGEOCLIMATIC ZONE: PP
HABITAT: *Pinus ponderosa* parkland
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Astragalus umbellatus** Bunge
Tundra Milk-vetch
HERBARIA: UBC, V
REFERENCE: Barneby 1964, Pojar *et al.* 1976, Taylor 1974c
MAP: Barneby 1964, Hultén 1968, Taylor 1974c
RANGE: Arctic Asia; AK to NT and south to nw BC
BC RANGE: Yedhe Creek, Good Hope Lake, Haines Rd. (Mile 60, Mile 75, Mile 78), Ewe Mtn. off AK Hwy. Mile 428
BIOGEOCLIMATIC ZONE: AT
HABITAT: Creek banks, boggy and swampy tundra
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in Continental NT

**Atriplex alaskensis** S. Wats.
Alaskan Orache
HERBARIA: CAN, DAO
REFERENCE: Bassett *et al.* 1983
MAP: Bassett and Crompton 1973, Bassett *et al.* 1983
RANGE: Southern coast of AK to nw BC
BC RANGE: Queen Charlotte Mtns. — Queen Charlotte Ranges (west coast of Graham Island)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Seashores
RARE STATUS: R1

**Athysanus pusillus** (Hook.) Greene
Common Sandweed
HERBARIA: UBC, V
RANGE: Southern BC south to s CA and east to ID
BC RANGE: Southern Vancouver Island (Nanoose Bay, Victoria, Mt. Blinkhorn, Mt. Finlayson), Lillooet area (Lizzy Creek), Crawford Bay
BIOGEOCLIMATIC ZONE: CF, IH
HABITAT: Wet seepage bluffs
RARE STATUS: R3

**Avenochloa hookeri** (Scribn.) Holub
Hooker's Spike-oat
HERBARIA: CAN, DAO, V
RANGE: Southern YT, AB to MB, south to MT, NM and MN
BC RANGE: Alberta Plateau (Beatton River, Pouce Coupe)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Prairies and foothills
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, Continental NT, WY, threatened in MN

**Azolla mexicana** Presl.
Mosquito Fern
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Brunton 1983b, Taylor 1971
MAP: Brunton 1983b, Taylor 1971
RANGE: Southern BC east to WI and south to Bolivia
BC RANGE: Shuswap Highland (Sicamous, Tappen, Cambie)
BIOGEOCLIMATIC ZONE: IH
HABITAT: Ponds
RARE STATUS: R1; designated as threatened by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) in 1984

**Balsamorhiza deltoidea** Nutt.
Deltoid Balsamroot

HERBARIA: CAN, DAO, UBC, V
RANGE: Southwestern BC south to s CA
BC RANGE: Vancouver Island (Campbell River, Victoria, Thetis Lake)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Rocky bluffs, sandy coastal beaches
RARE STATUS: R1

**Berula erecta** (Huds.) Cov.
Cut-leaved Water-parsnip
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern BC to Baja CA, east to NY and FL; Europe and the Mediterranean region
BC RANGE: Skagit Range; Purcell Mtns.; Thompson Plateau (Popkum, Kimberley, Oliver, Kamloops)
BIOGEOCLIMATIC ZONE: CA, IF, PP, CH
HABITAT: Wet places or shallow water in valleys and plains
RARE STATUS: R2

**Besseya wyomingensis** (Nels.) Rydb.
Wyoming Kitten-tails
HERBARIA: CAN, UBC, V
RANGE: Southern AB, south through w MT and the e half of ID to n UT, east to SD, NE and n CO, sw SK
BC RANGE: Continental Ranges (Front Ranges, Mt. Turnbull)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Open slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK

**Bidens amplissima** Greene
Vancouver Island Beggarticks
HERBARIA: UBC, V
RANGE: Southwestern BC
BC RANGE: Southern Vancouver Island (Lake District, Port Alberni), Fraser Lowland (Cloverdale, Lulu Island, Vancouver, Pitt Lake, Ladner)
BIOGEOCLIMATIC ZONE: CH, CF
HABITAT: Ditches, wet fields, salt marshes
RARE STATUS: R4
NOTE: Endemic to BC

**Bidens beckii** Torr. ex Sprengel
Beck's Beggarticks
HERBARIA: CAN, UBC, V
RANGE: PQ south to NJ and west to MN and MO; se BC south to OR
BC RANGE: Columbia River Valley (Windermere Lake, Radium Hot Springs), Columbia Mountains (Christina Lake, Creston, Duck Lake), Vancouver Island (Nanaimo)
BIOGEOCLIMATIC ZONE: IH, IF, CF
HABITAT: Marshes and lakes
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in SK, endangered in IN, NJ, threatened in PA
NOTE: Possibly introduced in BC

**Bidens frondosa** L.
Common Beggarticks
HERBARIA: CAN, DAO, UBC, V
RANGE: NF to BC and south to VA and CA
BC RANGE: Fraser and Georgia Lowlands (Cloverdale, New Westminster, North Vancouver, Horseshoe Bay, Hope)
BIOGEOCLIMATIC ZONE: CH, CF
HABITAT: Roadsides, ditches, wet meadows
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Bidens vulgata** Greene
Tall Beggarticks
HERBARIA: DAO, UBC, V
RANGE: NS to BC and south to GA and CA
BC RANGE: Okanagan Highland and Fraser Plateau (Osoyoos, Tranquille), Columbia Mountains (Creston)
BIOGEOCLIMATIC ZONE: PP, IF
HABITAT: Ditches, lake margins
RARE STATUS: R1

**Boisduvalia densiflora** (Lindl.) S. Wats.
Dense Spike-primrose
HERBARIA: CAN, DAO, UBC, V, WS
REFERENCE: Raven and Moore 1965
MAP: Raven and Moore 1965
RANGE: Southwestern BC south to Baja CA, east to w MT, AB, ID and NV
BC RANGE: Nanaimo Lowland (Victoria, Nanaimo, Qualicum, Sidney, Wellington, Goldstream, Saanichton)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Moist sites
RARE STATUS: R2

**Boisduvalia glabella** (Nutt.) Walp.
Smooth Spike-primrose
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Raven and Moore 1965
MAP: Raven and Moore 1965
RANGE: BC and e WA, south to s CA and NV, east to sw SK, ND, SD and UT; South America
BC RANGE: Pacific Ranges; Thompson Plateau (Botanie Valley, Douglas Lake)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Moist sites, prairie mud flats
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, SK

**Boisduvalia stricta** (Gray) Greene
Brook Spike-primrose
HERBARIA: DAO, UBC, V
REFERENCE: Raven and Moore 1965
MAP: Raven and Moore 1965
RANGE: Southwestern BC and e WA south to c CA, east to ID and NV
BC RANGE: Nanaimo Lowland (Victoria, Thetis Lake Park)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Moist sites
RARE STATUS: R1

**Boschniakia hookeri** Walp.
Vancouver Groundcone
HERBARIA: UBC, V
RANGE: Coastal from w BC to n CA
BC RANGE: Vancouver Island (Bamfield, Long Beach, Parksville), Gulf Islands (Savary)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Sand dunes, parasitic on *Arctostaphylos*

*uva-ursi*
RARE STATUS: R1

**Boschniakia rossica** (Cham. & Schlecht.) Fedch.
Northern Groundcone
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Porsild and Crum 1961
MAP: Hultén 1968, Porsild 1966
RANGE: AK and YT, east to Mackenzie and south to n BC
BC RANGE: Icefield Ranges, Teslin Plateau, Liard Plateau (Liard Hot Springs, Atlin)
BIOGEOCLIMATIC ZONE: SW, BS, CH
HABITAT: Thickets, woods, tundra, parasitic on roots of **Alnus crispus**
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Botrychium lanceolatum** (S.G. Gmel.) Angstr.
Lance-leaved Grape Fern
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1971
MAP: Taylor 1971
RANGE: Circumpolar, south in w North America to s WA, UT and CO
BC RANGE: Scattered in Province (Garibaldi, Cheakamus and Squamish Rivers, Revelstoke, Wells, Liard Hot Springs, Haines Road, Terrace, Taku Plateau, Strathcona Park, Tsitika River area)
BIOGEOCLIMATIC ZONE: AT, BS, MH, CH
HABITAT: Grassy slopes, talus slopes, subalpine meadows
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, YT, SK, ON, PQ, NS, WA, UT, WY, MN, RI, WI, endangered in NC, threatened in OR

**Botrychium lunaria** (L.) Swartz in Schrader subsp. **minganense** (Victorin) Calder & Taylor = **B. minganense** Victorin

**Botrychium minganense** Victorin
Mingan Grape Fern
HERBARIA: DAO, UBC
REFERENCE: Taylor 1970, 1971
MAP: Taylor 1970, 1971
RANGE: YT and BC east to PQ and s Labrador
BC RANGE: Queen Charlotte Islands (n Graham Island), Wells Gray Park (Surprise Lake, Helmcken Falls)
BIOGEOCLIMATIC ZONE: CH, CA, IH
HABITAT: Woods, fields
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Botrychium montanum** W.H. Wagner
Mountain Grape Fern
HERBARIA: DAO
REFERENCE: Wagner and Wagner 1981
RANGE: Southern BC south to c OR and east to nw MT
BC RANGE: Lost Lake (19 mi. east of Enderby)
BIOGEOCLIMATIC ZONE: IH
HABITAT: Hemlock forest
RARE STATUS: R1

**Botrychium paradoxum** W.H. Wagner
HERBARIA: V
RANGE: Flathead area of MT, sw AB and s BC
BC RANGE: Okanagan Range (Juniper Slope)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Subalpine meadow
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Botrychium simplex** E. Hitchc.
Little Grape Fern
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1971
MAP: Taylor 1971
RANGE: Scattered in Europe and North America, south to CA, NM and PA
BC RANGE: Southern Vancouver Island (Sooke Hills, Mt. Benson, Port Alberni), Nairn Creek, Crevice Mtn.
BIOGEOCLIMATIC ZONE: CF
HABITAT: Vernal pools, seepage areas
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, NS, IL, IA, OR, WY, endangered in IN, WI, threatened in RI

**Bouteloua gracilis** (H.B.K.) Lag. & Steud.
Blue Grama Grass
HERBARIA: UBC, V
REFERENCE: Hubbard 1955
RANGE: East of the Rocky Mountains from BC to MB, south to MT, WI, CA and TX; MX
BC RANGE: Rocky Mountain Trench (Jaffray, Roosville)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Short-grass prairie
RARE STATUS: R1

**Braya americana** (Hook.) Fern. = **B. purpurascens** (R. Br.) Bunge in Ledeb.

**Braya purpurascens** (R. Br.) Bunge in Ledeb.
Purple Braya
HERBARIA: UBC, V
MAP: Hultén 1968, Porsild 1964
RANGE: Circumpolar, south in w North America to n BC
BC RANGE: AK Hwy. (Summit Pass)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine meadows, rocky limestone slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, YT, Continental NT, PQ

**Brickellia oblongifolia** Nutt. var. **oblongifolia**
Narrow-leaved Brickellia
HERBARIA: DAO, UBC, V
RANGE: Southern BC east to ND and south to CA and NM
BC RANGE: Okanagan Highland (Hedley, Keremeos, Ashnola)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Sagebrush hillsides
RARE STATUS: R1

**Brodiaea coronaria** (Salisb.) Engl.
Harvest Brodiaea
HERBARIA: DAO, UBC, UVIC, V
REFERENCE: Taylor 1974b
MAP: Niehaus 1971, Taylor 1974b
RANGE: Southwestern BC and Puget Sound, south to WA, w OR and CA
BC RANGE: Southwestern BC (Vancouver Island north to

Comox and Courtenay, Gulf Islands, mainland south from Powell River, Spences Bridge)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Grassy slopes, rocky bluffs, heavy clay soils
RARE STATUS: R4

**Brodiaea douglasii** S. Wats. = **Triteleia grandiflora** Lindl.

**Brodiaea grandiflora** Smith = **B. coronaria** (Salisb.) Engl.

**Brodiaea howellii** S. Wats. = **Triteleia howellii** (S. Wats.) Greene

**Brodiaea hyacinthina** (Lindl.) J. Baker = **Triteleia hyacinthina** (Lindl.) Greene

**Bromus canadensis** Michx.
Canadian Brome Grass
HERBARIA: ALTA, CAN, UBC, WTU
REFERENCE: Raup 1934, Wagnon 1952
MAP: Wagnon 1952
RANGE: BC south to WA, OR, CA, NV, east to Labrador, NF, MA, NJ, TN, MO and TX; n MX
BC RANGE: Central BC (Prince Rupert, Mt. Selwyn)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Riverbanks, lake margins, rocky slopes
RARE STATUS: R3

**Bromus suksdorfii** Vasey
Suksdorf's Brome Grass
HERBARIA: V
MAP: Wagnon 1952
RANGE: s BC to s Sierra Nevada of CA, w NE
BC RANGE: Hozameen Range (Manning Park)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Open meadows, rocky slopes
RARE STATUS: R1

**Bupleurum americanum** Coult. & Rose
Thorough-wort
HERBARIA: ALTA, CAN, DAO, UBC, V
MAP: Hultén 1968
RANGE: AK, YT, NT, through BC and AB to n and w-c WY and e ID
BC RANGE: Border Ranges — Clark Range (South Kootenay Pass)
BIOGEOCLIMATIC ZONE: ES
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, Continental NT

**Cacaliopsis nardosmia** (Gray) Gray = **Luina nardosmia** (Gray) Cronq. in Hitchc. *et al.* var. **glabrata** (Piper) Cronq. in Hitchc. *et al.*

**Calamagrostis crassiglumis** Thurb. in S. Wats.
Thurber's Small Reed Grass
HERBARIA: DAO, UBC, V
REFERENCE: Kershaw and Morton 1976
RANGE: Kodiak Island, AK to CA
BC RANGE: Queen Charlotte Lowland — Argonaut Plain; Nanaimo Lowland; Vancouver Island Mountains — Estevan Coastal Plain (Masset, Oeanda River, McCreight Lake, Pacific Rim National Park)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Coastal swampland
RARE STATUS: R2
STATUS OUTSIDE BC: Threatened in WA

**Calamagrostis montanensis** (Scribn.) Scribn. in Vasey
Plains Small Reed Grass
HERBARIA: ALTA, CAN, UBC, V, WS
RANGE: Southeastern BC, east to MB, south to MT, CO, SD, MN and ID
BC RANGE: Southeastern BC (Columbia River Valley, Clayhurst Ecological Reserve)
BIOGEOCLIMATIC ZONE: ES, IF
HABITAT: Grassland and sagebrush benchland to lower mountains
RARE STATUS: R4

**Calamagrostis stricta** (Timm) Koeler
Slimstem Small Reed Grass
HERBARIA: CAN, DAO, V
MAP: Hultén 1962, 1968
RANGE: Circumboreal, AK and YT east to Greenland, south to OR, NV, CO and ne US; Eurasia
BC RANGE: Scattered throughout BC
BIOGEOCLIMATIC ZONE: SS, CA, CH
HABITAT: Wet meadows, streâm and pond margins, gravel bars, moist slopes
RARE STATUS: R3

**Calamovilfa longifolia** (Hook.) Scribn. in Hack.
Prairie Sand Reed Grass
HERBARIA: ALTA, CAN, DAO, UBC, V, WS
MAP: Thieret 1966
RANGE: BC to sw ON, south to ID, WY, CO, MN, WI, MI, MO, IL and IN
BC RANGE: Monashee Mountains, Rocky Mountain Trench (Tobacco Plains, Wasa Lake, Greenwood, Flagstone)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Prairies and foothills, open woods, sandy soil
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in ON, IA, threatened in WI

**Calandrinia ciliata** (Ruiz & Pavon) DC.
Desert Rock Purslane
HERBARIA: CAN, DAO, UBC, UVIC, V
RANGE: Southwestern BC south to s CA and AZ; South America
BC RANGE: Vancouver Island and adjacent islands (Victoria, Cadboro Bay, Metchosin, William Head, Imne Island, Saltspring Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Gravelly to heavy soil where moist in spring
RARE STATUS: R3

**Callitriche anceps** Fern.
Two-edged Water Starwort
HERBARIA: UBC, UC, V
REFERENCE: Rubtzoff 1969
RANGE: Greenland to MA and GA; AK to WA and UT
BC RANGE: Scattered in Province (Atlin, Mt. Nowell, Whistler Mountain)
BIOGEOCLIMATIC ZONE: ES, BS, MH
HABITAT: Shallow pools, fresh to brackish water, seepage areas
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, NH, NY, VT

**Callitriche marginata** Torr.
Winged Water Starwort
HERBARIA: CAN, SFUV, UBC, V
RANGE: Southwestern BC to CA
BC RANGE: Victoria (Uplands), Gulf Islands (Mitlenatch Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Vernal pools
RARE STATUS: R1

**Calochortus apiculatus** J. Baker
Three-spot Mariposa Lily
HERBARIA: CAN, DAO, UBC, V, WS
REFERENCE: Taylor 1974b
MAP: Ownbey 1940, Taylor 1974b
RANGE: Southeastern BC and ne WA to sw AB, nw MT and n ID
BC RANGE: Southeastern BC (Rocky Mtn. Trench south from Windermere)
BIOGEOCLIMATIC ZONE: ES, IF, PP
HABITAT: Dryish meadows to sparse or deep woods, well-drained soil
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Calochortus lyallii** J. Baker
Lyall's Mariposa Lily
HERBARIA: UBC, WS
REFERENCE: Kershaw and Morton 1976, Taylor 1974b
MAP: Ownbey 1940
RANGE: Southern BC to s WA
BC RANGE: Thompson Plateau and Okanagan Range; Continental Ranges — Fernie Basin; Border Ranges — Clark Range (Similkameen River area, Corbin, Crowsnest Pass)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Sagebrush slopes to open forest
RARE STATUS: R1

**Caltha biflora** DC. = **C. leptosepala** DC. var. **biflora** (DC.) G. Lawson

**Caltha leptosepala** DC. var. **biflora** (DC.) G. Lawson
Two-flowered White Marsh-marigold
HERBARIA: UBC
RANGE: AK to CA; east to ID, UT, CO
BC RANGE: Coastal BC (Queen Charlotte Mountains and Vancouver Island Mountains)
BIOGEOCLIMATIC ZONE: MH, ES, CH
HABITAT: Wet to boggy soil, lowland to alpine
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in YT

**Caltha natans** Pallas
Floating Marsh-marigold
HERBARIA: CAN, DAO, UBC, V
RANGE: AK, YT east to PQ, s to AB and MI
BC RANGE: Fort Nelson Lowland (Dawson Creek and Fort Nelson areas, Liard River)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Ponds and mud banks
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT, YT, ON

**Calyptridium umbellatum** (Torr.) Greene
Mt. Hood Umbellate Pussypaws
HERBARIA: DAO, GD, UBC, V, WS
REFERENCE: Douglas and Ratcliffe 1981, Hinton 1975, McNeill 1973, Pojar 1975
RANGE: BC south to Baja CA, east to MT, WY and UT
BC RANGE: Okanagan Range (Cathedral Lakes Park, Placer Mtn.)
BIOGEOCLIMATIC ZONE: AT, ES, PP
HABITAT: *Pinus ponderosa* woodland to subalpine sandy flats and knolls
RARE STATUS: R1

**Calystegia soldanella** (L.) R. Br. ex Roemer & Schultes
Beach Bindweed
HERBARIA: CAN, DAO, UBC, V
MAP: Calder and Taylor 1968
RANGE: BC to San Diego County CA; islands of the Pacific; Europe
BC RANGE: Western BC (Queen Charlotte Islands, Vancouver Island and Gulf Islands and adjacent mainland)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal beaches and sand dunes
RARE STATUS: R4

**Camassia leichtlinii** (J. Baker) S. Wats.
Great Camas
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1974b
MAP: Taylor 1974b
RANGE: Southern BC south to sw OR and CA
BC RANGE: Vancouver Island (south from Nanaimo) and the Gulf Islands
BIOGEOCLIMATIC ZONE: CF
HABITAT: Meadows, prairies and hillsides where moist
RARE STATUS: R4

**Camassia quamash** (Pursh) Greene
Common Camas
HERBARIA: DAO, UBC, UVIC, V, WS
REFERENCE: Haber and Soper 1980, Taylor 1974b
MAP: Taylor 1974b
RANGE: BC south to CA, east to sw AB, MT, WY and UT
BC RANGE: Southern BC (Vancouver Island from Victoria to Campbell River, Brooks Peninsula, the Gulf Islands, Edgewood, Castlegar, Robson, Rossland, Creston, Glacier National Park)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Grassy places and moist areas, where dry by late spring
RARE STATUS: R4

**Camissonia andina** (Nutt.) Raven
Andean Evening-primrose
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Raven 1969
MAP: Raven 1969
RANGE: Southern BC, se AB and sw SK, south to CA, NV, MT, ID, WY and UT
BC RANGE: Okanagan Highland (Osoyoos)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Dry fields, sagebrush areas
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, SK

**Camissonia breviflora** (Torr. & Gray) Raven
Short-flowered Evening-primrose
HERBARIA: ALTA, CAN, DAO, V
REFERENCE: Raven 1969
MAP: Raven 1969
RANGE: Central BC and sw SK south to UT and CO
BC RANGE: Fraser Plateau (Chilko Lake, Nechako Plain)
BIOGEOCLIMATIC ZONE: CA
HABITAT: Dry meadows, streambanks
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, SK

**Camissonia contorta** (Dougl.) Kearney in Britton & Kearney
Contorted-podded Evening-primrose
HERBARIA: CAN, UBC, V
REFERENCE: Raven 1969
MAP: Raven 1969
RANGE: BC to Baja CA, inland to the Rocky Mtns., east to ID and NV
BC RANGE: Nanaimo Lowland (Saanichton Bay, Saanich Spit)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Sandy soil along the coast, along rivers
RARE STATUS: R1

**Campanula alaskana** (Gray) Wight ex J.P. Anderson
Alaskan Harebell
HERBARIA: DAO, UBC, V
MAP: Calder and Taylor 1968
RANGE: Western coastal BC
BC RANGE: Vancouver Island (Brooks Peninsula), Queen Charlotte Islands
BIOGEOCLIMATIC ZONE: CH
HABITAT: Coastal bluffs and seashores
RARE STATUS: R4

**Campanula aurita** Greene
Yukon Harebell
HERBARIA: DAO, UBC, V
REFERENCE: Porsild and Crum 1961
MAP: Hultén 1968
RANGE: Central eastern AK, s YT and n BC, east to Mackenzie
BC RANGE: Northeastern BC; Muskwa Ranges, Alberta Plateau, Fort Nelson Lowland, Liard Plain (Liard Hot Springs, Mile 397 AK Hwy., Muncho Lake, Kechika River, Summit Pass)
BIOGEOCLIMATIC ZONE: SW
HABITAT: Rock crevices, open slopes, woods
RARE STATUS: R4

**Campanula scouleri** Hook. ex DC.
Scouler's Harebell
HERBARIA: UBC, UVIC, V
MAP: Hultén 1968
RANGE: Alaska panhandle to n CA, west of the Cascades
BC RANGE: Southwestern BC; Vancouver Island, Gulf Islands
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open or dense woods, rock outcrops, talus
RARE STATUS: R4

**Campanula uniflora** L.
Arctic Harebell
HERBARIA: CAN, DAO, UBC, V
RANGE: Circumboreal, south in the Rockies to CO; Eurasia; PQ, MB, AB to BC
BC RANGE: Scattered throughout BC (Garibaldi, Summit Pass, Tundra Mountain, Mt. Bowman, Chilcotin, Clinton, Alaska Hwy., Liard Plateau, Alberta Plateau)
BIOGEOCLIMATIC ZONE: AT, ES, SW, BS
HABITAT: Rocky or grassy sites, dry ridges on tundra
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in MB

**Cardamine cordifolia** Gray
Heart-leaved Bitter Cress
HERBARIA: UBC
RANGE: Southern BC south to CA and east to WY and NM
BC RANGE: Interior Highlands (Lake Quimscoe, Cathedral Park, Penticton)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Wet ground, streambanks
RARE STATUS: R3

**Carex amplifolia** Boott in Hook.
Bigleaf Sedge
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southern BC to CA and east to ID
BC RANGE: Southern part of Province (Vernon, Nelson, Okanagan Lake, Kootenay Lake, Vancouver, Cottonwood Falls, Maple Ridge)
BIOGEOCLIMATIC ZONE: ES, IH, IF
HABITAT: Swamps and bogs
RARE STATUS: R2

**Carex arenicola** Schmidt
Sand Dune Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Calder and Taylor 1968, Taylor 1983
RANGE: Western BC to n CA
BC RANGE: Queen Charlotte Islands (Tlell River), Hope Island, Vargas Island, Numas Island
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal sands and rocky bluffs
RARE STATUS: R1

**Carex bicolor** Bellardi ex Allioni
Two-colored Sedge
HERBARIA: DAO, UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Circumpolar, south in w North America to n BC
BC RANGE: Haines road, Mason Creek
BIOGEOCLIMATIC ZONE: BS, SW, AT
HABITAT: Mossy lake shores, alpine areas
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK, MN, Continental NT

**Carex bigelowii** Torr.
Bigelow's Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983

MAP: Hultén 1968, Taylor 1983
RANGE: Circumpolar, in w North America south to BC, ID, CO and UT
BC RANGE: Northwestern BC (Haines area), Penticton (Mt. Brent), Cathedral Lakes
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine areas
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in SK, ON, NB, NH, NY, VT, WY

**Carex brevicaulis** Mackenzie
Short-stemmed Sedge
HERBARIA: DAO, UBC, V
MAP: Calder and Taylor 1968
RANGE: Southwestern BC to c CA
BC RANGE: Queen Charlotte Islands (Juskatla), Vancouver Island (near Sooke, Mt. Benson, Elk Lake, Nanaimo), Saltspring Island, lower mainland (Yale, Pemberton)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Dry soil near the coast
RARE STATUS: R4

**Carex breweri** Boott in Hook. = **C. engelmannii** Bailey

**Carex circinata** C.A. Meyer
Coiled Sedge
HERBARIA: V
REFERENCE: Taylor 1983
MAP: Calder and Taylor 1968, Taylor 1983
RANGE: Coastal AK south to WA
BC RANGE: Queen Charlotte Islands, Vancouver Island (Brooks Peninsula, Nimpkish area)
BIOGEOCLIMATIC ZONE: CH, MH
HABITAT: Rock outcrops at higher elevations
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in YT, WA

**Carex comosa** Boott
Bearded Sedge
HERBARIA: UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: MI to PQ, south to LA and FL; disjunct in s BC and ID to CA
BC RANGE: Southern BC (Oliver, Vaseaux Lake, Armstrong, Kawkawa Creek, New Westminster)
BIOGEOCLIMATIC ZONE: CH, IF, PP
HABITAT: Shallow water, edges of slow streams
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in NB, NS, TN, WA, endangered in SD, possibly extirpated in TX

**Carex crawei** Dewey
Crawe's Sedge
HERBARIA: UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: BC east to PQ and south to NJ, TN and MO
BC RANGE: Golden, Yoho Park (Wapta Falls), Kinbasket
BIOGEOCLIMATIC ZONE: ES, IH, IF
HABITAT: Wet meadows and swamps
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Carex enanderi** Hultén
Enander's Sedge
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1983
MAP: Calder and Taylor 1968, Hultén 1968, Taylor 1983
RANGE: AK to BC and AB
BC RANGE: Queen Charlotte Islands, Hotailuh Range, Lillooet area (Mt. Sampson), Ilgachuz Range (Blue Canyon Creek)
BIOGEOCLIMATIC ZONE: MH, ES
HABITAT: Alpine and subalpine meadows
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, YT

**Carex engelmannii** Bailey
Engelmann's Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southern BC to UT and CO
BC RANGE: Cascade Mtns. (between Hope and Princeton, Frosty Mtn.) Big White Mtn., Cathedral Lakes Park (Stone City)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Open slopes
RARE STATUS: R4

**Carex feta** Bailey
Green-sheathed Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southwestern BC to CA
BC RANGE: Vancouver Island (Sproat Lake, Somass), Mayne Island
BIOGEOCLIMATIC ZONE: CH, CF
HABITAT: Marshes, ditches and meadows
RARE STATUS: R4

**Carex franklinii** Boott in Hook.
Franklin's Sedge
HERBARIA: V
MAP: Hultén 1968, Porsild and Cody 1980
RANGE: Northern Asia; AK to BC, PQ and NF
BC RANGE: AK Hwy. Mile 390
BIOGEOCLIMATIC ZONE: AT
HABITAT: Calcareous alpine slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Carex geyeri** Boott
Geyer's Sedge
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: BC and AB south to n CA, UT and CO
BC RANGE: Extreme se BC (Flathead, Mt. Rowe, Moyie Lake)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Open forests, alpine meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Carex glacialis** Mackenzie
Glacial Sedge
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1983
MAP: Hultén 1968, Porsild and Cody 1980, Taylor 1983
RANGE: Circumboreal, south in w North America to BC
BC RANGE: AK Hwy. (Mile 451, Summit Lake), Haines Rd. (Mile 75), Cassiar area (south of Limestone Mtn.)
BIOGEOCLIMATIC ZONE: ES, BS
HABITAT: Dry, calcareous soil, talus slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, SK

**Carex glareosa** Wahl.
Lesser Saltmarsh Sedge
HERBARIA: DAO, V
REFERENCE: Calder and Taylor 1968, Taylor 1983
MAP: Calder and Taylor 1968, Taylor 1983
RANGE: Disjunctly circumpolar; in North America from AK, YK and NT to Atlantic Coast, south to nw BC
BC RANGE: Queen Charlotte Islands (Tlell, Masset Inlet, Kootenay Inlet), Bella Coola
BIOGEOCLIMATIC ZONE: CH
HABITAT: Saline and brackish marshes
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in YT, MB, NB

**Carex gmelinii** Hook. & Arn.
Gmelin's Sedge
HERBARIA: DAO, V
REFERENCE: Calder and Taylor 1968, Taylor 1983
MAP: Calder and Taylor 1968, Taylor 1983
RANGE: Amphi-Beringian distribution from Kamtchatka and Japan to AK and BC
BC RANGE: Queen Charlotte Islands (Tlell, Lepas Bay, Hotspring Island), Prince Rupert
BIOGEOCLIMATIC ZONE: CH
HABITAT: Salt marshes
RARE STATUS: R2

**Carex hendersonii** Bailey
Henderson's Sedge
HERBARIA: UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southwestern BC to CA
BC RANGE: Vancouver Island (Nanaimo, Nanaimo Lakes, Sayward, Qualicum, Wolfe Mtn., Ruskin, Saanichton), Fraser Lowland (Chilliwack, Point Grey, Jericho Beach)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Moist woods, alluvium
RARE STATUS: R4

**Carex heleonastes** Ehrh.
Hudson Bay Sedge
HERBARIA: UBC, V
REFERENCE: Hamet-Ahti 1965, Taylor 1983
MAP: Porsild and Cody 1980, Taylor 1983
RANGE: Circumboreal, south in w North America to n BC
BC RANGE: Spatsizi Plateau (Fire Flats), AK Hwy. Mile 276
BIOGEOCLIMATIC ZONE: ES, BS, IH, IF
HABITAT: Peat bogs, swamps
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in YT, MB, ON, PQ

**Carex hystericina** Muhl.
Porcupine Sedge
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southern BC east to NB and south to CA, TX and VA
BC RANGE: Lillooet, Cariboo District (Eagle Lake)
BIOGEOCLIMATIC ZONE: ES, IH
HABITAT: Near streams, swamps, wet meadows
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, NS, WA

**Carex incurviformis** Mackenz. in Rydb. = **C. maritima** Gunn.

**Carex inops** Bailey
Long-stoloned Sedge
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Crins and Ball 1983, Taylor 1983
MAP: Crins and Ball 1983, Taylor 1983
RANGE: Eastern Asia; s BC to n CA and NM, east to NS and SC
BC RANGE: Alberta Plateau (Hudson Hope, Taylor Flats), Vancouver Island (Victoria, Cowichan River), sw mainland (Hope, Yale)
BIOGEOCLIMATIC ZONE: BS, CH, CF
HABITAT: Open woods
RARE STATUS: R3

**Carex interrupta** Boeck.
Green-fruited Sedge
HERBARIA: UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southern BC south to OR
BC RANGE: Vancouver Island (Duncan), Fraser Lowland (Chilliwack)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Gravelly lake shores
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Carex krausei** Boeck.
Krause's Sedge
HERBARIA: V
MAP: Hultén 1968
RANGE: Disjunctly circumpolar; in w North America, AK, NT and n BC
BC RANGE: Boundary Ranges (Forrest Kerr Creek)
BIOGEOCLIMATIC ZONE: SW
HABITAT: Gravel bars
RARE STATUS: R1

**Carex lapponica** O. Lang
Lapland Sedge
HERBARIA: V
MAP: Hultén 1968, Porsild and Cody 1980
RANGE: Disjunctly circumpolar; in w North America in AK, YT, NT and ne BC
BC RANGE: Fort Nelson Lowland
BIOGEOCLIMATIC ZONE: BS
HABITAT: Peat bogs
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT

**Carex limnophila** F.J. Herm.
Pond Sedge
HERBARIA: UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: BC to OR, east to AB, WY, CO and NV
BC RANGE: Vancouver Island, Hope, Relay Creek
BIOGEOCLIMATIC ZONE: CH, CF
HABITAT: Wet meadows and streambanks
RARE STATUS: R1

**Carex luzulina** Olney var. **ablata** (Kukenth.) F.J. Herm.
Woodrush Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: BC south to n CA and east to ID and UT
BC RANGE: Vancouver Island (Mt. Mark, Forbidden Plateau, Healy Lake), Garibaldi, Manning Park, Chilliwack, Skagit, Tulameen
BIOGEOCLIMATIC ZONE: MH, ES
HABITAT: Bogs and wet meadows
RARE STATUS: R3

**Carex macrocephala** Willd.
Big-headed Sedge
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1983
MAP: Calder and Taylor 1968, Hultén 1968, Taylor 1983
RANGE: North Pacific Rim; Coastal China and Japan to AK and south to OR
BC RANGE: Queen Charlotte Islands (Tlell, Rose Spit, Lepas Bay), Vancouver Island (Ahousett, Long Beach, Ucluelet, Brooks Peninsula, Campbell River, Nanaimo, Saanich Spit, San Josef Bay), Savary Island, Iona Island, Sea Island, Calvert Island, Hope Island, Vancouver.
BIOGEOCLIMATIC ZONE: CH
HABITAT: Coastal sand dunes
RARE STATUS: R4

**Carex maritima** Gunn.
Curved-spiked Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Circumpolar, south in w North America to BC
BC RANGE: Windermere (Paradise Mine), Ilgachuz Range (Tundra Mtn.), Lillooet area (Big Dog Mtn.)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Tundra
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, SK, MB, YT

**Carex membranacea** Hook.
Fragile-seeded Sedge
HERBARIA: CAN, DAO, UBC
REFERENCE: Taylor 1983
MAP: Hultén 1968, Porsild and Cody 1980, Taylor 1983
RANGE: Northeastern Asia to AK and n PQ, south to n BC
BC RANGE: AK Hwy. (Summit Pass, 62 mi. from Ft. Nelson, Muncho Lake, Liard Plateau, Haines Road (Mile 60, 75, 98, Alsek River)
BIOGEOCLIMATIC ZONE: ES, BS
HABITAT: Wet places
RARE STATUS: R4

**Carex microglochin** Wahlenb.
Few-seeded Bog Sedge
HERBARIA: SFUV, UBC, V
REFERENCE: Reid 1978, Taylor 1983
MAP: Hultén 1968, Porsild and Cody 1980, Taylor 1983
RANGE: Circumboreal south in w North America to s BC and AB; CO
BC RANGE: Yoho National Park (Ross Lake), Nechako River, AK Hwy. (Mile 284, Liard Hot Springs), near Smithers
BIOGEOCLIMATIC ZONE: ES, BS, CA
HABITAT: Calcareous fens at high elevations
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in MB, threatened in CO

**Carex misandra** R. Br.
Short-leaved Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Hultén 1968, Porsild and Cody 1980, Taylor 1983
RANGE: Circumboreal south in w North America to BC and sw AB; CO; UT
BC RANGE: AK Hwy. (Mile 392, 428, Summit Pass), Taku River, Rob Lake, Wokkpash Lake
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Meadows above timberline
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Carex paysonis** Clokey
Payson's Sedge
HERBARIUM: DAO, UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southern BC and AB south to OR, UT, WY, MT and ID
BC RANGE: Dash Plateau, Maroon Mtn., Meager Creek, Ft. Steele, Starvation Peak
BIOGEOCLIMATIC ZONE: AT, ES, IF
HABITAT: Talus, subalpine meadows, willow-birch shrublands
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada

**Carex peckii** Howe
Peck's Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Porsild and Cody 1980, Taylor 1983
RANGE: AK to NB and south to BC, SD and MI
BC RANGE: Spahats Creek, Cariboo, Wells Gray Park, Peace River District
BIOGEOCLIMATIC ZONE: IH, CA, BS
HABITAT: Dry slopes, woods
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT, VT, IA, endangered in CO

**Carex pedunculata** Muhl.
Peduncled Sedge
HERBARIA: V
RANGE: BC to NF, south to SD, IA and GA

BC RANGE: Monashee Mountains (Grandby River)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Alluvial forests
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK, NS, IA, TN, endangered in GA, SD

**Carex pensylvanica** Lam. = **C. inops** Bailey

**Carex petricosa** Dewey
Rock Sedge
HERBARIUM: UBC
REFERENCE: Taylor 1983
MAP: Porsild and Cody 1968, Taylor 1983
RANGE: AK and YT to n BC
BC RANGE: Summit Pass
BIOGEOCLIMATIC ZONE: AT, BS
HABITAT: Alpine slopes, gravel bars
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Carex praeceptorum** Mackenz.
Teachers' Sedge
HERBARIA: UBC, V
REFERENCE: Hamet-Ahti 1965, Taylor 1983
RANGE: Southern BC south to CA and east ID, WY, UT and CO
BC RANGE: Kleena Kleene, Wells Gray Park (Battle Mtn.), Bridal Lake (west of Creston), Callaghan Lake
BIOGEOCLIMATIC ZONE: MH, ES
HABITAT: Wet meadows
RARE STATUS: R1

**Carex prairea** Dewey
Prairie Sedge
HERBARIA: V, W.L.
REFERENCE: Roberts 1983, Taylor 1983
MAP: Taylor 1983
RANGE: BC to PQ, south to New England, IA, IN, NJ
BC RANGE: Chicotin-Cariboo area (Anahim Lake, Alexis Creek, Palmer Lake)
BIOGEOCLIMATIC ZONE: CA
HABITAT: Sedge meadows, willow shrubs
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in PQ, CT

**Carex raynoldsii** Dewey
Raynold's Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southern BC and AB to CA and CO
BC RANGE: Marble Mtns., Lytton, Meager Creek, Botanie Valley, Mt. Kobau, Merritt, Banner Mtn., Akimina and Kishinena Creeks, Mt. Assiniboine
BIOGEOCLIMATIC ZONE: ES
HABITAT: Meadows and open woods
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in SK, WA

**Carex rupestris** All.
Curley Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Hultén 1968, Porsild and Cody 1980, Taylor 1983
RANGE: Circumboreal south in w North America to BC, AB and CO
BC RANGE: AK Hwy. (Muncho Lake, Summit Pass, Liard Plateau)
BIOGEOCLIMATIC ZONE: AT, BS
HABITAT: Open slopes at high elevations
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in MB

**Carex sartwellii** Dewey
Sartwell's Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Porsild and Cody 1980, Taylor 1983
RANGE: BC and AB east to ON and NY and south to CO
BC RANGE: Kamloops, Minton Creek, Nicola Lake, Kimberley, Alexis Creek, 100 Mile House, Watch Lake, Lac la Hache, Wasa, Sorenson Lake, Riske Creek, Meldrum Creek, Itcha Mtns.
BIOGEOCLIMATIC ZONE: ES, IH, IF, PP
HABITAT: Moist meadows
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT, PQ, IN, MO, NY, OH, PA

**Carex scopulorum** Holm var. **bracteosa** (Bailey) F.J. Herm.
Holm's Rocky Mountain Sedge
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southern BC south to CA and east to AB, UT and CO
BC RANGE: Cathedral Park (Glacier Lake, Scout Lake), Chilkoot Pass
BIOGEOCLIMATIC ZONE: ES, BS
HABITAT: Wet places at high elevations
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Carex simulata** Mackenz.
HERBARIA: DAO, V, W.L.
RANGE: BC to MT and south to CA
BC RANGE: Chilcotin-Cariboo area (70 Mile House, Chilco River)
BIOGEOCLIMATIC ZONE: CA
HABITAT: Wet calcareous fens
RARE STATUS: R2

**Carex sprengelii** Dewey
Sprengel's Sedge
HERBARIA: DAO, UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: BC east to NB and south to NJ, IA and CO
BC RANGE: Fraser Highland (Williams Lake, Prince George), Pender Island
BIOGEOCLIMATIC ZONE: SS, CA, IF, CF
HABITAT: Woods
RARE STATUS: R1

**Carex supina** Willd. ex Wahlenb. subsp. **spaniocarpa** (Steud.) Hultén
Spreading Arctic Sedge
HERBARIA: UBC
REFERENCE: Taylor 1983

MAP: Taylor 1983
RANGE: Circumboreal, south in w North America to n BC
BC RANGE: Atlin Lake, Tyhee Lake, Gladys Lake
BIOGEOCLIMATIC ZONE: BS, SS
HABITAT: Steppe grassland
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB, SK, ON, PQ

**Carex sychnocephala** Dewey
Many-headed Sedge
HERBARIA: UBC
REFERENCE: Taylor 1983
MAP: Hultén 1968, Porsild and Cody 1980, Taylor 1983
RANGE: BC to ON, south to WA, MT, CO and SD
BC RANGE: Central BC (Vanderhoof, Kamloops, Botanie Valley)
BIOGEOCLIMATIC ZONE: IF, PP, CA
HABITAT: Wet meadows, lake shores
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, Continental NT, PQ, MI, WI, WA

**Carex tenera** Dewey
Slender Sedge
HERBARIA: DAO, UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: BC to PQ, south to WY, IL and NC
BC RANGE: Prince George
BIOGEOCLIMATIC ZONE: CA
HABITAT: Woods
RARE STATUS: R1

**Carex tonsa** (Fern.) Bickn.
Bald Sedge
HERBARIA: V
RANGE: BC to NS and south to VA, IN, MN
BC RANGE: Rocky Mountain Trench (Tete Jaune)
BIOGEOCLIMATIC ZONE: IH
HABITAT: Sand dunes
RARE STATUS: R1

**Carex trisperma** Dewey
Three-seeded Sedge
HERBARIA: UBC, V
REFERENCE: Hamet-Ahti 1965, Pojar *et al.* 1976, Taylor 1983
MAP: Taylor 1983
RANGE: NT south to BC and east to NF and VA
BC RANGE: Quesnel Lake, Barkerville, N. Thorp River, Blue River, Wells Gray Park, Babine Lake, Burns Lake, Fort St. John, Vanderhoof, AK Hwy. mile 173, Hart Hwy.
BIOGEOCLIMATIC ZONE: SS, IH
HABITAT: Bogs and swampy areas
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, SK, Continental NT, endangered in NC

**Carex vulpinoidea** Michx.
Fox Sedge
HERBARIA: UBC
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: BC to NF and south to OR, AZ and FL
BC RANGE: Victoria, Creston
BIOGEOCLIMATIC ZONE: CF, IH
HABITAT: Sloughs, stream banks
RARE STATUS: R1

**Cassiope lycopodioides** (Pallas) D. Don
Club-moss Cassiope
HERBARIA: DAO, UBC, V
REFERENCE: Szczawinski 1975b
MAP: Calder and Taylor, 1968, Szczawinski 1975b
RANGE: Aleutian Islands, se AK, BC; east Asia
BC RANGE: Scattered in province (Queen Charlotte Islands, Vancouver Island (Brooks Peninsula), Smithers area, Clearwater)
BIOGEOCLIMATIC ZONE: MH, ES, SS, CH
HABITAT: Alpine rocky slopes and crevices
RARE STATUS: R4

**Castilleja applegatei** Fern.
Applegate's Paintbrush
HERBARIA: UBC
RANGE: Northern UT and w WY, across s-c ID to e OR, south to NV and c CA, se BC
BC RANGE: Selkirk Mountains (Revelstoke)
BIOGEOCLIMATIC ZONE: IH
HABITAT: Dry mountain slopes and summits
RARE STATUS: R1

**Castilleja cervina** Greenm.
Deer Indian Paintbrush
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern BC to adjacent n ID and WA
BC RANGE: Valleys of the dry Interior and Kootenays (Thompson Plateau, Okanagan Highland, Monashee Mountains, Purcell Mountains, Rocky Mountain Trench, Continental Ranges, Kootenay Ranges)
BIOGEOCLIMATIC ZONE: PP, IF, IH
HABITAT: Grasslands and open coniferous woods
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in WA

**Castilleja cusickii** Greenm.
Cusick's Indian Paintbrush
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Argus and White 1978, Taylor 1974a
MAP: Taylor 1974a
RANGE: WY, MT, BC, sw AB, WA, and ne OR
BC RANGE: South-central and se BC (Nicola and Columbia Valleys, Princeton, Crawford Bay, Mt. Kobau, Mt. Assiniboine, Garibaldi Park, Invermere)
BIOGEOCLIMATIC ZONE: ES, IF
HABITAT: Meadows, mountain slopes
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Castilleja elmeri** Fern.
Elmer's Indian Paintbrush
HERBARIA: UBC, V
REFERENCE: Kershaw and Morton 1976, Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern BC to WA
BC RANGE: South-central BC (Penticton, Manning Park, Placer Mtn., Mt. Kobau, Anvil Mountain)

Biogeoclimatic Zone: ES
Habitat: Mountain slopes and meadows
Rare Status: R4

**Castilleja exilis** A. Nels.
Annual Indian Paintbrush
Herbaria: DAO, UBC
Reference: Taylor 1974a
Map: Taylor 1974a
Range: BC to MT, south to OR, NM, AZ and adjacent CA
BC Range: Purcell Mountains (Mount Sabine), Osoyoos Lake
Biogeoclimatic Zone: ES, PP
Habitat: Moist grassy places, alkaline marshes and meadows
Rare Status: R1

**Castilleja gracillima** Rydb.
Slender Indian Paintbrush
Herbaria: DAO, UBC, V
Reference: Taylor 1974a
Map: Taylor 1974a
Range: WY and adjacent MT to ID and BC
BC Range: Eastern BC (Columbia Valley, Pine Pass, Mt. Robson Park)
Biogeoclimatic Zone: ES, IF
Habitat: Wet meadows and marshes
Rare Status: R4

**Castilleja hyetophila** Penn.
Coastal Red Indian Paintbrush
Herbaria: DAO, UBC, V
Map: Calder and Taylor 1968, Hultén 1968
Range: Along the coast from AK to Vancouver Island and adjacent mainland
BC Range: Queen Charlotte Lowland, Teslin Plateau, (Atlin Lake)
Biogeoclimatic Zone: CF, BS
Habitat: Salt marshes, meadows along the sea
Rare Status: R1

**Castilleja hyperborea** Penn.
Northern Indian Paintbrush
Herbaria: ALTA, CAN, DAO, UBC, V
Map: Hultén 1968
Range: West-central AK to YT and Mackenzie, n BC
BC Range: Alsek Ranges (Haines Road area)
Biogeoclimatic Zone: MH
Habitat: Stony slopes in the mountains, arctic and alpine tundra
Rare Status: R1
Status Outside BC: Rare in Continental NT

**Castilleja levisecta** Greenm.
Golden Indian Paintbrush
Herbaria: UBC, UVIC, V
Reference: Taylor 1974a
Map: Taylor 1974a
Range: Vancouver Island to c OR
BC Range: Southeastern Vancouver Island (Victoria, Trial Island, Wellington, Sidney, Alpha Islet)
Biogeoclimatic Zone: CF
Habitat: Meadows at low elevations
Rare Status: R1
Status Outside BC: Threatened in WA

**Castilleja occidentalis** Torr.
Western Indian Paintbrush
Herbaria: DAO, UBC, V
Reference: Hamet-Ahti 1965, Taylor 1974a
Map: Taylor 1974a
Range: Rocky Mountains from BC and AB to MT, south to CO and UT
BC Range: Eastern BC (in the mountains south from Glacier, Wells Gray Park, Mt. Robson Park)
Biogeoclimatic Zone: ES
Habitat: Alpine slopes and meadows
Rare Status: R3
Status Outside BC: Rare in WA

**Castilleja raupii** Penn.
Raup's Indian Paintbrush
Herbaria: ALTA, SFUV, UBC, V
Reference: Porsild and Crum 1961, Taylor 1974a
Map: Hultén 1968, Taylor 1974a
Range: AK to NT, south to BC and AB to n ON, PQ
BC Range: Extreme ne BC (Liard Hot Springs, Muncho Lake, Fort Nelson)
Biogeoclimatic Zone: BS
Habitat: Moist soil along streams and lakes, in swamps
Rare Status: R4
Status Outside BC: Rare in PQ

**Castilleja rhexifolia** Rydb.
Alpine Indian Paintbrush
Herbaria: CAN, UBC, V, WS
Reference: Hamet-Ahti 1965, Taylor 1974a
Map: Taylor 1974a
Range: Rocky Mountains from AB and BC, south to CO and UT, west through ID, to OR
BC Range: Scattered throughout BC, south from about Lat. 53°N; apparently absent from Vancouver Island
Biogeoclimatic Zone: AT, MH, ES
Habitat: Alpine and subalpine meadows and slopes
Rare Status: R3

**Castilleja rupicola** Piper
Cliff Indian Paintbrush
Herbaria: UBC, V
Reference: Taylor 1974a
Map: Taylor 1974a
Range: Cascade Mountains from BC to OR
BC Range: Southwestern BC (Skagit Valley, Lytton, Mt. Cheam, Mt. Brunswick)
Biogeoclimatic Zone: MH
Habitat: Cliffs and rocky places
Rare Status: R4

**Castilleja sulphurea** Rydb.
Sulphur Indian Paintbrush
Herbaria: DAO, UBC, V
Reference: Taylor 1974a, Ulke 1934
Map: Taylor 1974a
Range: Southern AB and e BC, south to w MT, CO, UT and NM
BC Range: Northern and e BC, largely east of the Rocky Mtns., south from Mt. Robson (Kinbasket, Azouzetta Lake, Mt. Egnell, Yoho National Park, Kimberley, Flathead, Creston, Pouce Coupe, Telegraph Creek, Moberly Lake)

BIOGEOCLIMATIC ZONE: AT, ES, IF, CA
HABITAT: Moist meadows and slopes
RARE STATUS: R4

**Castilleja thompsonii** Penn.
Thompson's Indian Paintbrush
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern BC and WA
BC RANGE: South-central and se BC (Okanagan Valley, Cathedral Lakes, Cranbrook, Spotted Lake, Similkameen River Valley)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry soils
RARE STATUS: R4

**Catabrosa aquatica** (L.) Beauv.
Whorl Grass
HERBARIA: CAN, UBC, V
REFERENCE: Fernald 1933
MAP: Hultén 1958, 1968
RANGE: Circumboreal, AK, Labrador, BC to NF, south through ID and e OR to NV, AZ, CO, IA and WI; Europe north to subarctic regions
BC RANGE: Continental Ranges — Fernie Basin (Fernie)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Wet meadows, streambanks, pond and lake margins
RARE STATUS: R1

**Caucalis microcarpa** H. & A.
California Hedge Parsley
HERBARIA: CAN, UBC, V
RANGE: Southern BC through WA and ID to Baja CA; MX
BC RANGE: Nanaimo Lowland (James Island, Wellington, Nanaimo, Saturna Island, Mayne Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Along streams, open vernally moist slopes
RARE STATUS: R2

**Centaurium exaltatum** (Griseb.) Wight ex Piper
Western Centaury
HERBARIA: DAO, UBC, V, WS
REFERENCE: Gillett 1963
RANGE: East of the Cascades, WA to NE, south to CO and e CA, se BC, east to ID and south through UT and NV to AZ
BC RANGE: Thompson Plateau and Okanagan Highland (Osoyoos, Oliver)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Moist places, near hot springs and alkaline lakes
RARE STATUS: R1

**Centaurium muhlenbergii** (Griseb.) Wight ex Piper
Muhlenberg's Centaury
HERBARIA: CAN, UBC, V
REFERENCE: Gillett 1963
RANGE: Eastern WA, s to NV through Columbia Gorge to Willamette Valley and to coastal and c CA, sw BC
BC RANGE: Fraser Lowland, Nanaimo Lowland; (Chatham Island, Stanley Park)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Moist soil
RARE STATUS: R1

**Centunculus minimus** L. = **Anagallis minima** (L.) Krause in Sturm

**Cephalanthera austinae** (Gray) A. Heller
Austin's Phantom Orchid
HERBARIA: UBC, V, B.C.D.A.V.
REFERENCE: Long 1979, Luer 1975, Szczawinski 1975a
MAP: Luer 1975, Szczawinski 1975a
RANGE: BC south to CA and east to ID
BC RANGE: Gulf Islands (Saltspring Island), Fraser River Valley (Chilliwack, Agassiz, Sardis, Cultus Lake, Mission)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Moist, dense coniferous forests, forested mountain slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Cerastium fischerianum** Seringe in DC.
Fischer's Chickweed
HERBARIA: CAN, DAO, UBC, V
MAP: Calder and Taylor 1968, Hultén 1968
RANGE: Coastal and insular s and sw AK, w-c BC; Asia
BC RANGE: Queen Charlotte Mtns. — Queen Charlotte Ranges, Skidegate Plateau; Vancouver Island Mtns. — Estevan Coastal Plain (Long Inlet, Mitchell Inlet, Skidegate, Kyuquot)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Hillsides, lakeshores, gravelly spits
RARE STATUS: R1

**Cerastium nutans** Raf. var. **nutans**
Nodding Chickweed
HERBARIA: CAN, DAO, UBC, V, WS
RANGE: Southern AK, s NT, ne BC to sw PQ and NS, south to w OR, ID, UT, AZ and SC
BC RANGE: Southern BC (Hell's Gate, Armstrong, Kamloops, Trout Lake, Marysville, Hanceville), Peace River District
BIOGEOCLIMATIC ZONE: PP, CF, CH, CA
HABITAT: Dry to moist banks and woodlands
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in PQ

**Ceratophyllum echinatum** Gray
Spring Hornwort
HERBARIA: UBC, V
REFERENCE: Ceska and Ceska 1980
RANGE: Southern BC, east to MI and ME, south to FL and MX
BC RANGE: Vancouver Island (Victoria, Nanaimo, Campbell River), lower mainland (Agassiz), Gulf Islands (South Pender, Prevost), AK Hwy. Mile 282
BIOGEOCLIMATIC ZONE: CF, BS
HABITAT: Lakes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in MB, PQ, NB, OH, VT

**Chaenactis alpina** (Gray) M.E. Jones
Alpine False Yarrow
HERBARIA: V
RANGE: BC south to MT, OR, UT and CO
BC RANGE: Nine Mile Ridge (Yalacoma River)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine scree
RARE STATUS: R1

**Chaenactis douglasii** (Hook.) H. & A. var. **montana** M.E. Jones
Hoary False Yarrow
HERBARIA: DAO, UBC, V
RANGE: Southern BC and MT south to CO and UT
BC RANGE: Fraser Plateau (Noaxe Lake, Elizabeth Mine)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Alpine and subalpine talus slopes
RARE STATUS: R3

**Cheilanthes feei** T. Moore
Slender Lip Fern
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1971
MAP: Taylor 1971
RANGE: Southern BC east to WI and south to n MX
BC RANGE: South-central and e BC (Canal Flats, Fairmont Hot Springs, Hanceville, Riske Creek, Alkali Lake, Marble Canyon)
BIOGEOCLIMATIC ZONE: CA, IF
HABITAT: Limestone cliffs
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, WA, OR, IA, endangered in MN

**Chrysanthemum arcticum** L. = **Leucanthemum arcticum** (L.) DC.

**Chrysanthemum integrifolium** J. Richardson = **Leucanthemum integrifolium** (J. Richardson) DC.

**Chrysothamnus viscidiflorus** (Hook.) Nutt. subsp. **lanceolatus** (Nutt.) H.M. Hall & Clem.
Douglas' Rabbitbrush
HERBARIA: CAN, DAO, GD, UBC, V
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: Southern BC east to ND and south to CA and MX
BC RANGE: Okanagan Highland (Osoyoos, Anarchist Mountain)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Dry sagebrush hillsides
RARE STATUS: R2

**Cicuta bulbifera** L.
Bulbous Water-hemlock
HERBARIA: DAO, UBC, V
REFERENCE: Mulligan 1980
MAP: Hultén 1968, Mulligan 1980
RANGE: NT, BC, n AB, n SK south to s OR, east to NF, VA and NE
BC RANGE: Scattered in e and c BC (Prince George area, Smithers area, Procter Lake, Cranbrook, Burns Lake, Valemont — Albreda area, Fort Nelson)
BIOGEOCLIMATIC ZONE: SS, CA, IF, CF, CH
HABITAT: Marshes, bogs, wet meadows, shallow standing water
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT, YT, WA, endangered in OR

**Cicuta mackenzieana** Raup
Mackenzie's Water-hemlock
HERBARIA: DAO, UBC
REFERENCE: Mulligan 1980
MAP: Hultén 1968, Mulligan 1980
RANGE: Western AK, c YT and n BC east to Hudson Bay, PQ
BC RANGE: Fort Nelson Lowland (AK Hwy — near mile 308, Progress)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Marshes, lake and pond margins, along streams
RARE STATUS: R1

**Cimicifuga elata** Nutt.
Tall Bugbane
HERBARIA: CAN, UBC, V
RANGE: Southern BC to nw OR, west of the Cascades
BC RANGE: Skagit Range (Mt. Cheam, Mt. Liumchen, Chilliwack River)
BIOGEOCLIMATIC ZONE: MH, CF
HABITAT: Moist woods at lower elevations
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Cirsium drummondii** T. & G.
Drummond's Thistle
HERBARIA: DAO, V
REFERENCE: Moore and Franklin 1974
MAP: Moore and Franklin 1974, Porsild and Cody 1980
RANGE: NT south to ne BC, east to n ON and south to WY and SD
BC RANGE: Alberta Plateau
BIOGEOCLIMATIC ZONE: BS
HABITAT: Moist open fields
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT, ON, WY

**Clarkia amoena** (Lehm.) Nels. & Macbr.
Farewell-to-spring
HERBARIA: DAO, UBC, V
RANGE: Southwestern BC south to c CA
BC RANGE: Vancouver Island (Shawnigan Lake, Victoria, Nanaimo), Mayne Island, Saturna Island
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open or wooded dry, grassy areas
RARE STATUS: R4

**Clarkia pulchella** Pursh
Pinkfairies
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern BC, south to se OR, east to ID and w MT
BC RANGE: Southern BC (Anarchist Mtn., Midway, Grand Forks, Trail, Creston, Crawford Bay, Wynndel)
BIOGEOCLIMATIC ZONE: ES, IF, PP
HABITAT: Open or wooded dry, grassy areas
RARE STATUS: R4

**Clarkia rhomboidea** Dougl. ex Hook.
Common Clarkia
HERBARIA: UBC, V
RANGE: Southern BC south to s CA, east to ID, UT and AZ
BC RANGE: Monashee Mtns.; Selkirk Mtns. (Trail and vicinity)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Open or wooded dry, grassy slopes
RARE STATUS: R1

**Claytonia cordifolia** S. Wats.
Heart-leaved Spring Beauty
HERBARIA: CAN, UBC, V
RANGE: Southern BC (Vancouver Island, Kootenay Lake, Nelson, Trail, Salmo, Sandon, Monashee Park)
BIOGEOCLIMATIC ZONE: IH, CF, CH
HABITAT: Shaded streams, marshy flats
RARE STATUS: R3

**Claytonia megarhiza** (Gray) S. Wats.
Alpine Spring Beauty
HERBARIA: CAN, DAO, UBC, V, WTU
MAP: Hultén 1968
RANGE: Central AK through BC to WA, OR, NV, UT, CO and NM
BC RANGE: Border Ranges (Goat Mountain, near Waterton Lakes National Park)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Gravelly soil, talus slopes, rock crevices
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT, WA

**Claytonia saxosa** Brandeg.
Brandegee's Spring Beauty
HERBARIA: UBC, V
REFERENCE: McNeill 1975
RANGE: Southern BC through the w US, east to MT, UT and AZ
BC RANGE: Nanaimo Lowland (Oak Bay)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Rocky places
RARE STATUS: R1

**Claytonia spathulata** Dougl. ex Hook.
Pale Spring Beauty
HERBARIA: UBC, UVIC, V
RANGE: BC to c CA
BC RANGE: Nanaimo Lowland; Fraser Lowland; Georgia Lowland; Bulkley Ranges (Victoria, Saanichton, Hornby Island, Comox, Boundary Bay, Savary Island, South Hazelton area)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Rocky slopes, snow beds
RARE STATUS: R2

**Claytonia tuberosa** Pallas ex Willd. in Roemer & Schultes
Tuberous Spring Beauty
HERBARIA: CAN, UBC, V, WTU
MAP: Hultén 1968
RANGE: Extreme n Canada, e AK, s YT, n BC; Asia
BC RANGE: Liard Plateau; Muskwa Ranges; Continental Ranges — Park Ranges (Horsey Creek, Liard Plateau, Toad River)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Wet places, stony mountain slopes
RARE STATUS: R2

**Cochlearia officinalis** L.
Common Scurvy-grass
HERBARIA: DAO, UBC, UVIC, V
RANGE: Circumboreal, south in w North America to nw OR
BC RANGE: Queen Charlotte Islands (Tlell River, Sanger River, Juskatla, Cape St. James, Masset, Claudet Is., Bolkus Is.), Vancouver Island (Hardy Bay Flats, Grassy Is., Nimpikish River), Prince Rupert, Moore Islands
BIOGEOCLIMATIC ZONE: CH
HABITAT: Salt marshes, mud flats
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in MB, ON, WA

**Collomia heterophylla** Hook.
Diverse-leaved Collomia
HERBARIA: DAO, UBC, UVIC, V
RANGE: West of the Cascade summits from WA and adjacent BC to CA, also in n ID, AZ, WY
BC RANGE: Southwestern BC (Vancouver Island and Lower Fraser Valley)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Woods, forest openings, loose stream banks
RARE STATUS: R4

**Comandra umbellata** (L.) Nutt. subsp. **californica** (Eastw. ex Rydb.) Piehl
California Comandra
HERBARIA: DAO, UBC, V
MAP: Piehl 1965
RANGE: West-central YT to BC and AB, south to WA, OR, CA and n AZ; Europe
BC RANGE: North-central and s BC (Elk Lake, Colwood, Lytton, Keremeos, Summerland, Ingenika River)
BIOGEOCLIMATIC ZONE: CF, IF, PP
HABITAT: Sandy, well-drained soil, sagebrush desert
RARE STATUS: R3

**Convolvulus soldanella** L. = **Calystegia soldanella** (L.) R. Br. ex Roemer & Schultes

**Coreopsis atkinsoniana** Dougl. in Lindl.
Atkinson's Coreopsis
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern BC east to SD and south to OR
BC RANGE: Okanagan Highland (Osoyoos), Columbia River Valley (Waneta, Remack)
BIOGEOCLIMATIC ZONE: PP, IF
HABITAT: Sandy benches by freshwater lakes and rivers
RARE STATUS: R1

**Cornus suecica** L.
Dwarf Bog Bunchberry
HERBARIA: DAO, UBC, V
MAP: Calder and Taylor 1965, 1968, Hultén 1958
RANGE: Southern and w AK, coastal BC, NS, PQ, NF, Labrador; Greenland, Eurasia
BC RANGE: Boundary Ranges; Kitimat Ranges (Taku River, Douglas Channel)
BIOGEOCLIMATIC ZONE: SW, BS
HABITAT: Woods, marshes, bogs, alpine tundra
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT, NS

**Corydalis scouleri** Hook.
Scouler's Corydalis
HERBARIA: CAN, DAO, UBC, V, WS
MAP: Ownbey 1947
RANGE: BC to n OR, from the coast to the w slope of the Cascades
BC RANGE: Vancouver Island Mtns. (Nitinat Lake, Big Nitinat River)

BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Moist soil, partial to deep shade
RARE STATUS: R1

**Crassula aquatica** (L.) Schoenl.
Pigmyweed
HERBARIA: SFUV, UBC, V
REFERENCE: Brooke *et al.* 1984
RANGE: Circumpolar (with large gaps), south in w North America to AK, NT, south to s BC; MX
BC RANGE: Vancouver Island (Port Alberni, Campbell River), Gulf Islands (Mitlenatch Is.), lower mainland (Pitt Lake, Hatzic Lake, Harrison Lake, Stave Lake), Kootenay Mtns. (Crawford Bay, Kootenay River)
BIOGEOCLIMATIC ZONE: IH, CF
HABITAT: Vernal pools, mud flats
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in NS, Continental NT, YK, CO, WY, CT, endangered in MN

**Crassula erecta** (H. & A.) Berger
Erect Pigmyweed
HERBARIA: UBC, V
REFERENCE: Ceska and Ceska 1980
RANGE: Southern BC south to AZ and MX (Baja CA); Chile
BC RANGE: Southern Vancouver Island and Gulf Islands (Victoria, Sidney Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: grassy bluffs
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Crepis modocensis** Greene
Modoc Hawk's-beard
HERBARIA: DAO
RANGE: Southern BC to MT and south to OR
BC RANGE: Thompson Plateau (Spences Bridge, Tranquille)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Open sagebrush hillsides
RARE STATUS: R1

**Crepis occidentalis** Nutt. subsp. **pumila** (Rydb.) Babc. & Stebb.
Dwarf Western Hawk's-beard
HERBARIA: DAO, UBC, V
REFERENCE: Douglas and Ruyle-Douglas 1978
RANGE: Southern BC and MT south to CA
BC RANGE: Fraser Plateau (Tchaikazan Valley), Thompson Plateau (Stump Lake), Cascade Mountains (Manning Park)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Exposed scree slopes
RARE STATUS: R2

**Crocidium multicaule** Hook.
Common Spring-gold
HERBARIA: CAN, UBC, V
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: Southwestern BC south to CA
BC RANGE: Eastern and s Vancouver Island (Parksville, Comox, Campbell River, Duncan, Sooke), Gulf Islands (Saltspring, Galiano)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Sand dunes, sea bluffs
RARE STATUS: R4

**Cryptantha affinis** (Gray) Greene
Common Cryptantha
HERBARIA: CAN, DAO, UBC, V
RANGE: WA and s BC, e of the Cascade summits to n MT, sw AB, south to s CA, n NV and s WY
BC RANGE: Southern BC (Creston, Nelson, Oliver, Penticton, Kimberley, Anahim Lake, Bella Coola)
BIOGEOCLIMATIC ZONE: PP, IF, CH, CA
HABITAT: Open or thinly wooded slopes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Cryptantha ambigua** (Gray) Greene
Obscure Cryptantha
HERBARIA: CAN, DAO, UBC, V
RANGE: Eastern WA and adjacent s BC to MT, south to n CO, w NV and ne CA
BC RANGE: Southern BC; Purcell Mountains, Border Ranges (Flathead Basin), Thompson Plateau, Monashee Mountains (Kimberley, Flathead, Osoyoos, Keremeos, Midway)
BIOGEOCLIMATIC ZONE: PP, IF, IH
HABITAT: Dry open places
RARE STATUS: R1

**Cryptantha celosioides** (Eastw.) Payson
Cockscomb Cryptantha
HERBARIA: CAN, DAO, UBC, V, WS
RANGE: Eastern OR from Grant County to n WA to s BC, east through n ID to MT, s AB, ND to NE
BC RANGE: South-central BC; Shuswap Highland, Thompson Plateau, Selkirk Mountains (Armstrong, Fairview, Osoyoos, Summit of Salmo-Creston Highway)
BIOGEOCLIMATIC ZONE: IF, ES, PP
HABITAT: Dry open places in valleys, plains and foothills
RARE STATUS: R1

**Cryptantha circumscissa** (H. & A.) Johnst.
Matted Cryptantha
HERBARIA: UBC
RANGE: Central WA to s BC to Baja CA, east through the Snake River plains of ID to UT and AZ; Chile, Argentina
BC RANGE: South-central BC; Thompson Plateau (Spences Bridge)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Dry open, sandy places on lowlands
RARE STATUS: R1

**Cryptantha fendleri** (Gray) Greene
Fendler's Cryptantha
HERBARIA: DAO, UBC, V
REFERENCE: Johnston 1925
RANGE: Franklin County WA and Umatillo County OR irregularly to SK, NE, NM and NV, s-c BC, s AB and SK to e NE, n NM and AZ; e WA and w NV
BC RANGE: South-central BC; Thompson Plateau, Monashee Mountains (Osoyoos, Cascade, Merritt)
BIOGEOCLIMATIC ZONE: PP, IF
HABITAT: Sandy soil, sand dunes
RARE STATUS: R1

**Cryptantha intermedia** (Gray) Greene
Large-flowered Cryptantha
HERBARIA: CAN, UBC, V
RANGE: Southern BC to CA east to the w fringe of ID
BC RANGE: Northeastern BC; Rocky Mountain Foothills (Nevis Creek), Nanaimo Lowland (Nanaimo)
BIOGEOCLIMATIC ZONE: IF, CF
HABITAT: Open dry slopes
RARE STATUS: R1

**Cryptogramma stelleri** (S.G. Gmel.) Prantl
Slender Cliff-brake
HERBARIA: CAN, UBC, V
REFERENCE: Haber and Soper 1980, Taylor 1971
MAP: Taylor 1971
RANGE: Disjunct from Ural Mountains, through Asia and North America; south in w North America to OR and CO
BC RANGE: Scattered in Province (Taku Plateau, Stikine Plateau, Muskwa Ranges, Wells Gray Park, Alice Arm, Field, Revelstoke, Pine Valley, Glacier Park, Fernie, Port Alberni, Gold River)
BIOGEOCLIMATIC ZONE: MH, IF, IH, ES, AT
HABITAT: Shaded rock crevices, on limestone
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in YT, Continental NT, NS, NF, MI, NH, ME, WV, OR, WA, PA, IA, endangered in CO, CT, threatened in MA

**Cuscuta pentagona** Engelm. = **Grammica pentagona** (Engelm.) W.A. Weber

**Cuscuta salina** Engelm. = **Grammica salina** (Engelm.) Taylor & MacBryde

**Cynoglossum grande** Dougl. ex Lehm.
Pacific Hound's-tongue
HERBARIA: UBC
REFERENCE: Clark 1973
RANGE: West of the Cascades in extreme s BC to San Luis Obispo and Tulare counties CA
BC RANGE: Southern Kootenays
BIOGEOCLIMATIC ZONE: IH, IF
HABITAT: Woods at lower elevations
RARE STATUS: R1

**Cyperus aristatus** Rottb.
Awned Cyperus
HERBARIA: UBC, V, B.C.D.A.V.
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Cosmopolitan
BC RANGE: Osoyoos Lake, Kamloops, Penticton, Keremeos, Tranquille, Vancouver Island (Great Central Lake)
BIOGEOCLIMATIC ZONE: CF, CH, IF
HABITAT: Wet places
RARE STATUS: R2

**Cyperus erythrorhizos** Muhl.
Red-rooted Cyperus
HERBARIA: V
REFERENCE: Ceska and Ceska 1980
RANGE: Southern BC and s ON south to TX and AZ
BC RANGE: Osoyoos Lake
BIOGEOCLIMATIC ZONE: PP
HABITAT: Inundated lake shore
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada

**Cypripedium calceolus** L.
Small Yellow Lady's-slipper
HERBARIA: CAN, DAO, SFUV, UBC, V
REFERENCE: Luer 1975, Porsild and Crum 1961, Szczawinski 1975a
MAP: Hultén 1958, 1968; Luer 1975, Szczawinski 1975a
RANGE: AK, YT, NT to NF, south to BC, OR, AZ, CO and NM, through New England to GA and west to TX; Eurasia
BC RANGE: Southwest and se Interior, scattered in n Interior (Liard Hot Springs, Windermere, Summerland, Kamloops, Kelowna, Lillooet, Armstrong, Vernon, Lytton, Sycamous)
BIOGEOCLIMATIC ZONE: ES, BS, SS, CA, IH, IF
HABITAT: Mossy swamps and woods, damp shores, along streams
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in YT, PQ, AL, AZ, IA, LA, OK, WY, IL, IN, MI, PA, ID, MA, MN, DE, RI, KY, KS, AR, threatened in NS, WA, WI, endangered in NH, MS, TX, VT, CO, ND, OR, UT, rare in USSR

**Cypripedium montanum** Dougl. ex Lindl.
Mountain Lady's-slipper
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Luer 1975, Szczawinski 1975a
MAP: Hultén 1968, Luer 1975, Szczawinski 1975a
RANGE: AK, BC to SK, south to CA, MT and ID
BC RANGE: Southwest and se Interior (Telegraph Creek, Victoria, Armstrong, Quesnel, Spences Bridge, Prince George, Kelowna, Lillooet, Kamloops, Summerland, Fairmont Hot Springs)
BIOGEOCLIMATIC ZONE: BS, SS, CA, IH, IF, PP, CF
HABITAT: Moist or dry open woods, subalpine slopes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, OR, threatened in WA

**Cypripedium passerinum** Richards.
Sparrow's-egg Lady's-slipper
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Luer 1975, Porsild and Crum 1961, Szczawinski 1975a
MAP: Hultén 1968, Luer 1975, Szczawinski 1975a
RANGE: AK, YT, NT, BC to PQ
BC RANGE: Throughout n and se BC (Windermere, Muncho Lake, Atlin, Hudson Hope, Field, Clearwater Lake, Liard Hot Springs, Pavilion, west of Yoho National Park)
BIOGEOCLIMATIC ZONE: ES, BS, IH, IF
HABITAT: Mossy woods, near lakes and streams, talus slopes
RARE STATUS: R3

**Cystopteris montana** (Lam.) Bernh.
Mountain Bladder Fern
HERBARIA: UBC, V
REFERENCE: Roemer and Ogilvie 1983, Taylor 1971
MAP: Hultén 1968, Taylor 1971
RANGE: Circumboreal, south in w North America to s BC, nw MT and CO

BC Range: Scattered distribution in Province (Barkerville, Dease Lake, Wells Gray Park, Kootenay National Park, Pine Pass, Mackenzie, Bennett, Mile 81 AK Hwy, Creston Lake, Mt. La Perouse)
Biogeoclimatic Zone: ES, BS, SS, IH
Habitat: Damp woods, rocky slopes
Rare Status: R3
Status Outside BC: Rare in Continental NT, AB, SK, ON, PQ, endangered in CO

**Danthonia sericea** Nutt.
Downy Oat Grass
Herbaria: UBC, V
Reference: Hitchcock 1951
Range: Eastern MA and NJ to n FL, KY and LA; BC
BC Range: Quesnel Highland (Wells Gray Provincial Park)
Biogeoclimatic Zone: SS
Habitat: Sand barrens
Rare Status: R1

**Daucus pusillus** Michx.
American Wild Carrot
Herbaria: UBC, V
Range: Southern BC to Baja CA, east to MO, SC and FL
BC Range: Vancouver Island (Cowichan Lake, Victoria, Nanaimo, Nanoose Hill), Gulf Islands (Saltspring, Mayne, Saturna, Hornby), Lund
Biogeoclimatic Zone: CF
Habitat: Dry open places at lower elevations, rock outcrops
Rare Status: R4

**Delphinium bicolor** Nutt. & Wyeth
Montana Delphinium
Herbaria: DAO, UBC, V
Range: Southeastern BC, n-c ID east to AB, SK, w SD
BC Range: Continental and Border Ranges (Crowsnest, Wall Lake)
Biogeoclimatic Zone: ES
Habitat: Subalpine scree
Rare Status: R2

**Delphinium burkei** Greene
Burke's Delphinium
Herbaria: DAO, UBC, V
Range: Southeast BC to OR, east to ID and n WY
BC Range: Southern Monashee and Selkirk Mountains (Kootenay Ranges to Midway)
Biogeoclimatic Zone: IF
Habitat: Wet meadows to sagebrush desert
Rare Status: R2

**Delphinium depauperatum** Nutt.
Slim or Dwarf Delphinium
Herbaria: UBC
Range: Central OR to CA, east to MT and NV
BC Range: Southern Border Ranges (Sage Creek area)
Biogeoclimatic Zone: ES
Habitat: Moist meadowland, dry in summer
Rare Status: R1
Status Outside BC: Rare in WA

**Deschampsia danthonioides** (Trin.) Munroe ex Benth.
Annual Hair Grass
Herbaria: UBC, V
Reference: Hubbard 1955
Map: Hultén 1968
Range: AK to Baja CA, east to w MT, UT and AZ; Chile
BC Range: Scattered distribution in s BC (Cabbage Island, Victoria, Nanaimo, Surrey, Erickson, Kelowna, Armstrong)
Biogeoclimatic Zone: CF, CH, IF, PP
Habitat: Roadsides, dry banks, drying vernal pools, dry mountain meadows
Rare Status: R3

**Deschampsia flexuosa** (L.) Trin.
Wavy Hair Grass
Herbaria: CAN, DAO, UBC, V
Reference: Kershaw and Morton 1976
Map: Hultén 1968
Range: Westernmost Aleutians, AK Panhandle, e North America, BC south to AR; Eurasia
BC Range: Fraser Lowland (Vancouver)
Biogeoclimatic Zone: CF, CH
Habitat: Dry slopes and woods, disturbed sites
Rare Status: R1

**Diapensia lapponica** L.
Diapensia
Herbaria: UBC, V
Range: Circumpolar, south in w North America to n BC
BC Range: North-central BC (Horseranch Range)
Biogeoclimatic Zone: AT
Habitat: Rocky tundra
Rare Status: R1
Status Outside BC: Rare in MB, Continental NT, NS, ME, NH, NY, threatened in VT

**Diapensia obovata** (Fr. Schmidt) Nakai = **D. lapponica** L.

**Dicentra uniflora** A. Kellogg
Steer's-head
Herbaria: DAO, UBC, V
Range: Southern BC, WA and south to CA, east to ID, WY and UT
BC Range: Hozameen Range; Shuswap Highland; Monashee Mtns. (Manning Park, Armstrong, Rossland, Phoenix)
Biogeoclimatic Zone: ES, IH, IF, PP
Habitat: Well-drained soil from foothills to subalpine slopes
Rare Status: R1

**Disporum smithii** (Hook.) Piper
Smith's Fairybells
Herbaria: CAN, DAO, UBC, V
Reference: Jones 1951, Taylor 1974b
Map: Jones 1951, Taylor 1974b
Range: BC to CA, west of the Cascades
BC Range: Vancouver Island Mtns. — Vancouver Island Ranges, Estevan Coastal Plain; Nanaimo Lowland (Cowichan Lake, Gordon River, Nitinat River, Port Renfrew, Nootka Sound)
Biogeoclimatic Zone: CF, CH
Habitat: Light to deep woods, where moist; streambanks
Rare Status: R2

**Dodecatheon dentatum** Hook.
White Shootingstar
HERBARIA: GD, UBC, V
REFERENCE: Taylor *et al.* 1975
RANGE: East side of the Cascades from s BC and WA to n OR, c ID, UT
BC RANGE: Southcentral BC (Penticton, Keremeos, Manning Park, Cathedral Lakes, Summerland, Apex Mountain, Princeton)
BIOGEOCLIMATIC ZONE: AT, ES, PP
HABITAT: Waterfalls, streambanks, shaded moist slopes
RARE STATUS: R3

**Dodecatheon hendersonii** Gray
Henderson's Shootingstar
HERBARIA: CAN, DAO, UBC, UVIC, V
REFERENCE: Taylor *et al.* 1975
RANGE: Southwestern BC, south on the west side of the Cascades to s OR, in the Coast Range and Sierra Nevada to s CA
BC RANGE: Vancouver Island (Esquimalt, Victoria, Shawnigan Lake, Gabriola Island, Saanich Peninsula, Thetis Lake), Lower Fraser Valley to Yale
BIOGEOCLIMATIC ZONE: CF
HABITAT: Woods and prairies
RARE STATUS: R4

**Douglasia gormanii** Constance
Gorman's Douglasia
HERBARIA: UBC
REFERENCE: Pojar *et al.* 1976
MAP: Hultén 1968, Porsild 1966
RANGE: Northern BC, AK, w YT
BC RANGE: Spatsizi Plateau
BIOGEOCLIMATIC ZONE: AT
HABITAT: Stony slopes in mountains, alpine tundra
RARE STATUS: R1

**Douglasia laevigata** Gray
Smooth Douglasia
HERBARIA: DAO, UBC, V, WS
REFERENCE: Henderson 1981, Kershaw and Morton 1976
MAP: Calder and Taylor 1968, Henderson 1981
RANGE: West of the Cascades in WA and OR and in the Columbia Gorge, Vancouver Island, sw AB
BC RANGE: Queen Charlotte Islands, Vancouver Island (Brooks Peninsula)
BIOGEOCLIMATIC ZONE: AT, MH
HABITAT: Talus slopes, rocky alpine ledges, moist coastal bluffs
RARE STATUS: R1

**Douglasia montana** Gray
Rocky Mountain Douglasia
HERBARIA: DAO
REFERENCE: Argus and White 1978
RANGE: Northern WY to Waterton Lakes, AB, west to ID
BC RANGE: Extreme se BC
BIOGEOCLIMATIC ZONE: ES
HABITAT: Foothills, open ridges, scree slopes in mountains
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, ID

**Downingia elegans** (Dougl. ex Lindl.) Torr.
Common Downingia
HERBARIA: CAN, UBC, V
RANGE: OR and n CA to c and e WA, n ID, n NV and sw BC
BC RANGE: Southeastern BC; Selkirk mountains (Creston)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Vernal pools, wet meadows, edges of ponds
RARE STATUS: R1
NOTE: Possibly extirpated in Province

**Draba cinerea** J.E. Adams
Gray-leaved Whitlow-grass
HERBARIA: UBC, V
REFERENCE: Mulligan 1971a
MAP: Hultén 1968, Mulligan 1971a, Porsild and Cody 1980
RANGE: Circumpolar, south in w North America to n BC and n SK
BC RANGE: Pine Pass, Mt. Edziza, Hotoiluk Range, Mt. Selwyn, between Stikine and Tanzilla Rivers
BIOGEOCLIMATIC ZONE: AT, SW, BS
HABITAT: Tundra, talus slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK, ON, PQ

**Draba densifolia** Nutt. in Torr. & Gray
Nuttall's Whitlow-grass
HERBARIA: UBC
RANGE: AK and YT south to c CA, east to MT and UT; ne Siberia
BC RANGE: Teresa Island, Summit Lake, Apex Mtn., Green Mtn.
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Rock ledges, talus slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Draba fladnizensis** Wulfen in Jacq.
Austrian Whitlow-grass
HERBARIA: UBC
REFERENCE: Mulligan 1974
MAP: Mulligan 1974, Porsild and Cody 1980
RANGE: Circumboreal south in w North America to w MT, CO and se UT
BC RANGE: Spatsizi Plateau (Cold Fish Lake, Gladys Lake), Mt. Edziza, Summit Lake
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Tundra, rocky slopes, lava talus
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, MB, WA, CO

**Draba glabella** Pursh
Smooth Whitlow-grass
HERBARIA: UBC
REFERENCE: Mulligan 1970
MAP: Mulligan 1970, Porsild and Cody 1980
RANGE: Circumpolar south in w North America to n BC
BC RANGE: Cassiar, AK Hwy. (Mile 75, Mile 410)
BIOGEOCLIMATIC ZONE: AT, ES, SW, BS
HABITAT: Talus slopes, rocky areas
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, MB, NS, NB, WY, CO, NY

**Draba hyperborea** (L.) Desv.
Northern Pacific Whitlow-grass
HERBARIA: CAN, UBC, V
REFERENCE: Calder and Taylor 1968
MAP: Calder and Taylor 1968, Hultén 1968
RANGE: Eastern Asia to AK and BC
BC RANGE: Queen Charlotte Islands (Langara Is., Lepas Bay, Dawson Harbour, Pillar Bay, Bolkus Is., Gray Bay, Tufts Islets, Gowdas Is., Skedans, Tasu, Cape St. James, Dupont Is.), Vancouver Island (Triangle Is., Cape Scott)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Seacoast cliffs, bird-nesting islets
RARE STATUS: R4

**Draba lactea** M.F. Adams
Milky Whitlow-grass
HERBARIA: UBC, V
MAP: Hultén 1968, Mulligan, 1974, Porsild and Cody 1980
RANGE: Circumboreal, south in w North America to n BC and AB
BC RANGE: Northern BC (Atlin, Summit Lake, Ghost Mtn., Gladys Lake, Mt. Edziza)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Rock outcrops, alpine tundra, lava talus
RARE STATUS: R3

**Draba lonchocarpa** Rydb. var. **thompsonii** (C.L. Hitchc.) Rollins
Lance-fruited Whitlow-grass
HERBARIA: GD, UBC, V
REFERENCE: Mulligan 1974
MAP: Mulligan 1974
RANGE: BC south to n WA
BC RANGE: Gladys Lake area (Ghost Mtn.) Cathedral Provincial Park, Rogers Pass, Garibaldi
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Scree, rocky slopes
RARE STATUS: R1

**Draba lonchocarpa** Rydb. var. **kamtschatica** (Ledeb.) Calder & Taylor = **D. lonchocarpa** Rydb. var. **vestita** O. Schulz in Engler

**Draba lonchocarpa** Rydb. var. **vestita** O. Schulz in Engler
Lance-fruited Whitlow-grass
HERBARIA: CAN, UBC
REFERENCE: Mulligan 1974
MAP: Mulligan 1974
RANGE: Coastal AK south to coastal BC
BC RANGE: Queen Charlotte Islands (Slatechuck Mtn., Cumshewa Inlet, Vancouver Island (Mt. Arrowsmith)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Rock crevices
RARE STATUS: R1

**Draba longipes** Raup
Long-stalked Whitlow-grass
HERBARIA: UBC, V
REFERENCE: Mulligan 1970
MAP: Hultén 1968, Mulligan 1970, Porsild and Cody 1980
RANGE: AK and YT south to n BC
BC RANGE: Cassiar, Stikine River (Spectrum Mtn.), Haines Road (Mile 68, Mile 75), Hazelton, Gladys Lake, Stuart-Watson Lake Road, Thornhill Mtn., Mt. Selwyn
BIOGEOCLIMATIC ZONE: AT, ES, SW
HABITAT: Grassy or rocky slopes, alpine seepage areas
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Draba macounii** O. Schulz in Engler
Macoun's Whitlow-grass
HERBARIA: CAN, UBC, V
REFERENCE: Pojar *et al.* 1976
MAP: Porsild and Cody 1980
RANGE: NT south to se BC
BC RANGE: Mt. Edziza, Quartz Ridge, Hart Hwy., Laird Plateau, Ghost Mtn.
BIOGEOCLIMATIC ZONE: AT
HABITAT: Volcanic scree, alpine tundra
RARE STATUS: R3

**Draba palanderianum** Kjellm.
HERBARIA: UBC
REFERENCE: Pojar *et al.* 1976
RANGE: AK and NT south to n-c BC
BC RANGE: Cassiar (Good Hope Lake)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Rocky tundra
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Draba porsildii** Mulligan
Porsild's Whitlow-grass
HERBARIA: V
REFERENCE: Mulligan 1974
MAP: Mulligan 1974, Porsild and Cody 1980
RANGE: Southern YT and sw NT south to sw AB and se BC
BC RANGE: Laird Plateau
BIOGEOCLIMATIC ZONE: BS
HABITAT: Limestone talus slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT, YT, AK

**Draba reptans** (Lam.) Fern.
Carolina Whitlow-grass
HERBARIA: UBC, V
RANGE: MA and s ON south to GA and TX, west to s BC and CA
BC RANGE: Interior Highlands (Oliver, Chilcotin (Moon Ranch Bluff), Fraser River at Sheep Creek)
BIOGEOCLIMATIC ZONE: PP, IF
HABITAT: Dry forest, xeric limestone outcrops
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in ON, IA, NJ, threatened in PA, OH, endangered in NC

**Draba ruaxes** Payson & St. John
Wind-river Whitlow-grass
HERBARIA: V
REFERENCE: Mulligan 1971b
MAP: Mulligan 1971b
RANGE: AK to nw WA
BC RANGE: Mt. Waddington, Mt. Chris Spencer, Trophy Mtn., Cronin Mtn., Level Mtn.
BIOGEOCLIMATIC ZONE: AT
HABITAT: Rock crevices, alpine fellfields
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, WA

**Draba stenopetala** Trautv.
HERBARIA: V
RANGE: Eastern Asia; AK, YT and n BC
BC RANGE: Mt. Edziza
BIOGEOCLIMATIC ZONE: AT
HABITAT: Rocky ridges
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT

**Draba ventosa** Gray
HERBARIA: DAO, V
REFERENCE: Mulligan 1971b
MAP: Mulligan 1971b
RANGE: AB and BC south to CO
BC RANGE: Quartz Ridge, Mt. Bowman
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine fellfields
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, AB, WA, CO

**Dryopteris arguta** (Kaulf.) Watt.
Coastal Shield Fern
HERBARIA: UBC, V
REFERENCE: Taylor 1971
MAP: Taylor 1971
RANGE: Southern BC south to CA and AZ
BC RANGE: Nanaimo Lowland (Denman Island, Hornby Island, Nanoose)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Mossy, rocky ledges and open woods
RARE STATUS: R1

**Dryopteris cristata** (L.) Gray
Crested Shield Fern
HERBARIA: SFUV, V
REFERENCE: Hamet-Ahti 1965, Taylor 1971
MAP: Taylor 1971
RANGE: Circumboreal south in w North America to n ID, MT, AR and NC
BC RANGE: Southeastern and central BC (Revelstoke, Kitchener, Wells Gray Park, Mabel Lake, Columbia River Valley)
BIOGEOCLIMATIC ZONE: IH
HABITAT: Bogs and swamps
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, WA, IA, IL, TN, threatened in NC, extirpated in TX

**Eburophyton austinae** (Gray) A.A. Heller = **Cephalanthera austinae** (Gray) A.A. Heller

**Echinocystis lobata** (Michx.) Torr. & Gray
Wild Cucumber
HERBARIA: DAO, UBC
RANGE: NB to FL, west to SK, MT, s ID, AZ and TX, NS to BC
BC RANGE: Shuswap Highland, Thompson Plateau, Fraser Lowland (Vernon, Armstrong, Cawstone, Cultus Lake, The "San" (Tranquille)
BIOGEOCLIMATIC ZONE: CH, IF, PP
HABITAT: Moist bottom lands, thickets
RARE STATUS: R2
NOTE: Possibly introduced

**Elatine triandra** Schkuhr
Three-flowered Waterwort
HERBARIA: V
RANGE: Southern BC, east to NB and south to CA, CO, SD and IL; Europe
BC RANGE: Vancouver Island (Alberni), Fraser Lowland (Pitt Lake)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Shallow water, mudflats, edges of ponds, ditches
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Eleocharis atropurpurea** (Retz.) C.B. Presl
Purple Spike-rush
HERBARIA: V
RANGE: Pantropical; in w North America, north to WA and BC
BC RANGE: Osoyoos Lake
BIOGEOCLIMATIC ZONE: PP
HABITAT: Inundated lake shore
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Eleocharis kamtschatica** (C.A. Meyer) Kom.
Kamchatka Spike-rush
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1983
MAP: Calder and Taylor 1968, Taylor 1983
RANGE: Eastern Asia; AK south to BC, n PQ and n NF
BC RANGE: Queen Charlotte Islands (Massett, Oeanda River), Vancouver Island (Sayward), Prince Rupert, Stewart
BIOGEOCLIMATIC ZONE: CH
HABITAT: Wet places
RARE STATUS: R2

**Eleocharis parvula** (Roem. & Schultes) Link ex Bluff & Fingerh.
Dwarf Spike-rush
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southwestern BC east to NF and south to n South America; w Europe; Mediterranean
BC RANGE: Vancouver Island (Little Qualicum River, Alberni), Port Coquitlam, Delta
BIOGEOCLIMATIC ZONE: CH
HABITAT: Wet saline or alkaline places
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK, PQ, AZ, CA, NH, IL, extirpated in MI

**Eleocharis quinqueflora** (Hartm.) Schw.
Few-flowered Spike-rush
HERBARIA: V
REFERENCE: Taylor 1983
MAP: Hultén 1968, Taylor 1983
RANGE: Circumboreal south in w North America to CA
BC RANGE: Yoho Park, Wells Gray Park, Liard Hot Springs, Muncho Lake
BIOGEOCLIMATIC ZONE: BS, IH
HABITAT: Wet soil, edges of lakes and ponds
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in NB, NH, NJ, OH, VT, endangered in IL, threatened in WI, IN

**Eleocharis rostellata** (Torr.) Torr.
Beaked Spike-rush
HERBARIA: CAN, V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southern BC east to NS and south to MX; Caribbean; South America
BC RANGE: Vancouver Island (Alberni), Ainsworth, Pitt Lake, East Kootenays
BIOGEOCLIMATIC ZONE: CA, CH, IF
HABITAT: Coastal salt marshes, fresh-water marshes, alkaline lakes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in ON, NS, PA, WA, CO, IL, OH, VA, ME, endangered in WI, threatened in NC, extirpated in FL

**Elmera racemosa** (S. Wats.) Rydb.
Elmera
HERBARIA: CAN
RANGE: Southwestern BC and WA
BC RANGE: Skagit Range (Cheam Peak)
BIOGEOCLIMATIC ZONE: MH
HABITAT: Rock crevices, mountain ridges
RARE STATUS: R1

**Elodea nuttallii** (Planch.) H. St. John
Nuttall's Waterweed
HERBARIA: V, UBC
RANGE: BC south to s CA; ON to NB; Atlantic States
BC RANGE: Southern BC (Crawford Bay, Moyie Lake, Langley Slough)
BIOGEOCLIMATIC ZONE: IF, CH
HABITAT: Submerged in lakes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in PQ, NB

**Elymus sibiricus** L.
Siberian Wild Rye Grass
HERBARIA: CAN, DAO, V
REFERENCE: Bowden 1964, Kershaw and Morton 1976
MAP: Hultén 1968
RANGE: Southern AK, sw Mackenzie; Asia: USSR, Kamchatka, Himalayas, China and Japan
BC RANGE: Fort Nelson Lowland (Fort Nelson, AK Highway — mile 297)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Roadsides, clearings, cultivated land, river-banks, sandbars
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Epilobium davuricum** Fisch. ex Hornem.
Swamp Willowherb
HERBARIA: DAO, UBC
MAP: Hultén 1968
RANGE: AK to the Cascades of c WA, south in the Rocky Mtns. to CO, east to the Atlantic coast; Eurasia
BC RANGE: Spatsizi Plateau (Upper Cullivan Creek), Selkirk Range
BIOGEOCLIMATIC ZONE: SW
HABITAT: Wet soil, bogs, wet meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, Continental NT, MB, PQ

**Epilobium glaberrimum** Barbey subsp. **fastigiatum** (Nutt.) Hoch & Raven
Smooth Willowherb
HERBARIA: CAN, DAO, F, NY, UBC, V
RANGE: Southern BC to CA, MT and UT
BC RANGE: Throughout s BC (Vancouver Island, Manning Park, Rossland, Monashee Pass)
BIOGEOCLIMATIC ZONE: CH, IF, IH
HABITAT: Moist places in mountains, streambanks
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Epilobium glandulosum** Lehm. var. **macounii** (Trealease) C.L. Hitchc. = **E. halleanum** Hausskn.

**Epilobium halleanum** Hausskn.
Glandular Willowherb
HERBARIA: UBC, V
REFERENCE: Carter and Newcombe 1921
RANGE: AK to OR and n CA, east to ID, MT and CO
BC RANGE: Scattered (Nanaimo, Mt. Douglas, Glacier, Tod Mtn., Nelson, Wells Gray area, Saanich, Kamloops)
BIOGEOCLIMATIC ZONE: ES, CF, PP, IF
HABITAT: Moist ground mostly in the mountains
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Epilobium hornemannii** Reichenb. subsp. **behringianum** (Hausskn.) Hoch & Raven
HERBARIA: UBC
REFERENCE: Hoch and Raven 1977
RANGE: Eastern Asia, coastal AK to coastal BC
BC RANGE: Queen Charlotte Islands (Mt. Stapelton, Masset, Queen Charlotte City)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Wet rocky cliffs, river banks
RARE STATUS: R2

**Epilobium leptophyllum** Raf.
Narrow-leaved Willowherb
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Kershaw and Morton 1976, Porsild and Crum 1961
MAP: Hultén 1968, Porsild 1966
RANGE: AK to Cascades of c WA, e to the Atlantic Coast, s in the Rockies to CO
BC RANGE: Throughout e and n BC (Windermere, Armstrong, Fort Nelson area, AK Hwy. Mile 285)
BIOGEOCLIMATIC ZONE: BS, IF
HABITAT: Wet soil, lowlands, bogs, marshes and wet meadows
RARE STATUS: R3

**Epilobium mirabile** Trelease
HERBARIA: V
RANGE: Western WA to sw BC
BC RANGE: Cascade mountains (Manning Park, Allison Pass)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Moist open areas in forest
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Epilobium oregonense** Hausskn.
Oregon Willowherb
HERBARIUM: V
RANGE: Southern BC to CA and ID
BC RANGE: Vancouver Island (Mt. Arrowsmith), Wells Gray Park (Hemp Creek Falls)
BIOGEOCLIMATIC ZONE: MH, ES
HABITAT: Seepage areas
RARE STATUS: R1

**Epipactis gigantea** Dougl. ex Hook.
Giant Helleborine
HERBARIA: CAN, UBC, V
REFERENCE: Brunton 1983c, Luer 1975, Szczawinski 1975a
MAP: Brunton 1983c, Luer 1975, Szczawinski 1975a
RANGE: BC south to SD, TX and MX
BC RANGE: Cultus Lake, Enderby, Boswell, Howser (extirpated), Celista, Fairmont Hot Springs, Naramata, Mara Lake, Osoyoos (extirpated), Ainsworth Hot Springs, Radium Hot Springs (extirpated), Lower Arrow Lake (extirpated).
BIOGEOCLIMATIC ZONE: IH, IF, CF, CH
HABITAT: Moist shady places along streams, marshes and swamps, hot springs
RARE STATUS: R1; designated as threatened by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) in 1984
STATUS OUTSIDE BC: Rare in CO, WA

**Erigeron caespitosus** Nutt.
Tufted Fleabane
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Cronquist 1947, Douglas 1984
MAP: Douglas 1984, Hultén 1968, Porsild and Cody 1980
RANGE: Ak and MN south to CO
BC RANGE: Alberta Plateau (Ft. St. John, Clayhurst Crossing)
BIOGEOCLIMATIC ZONE: BS, CA
HABITAT: Dry riverbanks, gravelly terraces
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in MB

**Erigeron compositus** Pursh var. **discoideus** Gray
Cut-leaved Fleabane
HERBARIA: CAN, DAO, V
REFERENCE: Cronquist 1947, Douglas 1984
MAP: Douglas 1984
RANGE: Greenland to AK and south to PQ and CA
BC RANGE: Vancouver Island (Forbidden Plateau, Paxton Mountain , Mt. Arrowsmith)
BIOGEOCLIMATIC ZONE: MH, CH
HABITAT: Alpine meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in PQ, WA

**Erigeron flagellaris** Gray
Trailing Fleabane
HERBARIA: CAN, DAO, GD, UBC, V
REFERENCE: Cronquist 1947, Douglas 1984
MAP: Douglas 1984
RANGE: Western WY to SD, south to TX and s NV; disjunct in s BC
BC RANGE: Interior Plateau (Riske Creek, Alkali Lake, Hanceville, Clinton, Williams Lake, Ashcroft, Upper Hat Creek, Pavilion, Lac la Hache, Cache Creek, Tranquille)
BIOGEOCLIMATIC ZONE: CA, IF, PP
HABITAT: Sagebrush meadows, grasslands, disturbed grasslands
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Erigeron grandiflorus** Hook.
Large-flowered Fleabane
HERBARIA: DAO, GD, UBC, V
REFERENCE: Cronquist 1947, Douglas 1984
MAP: Douglas 1984
RANGE: AK east to w NT and south to BC
BC RANGE: Northern and e BC (Nevis Creek, Gladys Lake, North Kootenay Pass)
BIOGEOCLIMATIC ZONE: ES, BS
HABITAT: Dry tundra, alpine meadows
RARE STATUS: R3

**Erigeron lanatus** Hook.
Wooly Fleabane
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Cronquist 1947
RANGE: Southwestern AB and se BC to nw MT; CO
BC RANGE: Kootenay National Park (Assiniboine)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Alpine scree slopes, talus
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, CO

**Erigeron leibergii** Piper
Leiberg's Daisy
HERBARIA: GD, V
REFERENCE: Cronquist 1947, Douglas 1984
MAP: Douglas 1984
RANGE: Southcentral BC to c WA
BC RANGE: Cathedral Park
BIOGEOCLIMATIC ZONE: IF
HABITAT: Dry, open montane slopes
RARE STATUS: R1

**Erigeron poliospermus** Gray
Cushion Fleabane
HERBARIA: CAN, DAO, GD, NY, V
REFERENCE: Cronquist 1947, Douglas 1984
MAP: Douglas 1984
RANGE: South-central BC to c OR and w ID
BC RANGE: Okanagan Highland (Osoyoos)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Sagebrush hillsides
RARE STATUS: R1

**Erigeron trifidus** Hook.
Three-leaved Daisy
HERBARIA: CAN, GD, V
REFERENCE: Cronquist 1947, Douglas 1984
MAP: Douglas 1984
RANGE: Eastern BC and adjacent AB
BC RANGE: Rocky Mountains
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine scree
RARE STATUS: R1

**Eriogonum ovalifolium** Nutt. var. **nivăle** (Canby) M.E. Jones
Oval-leaved Umbrella-plant
HERBARIA: UBC, V

RANGE: BC, east to AB, south through w OR to CA and NM
BC RANGE: Southern BC (Manning Park, Okanagan, Columbia River Valley)
BIOGEOCLIMATIC ZONE: ES, PP
HABITAT: Sagebrush desert, **Juniperus** or **Pinus ponderosa** woods, alpine ridges
RARE STATUS: R3

**Eriogonum pauciflorum** Pursh var. **pauciflorum**
Few-flowered Umbrella-plant
HERBARIA: CAN, UBC
RANGE: Southeastern BC, sw AB, SK, south to MT, WY, ND, SD, NE and n I
BC RANGE: Border Ranges — Clark Range (South Kootenay Pass)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Rocky ridges, prairies, foothills
RARE STATUS: R1

**Eriogonum pyrolifolium** Hook. var. **coryphaeum** Torr. & Gray
Alpine Umbrella-plant
HERBARIA: GD, V
REFERENCE: Douglas and Ratcliffe 1981
RANGE: Southcentral BC to ID, MT and CA
BC RANGE: Cathedral Park
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine scree
RARE STATUS: R1

**Eriogonum strictum** Benth.
HERBARIA: UBC, V
RANGE: East of the Cascades from WA to n CA, east to ID, MT and NV
BC RANGE: Thompson Plateau (Keremeos Columns)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Sagebrush desert to **Pinus ponderosa** forest
RARE STATUS: R1

**Eriophorum callitrix** Cham. ex C.A. Meyer
Arctic Cotton-grass
HERBARIA: V
REFERENCE: Taylor 1983
MAP: Hultén 1968, Porsild and Cody 1980, Taylor 1983
RANGE: Northeastern Europe and n Asia across North America to NF, south to CO; e Greenland
BC RANGE: Northern BC (Haines Triangle, Liard Plateau, Spatsizi Plateau)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Wet alpine tundra
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, MB

**Erysimum arenicola** S. Wats.
Sand-dwelling Wallflower
HERBARIA: UBC
RANGE: Southwestern BC south to OR
BC RANGE: Vancouver Island (Mt. Arrowsmith, Kennedy River, Cameron Lake, Forbidden Plateau)
BIOGEOCLIMATIC ZONE: MH, CH
HABITAT: Talus, moist rocky slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Erysimum pallasii** (Pursh) Fern.
Pallas Wallflower
HERBARIA: UBC
REFERENCE: Pojar *et al.* 1976
RANGE: Circumpolar, south in w North America to nw BC
BC RANGE: Mt. Edziza
BIOGEOCLIMATIC ZONE: SW
HABITAT: Volcanic scree
RARE STATUS: R1

**Erythronium montanum** S. Wats.
White Glacier Lily
HERBARIA: UBC, V
REFERENCE: Applegate 1935, Kershaw and Morton 1976, Taylor 1974b
MAP: Taylor 1974b
RANGE: Southern BC to n OR, west of the Coast Mtns.
BC RANGE: Vancouver Island Mtns. — Vancouver Island Ranges; Pacific Ranges (Port Renfrew, San Juan Ridge, Tahsis Inlet, Mt. Waddington)
BIOGEOCLIMATIC ZONE: AT, CH
HABITAT: Subalpine to alpine forests and meadows
RARE STATUS: R2

**Erythronium oregonum** Appleg.
White Fawn Lily
HERBARIA: CAN, DAO, UBC, UVIC, V
REFERENCE: Applegate 1935, Taylor 1974b
MAP: Taylor 1947b
RANGE: Southern BC, through the Willamette Valley to s OR
BC RANGE: Southeastern Vancouver Island, the Gulf Islands and adjacent mainland, Lower Fraser Valley
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Moist woods to open gravelly prairies
RARE STATUS: R4

**Erythronium revolutum** J.E. Smith in Rees
Pink Fawn Lily
HERBARIA: CAN, DAO, UBC, UVIC, V
REFERENCE: Applegate 1935, Taylor 1974b
MAP: Taylor 1974b
RANGE: Southwestern BC to nw CA, scattered in WA and OR
BC RANGE: Southwestern BC (Vancouver Island from Victoria to Campbell River and Fort Rupert, Kingcome Inlet)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Riverbanks and light to fairly thick woods
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in WA

**Euonymus occidentalis** Nutt. ex Torr.
Western Wahoo
HERBARIA: UBC, V
RANGE: West of the Cascades from BC and WA to c CA
BC RANGE: Nanaimo Lowland (Courtenay)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Woods and thickets
RARE STATUS: R1

**Eupatorium maculatum** L. var. **bruneri** (Gray) Breitung
Joe-pye-weed
HERBARIA: CAN, DAO, GD, UBC, V
REFERENCE: Douglas 1984

MAP: Douglas 1984
RANGE: Southern BC east to NF and south to NM, IL and MI
BC RANGE: Fraser Lowland (Huntingdon, Sea Island, Delta, Point Grey)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Wet ground, riverbanks
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, KS, endangered in CO

**Euphrasia arctica** Lange ex Rostrup
Arctic Eyebright
HERBARIA: DAO, GD, UBC, V
REFERENCE: Taylor 1974a
MAP: Porsild 1964, Taylor 1974a
RANGE: Circumpolar, south in the US to ME, MI, MN and MT
BC RANGE: Northeastern BC (Azouzetta Lake)
BIOGEOCLIMATIC ZONE: BS, SS
HABITAT: Wet places, streambanks, bogs
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK, Continental NT, threatened in MI

**Euthamia graminifolia** (L.) Nutt. ex Cassini
Grass-leaved Goldenrod
HERBARIA: UBC, V
RANGE: NF west to BC and south to VA and NM
BC RANGE: Southern BC (Agassiz, Hollyburn Mtn., Ft. Steele, Kinbasket Lake)
BIOGEOCLIMATIC ZONE: CH, CF, IF
HABITAT: Swampy ground
RARE STATUS: R3

**Eutrema edwardsii** R. Br. in Parry
Edwards' Wallflower
HERBARIA: V
RANGE: Circumboreal, south in w North America to n BC
BC RANGE: AK Hwy. (Mile 428, Summit Pass), Mt. Edziza, Gladys Lake, Liard Plateau
BIOGEOCLIMATIC ZONE: SW, AT
HABITAT: Lava talus
RARE STATUS: R3

**Festuca microstachys** Nutt. = **Vulpia microstachys** (Nutt.) Munroe ex Benth.

**Festuca subuliflora** Scribn. in J. Macoun
Crinkle-awned Fescue
HERBARIA: UBC, V, WS
REFERENCE: Hubbard 1955
MAP: Hultén 1968
RANGE: BC to nw CA
BC RANGE: Southwestern BC (Cameron Lake, Shawnigan, Union Bay, Spanish Banks)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Light to heavy woods, moist slopes, meadows
RARE STATUS: R4

**Fraxinus latifolia** Benth.
Oregon Ash
HERBARIA: UBC
REFERENCE: Ceska *et al.* 1984
RANGE: Southwestern BC south to CA
BC RANGE: Vancouver Island (Long Beach, Port Alberni)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Coastal swamps, stream estuaries
RARE STATUS: R1

**Galium bifolium** S. Wats.
Thin-leaved Bedstraw
HERBARIA: UBC, V
RANGE: Southern BC and MT to s CA and CO
BC RANGE: Hecate Lowland, Bulkley Ranges, Selkirk Mountains, Nanaimo Lowland (Prince Rupert, Smithers, Nelson, Mauis Lake, Manning Park, Flathead)
BIOGEOCLIMATIC ZONE: ES, CH
HABITAT: Moist or rather dry places
RARE STATUS: R3

**Galium cymosum** Wiegand
Pacific Bedstraw
HERBARIA: UBC, V
RANGE: Southern BC to OR, extending inland to the west slope of the Cascades
BC RANGE: Southwestern and c BC (Nanaimo, Vancouver area, Kitimat)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Moist places along the coast, sphagnum bogs
RARE STATUS: R3

**Galium labradoricum** (Wiegand) Wiegand
Northern Bog Bedstraw
HERBARIA: CAN, DAO, UBC, V
RANGE: Northeastern BC and c AB east to NF and south to NJ, OH and MN
BC RANGE: Fort Nelson Lowland
BIOGEOCLIMATIC ZONE: BS
HABITAT: Bogs and swamps, wet meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in NS, Continental NT, CT, IL, endangered in NJ, threatened in PA

**Gaultheria humifusa** (R. Grah.) Rydb.
Alpine-wintergreen
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Argus and White 1978, Hamet-Ahti 1965, Szczawinski 1975b
MAP: Szczawinski 1975b
RANGE: Southern BC and AB, south to CO and n CA
BC RANGE: Scattered throughout s BC, north to 52°N latitude (Wells Gray Park, Flathead area, Okanagan, Rogers Pass)
BIOGEOCLIMATIC ZONE: MH, ES, IH
HABITAT: Moist banks and meadows, in mountains
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Gaura coccinea** Pursh
Scarlet Gaura
HERBARIA: UBC, V
REFERENCE: Raven and Gregory 1972
MAP: Raven and Gregory 1972
RANGE: Southern BC to s MB, south to s MX
BC RANGE: Columbia River Valley (Windermere), Okanagan Highland (Osoyoos) Thompson Plateau (Kamloops)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry, sandy sagebrush slopes
RARE STATUS: R1

**Gayophytum humile** Adr. Juss.
Dwarf Groundsmoke
HERBARIA: ALTA, DAO, UBC, V
MAP: Lewis and Szweykowski 1964
RANGE: East of the Cascades in WA to s CA, east to sw AB, ID, MT and CO; Chile
BC RANGE: Hozameen Range (Manning Park)
BIOGEOCLIMATIC ZONE: ES
HABITAT: In mountains, dry places, sandy soil
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, WY

**Gayophytum ramosissimum** Nutt. ex Torr. & Gray
Hairstem Groundsmoke
HERBARIA: CAN, DAO, UBC, V, WS
MAP: Lewis and Szweykowski 1964
RANGE: Southern BC and e WA to CA, east to MT, CO, WY, UT and n AZ
BC RANGE: Southern BC (Penticton, 15 miles east of Osoyoos, Coldstream, Lake Creek, Marysville)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry foothills and valleys to lower mountains
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Gentiana affinis** Griseb. in Hook.
Prairie Gentian
HERBARIA: UBC, UVIC, V, WS
REFERENCE: Gillett 1963
MAP: Gillett 1963
RANGE: BC, south on the east side of the Cascades through WA to s-c and sw OR and CA and AZ, east to AB and MB; Rocky Mountain states to MX
BC RANGE: Southeastern BC (Marysville, Rock Creek, Cranbrook, South Kootenay Pass, Crowsnest Pass) Vancouver Island (Spectacle Lake — introduced)
BIOGEOCLIMATIC ZONE: ES, IF, CH
HABITAT: Meadowland, damp soil, valleys and foothills to mountains
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT

**Gentiana calycosa** Griseb. in Hook.
Mountain Bog Gentian
HERBARIA: DAO, UBC, V
REFERENCE: Gillett 1963
MAP: Gillett 1963
RANGE: BC south to CA and east to AB and MT
BC RANGE: Southeastern BC (Wall Lake, King Edward Peak)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Mountain meadows, swamps, streambanks
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Gentiana platypetala** Griseb. in Hook.
Broad-petalled Gentian
HERBARIA: DAO, UBC, V
REFERENCE: Gillett 1963
MAP: Calder and Taylor 1968, Gillett 1963, Hultén 1968
RANGE: Kodiak Island to se AK and adjacent BC
BC RANGE: Queen Charlotte Islands, Vancouver Island (Brooks Peninsula, Zeballos Peak), coastal mainland (Alice Arm, Bella Coola area)
BIOGEOCLIMATIC ZONE: CH, MH, AT
HABITAT: Grassy mountain slopes
RARE STATUS: R4

**Gentiana prostrata** Haenke in Jacq.
Moss Gentian
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Gillett 1963, Raup 1934
MAP: Gillett 1963, Hultén 1968
RANGE: AK south to n CA and east to c ID, UT and NV; Eurasia; South America
BC RANGE: Eastern, c and n BC (Gladys Lake, Nevis Creek, Summit Pass, Haines Road, Smithers, east Chilcotin area, Mt. Selwyn, Halfway River, Robb Lake)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Alpine bogs and meadows of high mountains
RARE STATUS: R3

**Gentiana tenella** Rottb. = **Gentianella tenella** (Rottb.) Borner

**Gentianella crinita** (Froel.) G. Don
Macoun's Fringed Gentian
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Gillett 1957, 1963
MAP: Gillett 1957, 1963
RANGE: YT east to PQ and south to BC, n IA and GA
BC RANGE: Continental Ranges, Rocky Mtn. Trench, (Field, Wapta Falls)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Wet meadows, shores, calcareous bogs
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in PQ, ME, MD, MA, NH, RI, VT

**Gentianella tenella** (Rottb.) Borner
Slender Gentian
HERBARIA: DAO, UBC, V
REFERENCE: Gillett 1963
MAP: Gillett 1963, 1957, Hultén 1968, 1958, Porsild 1966
RANGE: Rocky Mountains from WY to NM and AZ, Sierra Nevada and White Mountains of CA and NV, Yellowstone National Park, ID, MT; Mountain ranges of Eurasia, Greenland, AK and Canada; PQ to BC
BC RANGE: Northern and c BC (Tagish Lake, Lillooet district, Tenquille Lake)
BIOGEOCLIMATIC ZONE: IF, PP, CH
HABITAT: Mountains, meadows in tundra, sea beaches, rocky places
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT, YT, PQ

**Geum calthifolium** Menzies ex J.E. Smith in Rees
Caltha-leaved Avens
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1973
MAP: Calder and Taylor 1968, Hultén 1968, Taylor 1973
RANGE: AK to BC; e Asia
BC RANGE: Queen Charlotte Islands, Vancouver Island and coastal mainland (White Pass, Masset Inlet, Kootenay Inlet, Prince Rupert, Kitimat, Ocean Falls, Bella Coola, Brooks Peninsula, Tsitika Mtn., The Lions)
BIOGEOCLIMATIC ZONE: AT, MH, CH
HABITAT: Coastal bogs, alpine slopes, meadows
RARE STATUS: R4

**Geum rossii** (R. Br.) Seringe in DC.
Ross' Avens
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1973
MAP: Hultén 1968, Porsild 1964, Taylor 1973
RANGE: AK to YT, south to ne WA, OR, NV, AZ and NM; east Asia
BC RANGE: Tahltan Highland (Yehiniko Lake)
BIOGEOCLIMATIC ZONE: SW
HABITAT: Calcareous soil, alplands, arctic tundra
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT

**Geum schofieldii** Calder & Taylor
Queen Charlotte Avens
HERBARIA: DAO, UBC, V
REFERENCE: Kershaw and Morton 1976, Taylor 1973
MAP: Calder and Taylor 1968, Taylor 1973
RANGE: Western BC
BC RANGE: Queen Charlotte Mtns. — Queen Charlotte Ranges, Skidegate Plateau; Vancouver Island Mtns. — Vancouver Island Ranges (Kootenay Inlet, Tasu Mtn., Mt. de la Touche, Dawson Inlet, Brooks Peninsula)
BIOGEOCLIMATIC ZONE: MH
HABITAT: Wet rock crevices
RARE STATUS: R1
NOTE: Endemic to BC

**Gilia aggregata** (Pursh) Sprengel = **Ipomopsis aggregata** (Pursh) V. Grant

**Gilia capitata** Sims
Globe Gilia
HERBARIA: CAN, DAO, UBC, V
MAP: Hultén 1968
RANGE: Southern Vancouver Island, WA and n ID, south to OR and CA; AK and YT (escapes from cultivation)
BC RANGE: Southern and ne BC (Vancouver Island, Lower Fraser Valley, Peace River area, Sicamous, Nelson, Sikanni River)
BIOGEOCLIMATIC ZONE: IH, CF, IF, CA
HABITAT: Dry slopes, open places at lower elevations
RARE STATUS: R3

**Gilia minutiflora** Benth. = **Ipomopsis minutiflora** (Benth.) V. Grant

**Gilia sinuata** Dougl. ex Benth.
Rosy Gilia
HERBARIA: UBC, V
RANGE: Eastern WA to se CA, east through the Snake River plains to WY and NM, BC
BC RANGE: Okanagan Highland (Osoyoos)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry, open, sandy places in plains and foothills
RARE STATUS: R1

**Githopsis specularioides** Nutt.
Common Bluecup
HERBARIA: UBC, V
REFERENCE: Morin 1983
MAP: Morin 1983
RANGE: Southern WA to s CA; sw BC
BC RANGE: Vancouver Island, Nanaimo Lowland (Sooke, Victoria, Horn Lake, Port Alberni)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open seepage areas in foothills
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Glehnia leiocarpa** Mathias = **G. littoralis** Schmidt. subsp. **leiocarpa** (Mathias) Hultén

**Glehnia littoralis** Schmidt subsp. **leiocarpa** (Mathias) Hultén
American Glehnia
HERBARIA: DAO, UBC, V
REFERENCE: Kershaw and Morton 1976
MAP: Calder and Taylor 1968, Hultén 1968
RANGE: Kodiak Island AK to nw CA; e Asia
BC RANGE: Queen Charlotte Islands (Sandspit, Tlell), Vancouver Island (Brooks, Peninsula, Ucluelet, Long Beach, Sidney Spit, Sooke, Saanichton)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Coastal dunes and sandy beaches
RARE STATUS: R4

**Glyceria leptostachya** Buckley
Slender-spiked Manna Grass
HERBARIA: UBC
REFERENCE: Hubbard 1955
MAP: Hultén 1968
RANGE: Southern AK south to c CA
BC RANGE: Southwestern BC (Alberni)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Salt marsh
RARE STATUS: R1

**Glycyrrhiza lepidota** Pursh
Wild Licorice
HERBARIA: UBC, V
REFERENCE: Taylor 1974c
MAP: Taylor 1974c
RANGE: Southern BC to ON and south to CA and TX
BC RANGE: Southeastern BC (Wardner, Kootenay Lake, Wasa, Jaffray, Kaslo, Cranbrook) Fraser Highland (Turquoise Lake)
BIOGEOCLIMATIC ZONE: IH, IF, PP
HABITAT: Lake shores and grassy fields
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in ON, threatened in WI

**Grammica pentagona** (Engelm.) W.A. Weber
Five-angled Dodder
HERBARIA: CAN, DAO, UBC, V
RANGE: Over most of the US and in many other parts of the world, e OR to s CA, TX, FL and east, sw BC to SK, MB, ON, PQ, NF, PE and NS; MX
BC RANGE: Vancouver Island Mountains; Alberni Basin; Fraser Lowland (Port Alberni, Elgin)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Parasitic on legumes in fields or low ground
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in NB, PA, threatened in MI, OH

**Grammica salina** (Engelm.) Taylor & MacBryde
Saltmarsh Dodder
HERBARIA: CAN, UBC, UVIC, V
RANGE: Along the coast from BC to MX, inland to UT and AZ

BC Range: Southwestern BC (Boundary Bay, Victoria, Saltspring Island, South Pender Island, Sooke, Parksville, Gabriola Island)
Biogeoclimatic Zone: CF, CH
Habitat: Parasitic on chenopodiaceous and asteraceous plants of saline soils
Rare Status: R4

**Gratiola ebracteata** Benth. in DC.
Bractless Hedge-hyssop
Herbaria: DAO, UBC, V
Reference: Taylor 1974a
Map: Taylor 1974a
Range: Southern BC to CA, east to w MT
BC Range: Southern BC (Southern Vancouver Island, and some Gulf Islands, Sicamous)
Biogeoclimatic Zone: CF, IF
Habitat: Muddy and wet places
Rare Status: R4

**Gratiola neglecta** Torr.
Common American Hedge-hyssop
Herbaria: ALTA, UBC, V
Reference: Taylor 1974a
Map: Taylor 1974a
Range: Southern BC to PQ, NS south to CA, AZ, TX and GA
BC Range: Fraser Lowland, Thompson Plateau, Shuswap Highland, Nanaimo Lowland, Vancouver Island Mountains (Alberni Basin)
Biogeoclimatic Zone: PP, CH
Habitat: Shallow water, muddy places
Rare Status: R2
Status Outside BC: Rare in NS, NB

**Gymnocarpium jessoense** (Koidz.) Koidz. subsp. **parvulum**
Sarvela
Nahanni Oak Fern
Herbaria: CAN, DAO, UBC, V
Reference: Sarvela *et al.* 1981, Taylor 1971
Map: Sarvela *et al.* 1981, Taylor 1971
Range: Circumpolar; in North America, AK to NB, south to ID, IA and PA
BC Range: Northern and e BC (AK Hwy. mile 520, Liard River, Wheaton Creek, Steamboat Mtn., Big Bend Hwy.)
Biogeoclimatic Zone: BS, IF
Habitat: Rock outcrops, talus
Rare Status: R1
Status Outside BC: Rare in PQ, NB

**Habenaria chorisiana** Cham. = **Platanthera chorisiana** (Cham.) Reichenb. f.

**Habenaria greenei** Jeps. = **Plantanthera unalascensis** (Spreng.) F. Kurtz subsp. **maritima** (Rydb.) DeFilipps

**Habenaria unalascensis** (Spreng.) S. Wats. subsp. **maritima** (Greene) Calder & Taylor = **Plantanthera unalascensis** (Spreng.) F. Kurtz subsp. **maritima** (Rydb.) DeFilipps

**Hackelia deflexa** (Wahl.) Opiz in Bercht.
Nodding Hackelia
Herbaria: CAN, UBC, V
Map: Hultén 1968, 1971
Range: Circumboreal; in North America from BC to n AB, to PQ, south to WA, ID, CO, IA and VT
BC Range: South-central and nw BC, (Mt. Chipuin, Summerland, Gladys Lake area, Kamloops, Keremeos)
Biogeoclimatic Zone: BS, PP, IF
Habitat: Thickets and open woods
Rare Status: R3

**Hackelia diffusa** (Dougl. ex Lehm.) I. Johnst.
Spreading Hackelia
Herbaria: UBC, V
Reference: Ulke 1934
Range: Along and near the Columbia River in WA and OR, north to Thompson and Fraser rivers in s BC
BC Range: Rocky Mountains, Coast Mountains; (Summit Lake, Lytton, Botanie Valley, Manning Park, Cranbrook, Yoho National Park, Wapta Lake)
Biogeoclimatic Zone: ES, SS, IF, CF
Habitat: Cliffs and talus slopes
Rare Status: R3
Status Outside BC: Rare in WA

**Hackelia floribunda** (Lehm.) I. Johnst.
Many-flowered Hackelia
Herbaria: DAO, UBC, V
Range: Southern BC to SK, w ON and MN,, s to CA, s NV, n NM, chiefly in the Rocky Mountain region
BC Range: Southern and se BC (Spences Bridge, Merritt, Kimberley, Botanie Valley, Michel, Fernie, Osoyoos, Kamloops, Penticton, Yoho National Park, Azouzetta Lake, Invermere)
Biogeoclimatic Zone: ES, IH, IF, PP
Habitat: Thickets, meadows, streambanks, moist places
Rare Status: R3

**Hackelia micrantha** (Eastw.) Gentry
Blue Hackelia
Herbaria: UBC, V
Reference: Welsh and Rigby 1971
Range: Cascade-Sierran region, east to the Rocky Mountains, BC, WA, ID south to the North Coast Ranges, Sierra Nevada CA and w NV, east to AB, MT, w WY and UT
BC Range: Southern and e-c BC; (Mt. Kobau, Flathead, Taseko Lake, Thutade Lake, Manning Park, Botanie Valley, Mt. Robson Park, Azouzetta Lake)
Biogeoclimatic Zone: ES, IF, IH
Habitat: Moist banks or slopes, thickets, meadows
Rare Status: R3

**Halimolobos whitedii** (Piper) Rollins
Whited's Halimolobos
Herbaria: UBC
Range: South-central BC to c WA
BC Range: Okanagan Highland (Osoyoos, Anarchist Mtn.)
Biogeoclimatic Zone: IF, PP
Habitat: Dry sagebrush slopes
Rare Status: R1

**Hammarbya paludosa** (L.) O. Kuntze
Bog Adder's-mouth Orchid
Herbaria: ALTA, CAN, DAO, UBC, V
Reference: Kershaw and Morton 1976, Luer 1975, Szczawinski 1975a
Map: Calder and Taylor 1968, Hultén 1958, 1968; Luer 1975, Szczawinski 1975a

RANGE: Southern AK, NT and BC, east to c AB, c SK, MB, ON and MN; Eurasia
BC RANGE: Queen Charlotte Mtns. — Skidegate Plateau, Queen Charlotte Ranges; Queen Charlotte Lowland — Argonaut Plain; Liard Plateau; Kitimat Ranges; Nechako Plateau — McGregor Plateau; Hecate Lowland (Sandspit, Tlell, near Masset, Aleza Lake, Kitimat, Liard Hot Springs, Prince Rupert)
BIOGEOCLIMATIC ZONE: SS, CH
HABITAT: Wet sphagnum, turfy bogs and muskegs
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in Canada, endangered in MN

**Haplopappus bloomeri** Gray
Rabbitbush
HERBARIA: V
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: Southern BC south to CA
BC RANGE: Kettle River Valley (Westbridge), Okanagan Highland (Keremeos)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry sagebrush hillsides
RARE STATUS: R1

**Haplopappus carthamoides** (Hook.) Gray subsp. **carthamoides**
Columbia Goldenweed
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: Southern BC and nw MT south to n CA and nw WY
BC RANGE: Okanagan Highland (Summerland, Keremeos, Twin Lakes)
BIOGEOCLIMATIC ZONE: PP, IF
HABITAT: Dry sagebrush hillsides, grasslands
RARE STATUS: R1

**Hedysarum hedysaroides** (L.) Schinz & Thell.
Alpine Hedysarum
HERBARIA: V
REFERENCE: Welsh 1974c
MAP: Hultén 1968
RANGE: Eurasia; AK east to NF and south to BC, WY, SD
BC RANGE: Northern BC (Atlin, Tagish highland, AK Hwy. Mile 428)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine tundra and heaths
RARE STATUS: R1

**Hedysarum occidentale** Greene
Western Hedysarum
HERBARIA: DAO, UBC, V
RANGE: BC to WA and CO
BC RANGE: Vancouver Island (Golden Hinde, Mt. Cain, Zabellos, Victoria Lake, Nimkish Lake)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Dry scree slopes
RARE STATUS: R1

**Helenium autumnale** L.
Mountain Sneezeweed
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern BC to OR
BC RANGE: Fraser Lowland (Langley, Pitt River, Sumas, Alouette River), Vancouver Island (Victoria), Thompson Plateau (Kamloops Lake)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Marshy lakeshores and river banks, sloughs, damp ground
RARE STATUS: R2

**Helianthella uniflora** (Nutt.) Torr. & Gray
One-flowered Little Sunflower
HERBARIA: CAN, UBC, V
RANGE: Southwestern BC and MT south to OR and MN
BC RANGE: Thompson Plateau and Okanagan Highland (Merrit, Spences Bridge, Kelowna, Kamloops, Princeton)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Sagebrush hillsides, rockslides
RARE STATUS: R4

**Helianthus nuttallii** Torr. & Gray
Nuttall's Sunflower
HERBARIA: V
REFERENCE: Long 1966
MAP: Long 1966
RANGE: Eastern BC to SK and south to MN and GA
BC RANGE: Alberta Plateau (Dawson Creek, Hudson's Hope), Columbia River Valley (Fairmont Hot Springs, Windermere), Cranbrook, s Vancouver Island
BIOGEOCLIMATIC ZONE: IF, CA, CF
HABITAT: Wet meadows
RARE STATUS: R3

**Heliopsis helianthoides** (L.) Sweet
Sunflower Heliopsis
HERBARIA: CAN
RANGE: Eastern BC east to PQ and south to MN and GA
BC RANGE: Revelstoke, Yoho Park (Field, Kicking Horse River)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Waste places
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK, NB

**Hemicarpha micrantha** (Vahl) Pax
Small-flowered Hemicarpa
HERBARIA: V
REFERENCE: Ceska and Ceska 1980
RANGE: Tropical and temperate America, north to WA, BC, ON and PQ
BC RANGE: Osoyoos Lake
BIOGEOCLIMATIC ZONE: PP
HABITAT: Inundated lake shore
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada, CT, ME, NH, PA, VA, WV, endangered in NJ, NC, OH, threatened in MI, SC

**Hemitomes congestum** Gray
Gnome-plant
HERBARIA: UBC, V
REFERENCE: Szczawinski 1975b
MAP: Szczawinski 1975b
RANGE: West side of the Cascades in BC and the Olympic Peninsula in WA, south to CA
BC RANGE: Western and s BC (Kitimat, Vancouver Island from Port Hardy to Cameron Lake, Powell River, Grouse Mtn., Haney, Garibaldi, New Denver, Procter)

Biogeoclimatic Zone: ES, IH, CF, CH
Habitat: Deep humus in coniferous forest
Rare Status: R4
Status Outside BC: Rare in WA

**Heteranthera dubia** (N.J. Jacq.) MacMill.
Water Starweed
Herbaria: UBC, V
Range: Southern BC east to PQ and south to AR, NM and NC
BC Range: Southern BC (Kawkawa Creek near Hope, Kalamalka Lake, Osoyoos Lake, Christina Lake, Kootenay Lake, East Kootenays, Golden)
Biogeoclimatic Zone: CH, IF, PP
Habitat: Quiet water
Rare Status: R3
Status Outside BC: Rare in MB, NB, ME, NH, endangered in NC

**Heterocodon rariflorum** Nutt.
Heterocodon
Herbaria: CAN, DAO, UBC, V
Range: Southern BC and ID to CA, NV and WY
BC Range: Selkirk Mountains, Rocky Mountain Trench, Vancouver Island Mountains (Revelstoke, Nelson, Newgate, Kinnaird, Cedar Hill, Prospect Lake)
Biogeoclimatic Zone: IH, CF
Habitat: Moist open places in foothills and valleys
Rare Status: R2

**Heuchera richardsonii** R. Br. in Franklin
Richardson's Alumroot
Herbaria: ALTA, DAO, UBC, V
Range: Eastern BC to CO, east to MB and IN
BC Range: Northeastern BC (Peace River, McBride)
Biogeoclimatic Zone: BS, IH
Habitat: Moist banks, rock crevices
Rare Status: R4
Status Outside BC: Rare in Continental NT

**Hippuris tetraphylla** L. f.
Four-leaved Mare's-tail
Herbaria: CAN, DAO, UBC, V
Map: Hultén 1968, 1971
Range: Northern YT, coastal AK to BC, disjunctly east to the Atlantic Ocean; Eurasia
BC Range: Western BC (Victoria, Bella Coola)
Biogeoclimatic Zone: CF, CH
Habitat: Brackish water, shallow ponds, mud flats
Rare Status: R3
Status Outside BC: Rare in Continental NT, YT, MB

**Hordeum depressum** (Scribn. & Smith) Rydb.
Dwarf Barley
Herbaria: CAN, UBC
Reference: Bowden 1962
Range: BC south to s CA, east to w ID
BC Range: Nanaimo Lowland (Oak Bay, Cadboro Bay)
Biogeoclimatic Zone: CF
Habitat: Waste areas, moist saline soil
Rare Status: R3

**Huperzia selago** L. var. **miyoshianum** (Mak.) Taylor & MacBryde
Fir Club-moss
Herbaria: CAN, DAO, UBC, V
Map: Calder and Taylor 1968
Range: Japan, Korea, China to AK and BC
BC Range: Queen Charlotte Islands (generally distributed)
Biogeoclimatic Zone: CH
Habitat: Rocky slopes, coniferous forests
Rare Status: R4

**Hutchinsia procumbens** (L.) Desv. = **Hymenolobus procumbens** (L.) Nutt. ex Torr. & Gray

**Hydrocotyle ranunculoides** L. f.
Floating Water Pennywort
Herbaria: CAN, DAO, UBC, V
Range: Puget Sound WA to DE, AR and CA, south to tropical America
BC Range: Nanaimo Lowland (Nanaimo, Departure Bay)
Biogeoclimatic Zone: CF
Habitat: Marshes, ponds and wet ground
Rare Status: R1

**Hydrocotyle verticillata** Thunb.
Whorled Water Pennywort
Herbaria: UBC
Range: Southwestern BC to s CA, east to UT, OK, MO and the Atlantic States; MX, Bermuda, Jamaica, West Indies
BC Range: Fraser Lowland (Coquitlam)
Biogeoclimatic Zone: CF
Habitat: Streams and low ground
Rare Status: R1

**Hydrophyllum fendleri** (Gray) A.A. Heller
Fendler's Waterleaf
Herbaria: UBC, V
Range: Coastal mountains of s BC, WA, OR to n CA; se WA, ne OR to e ID; s WY to NM and se UT
BC Range: South-central BC (Manning Park, Gibson Pass, Spences Bridge, Botanie Creek)
Biogeoclimatic Zone: MH, ES, IH
Habitat: Thickets, moist open places
Rare Status: R4

**Hydrophyllum tenuipes** A.A. Heller
Pacific Waterleaf
Herbaria: DAO, UBC, UVIC, V
Range: West flank of the Cascades to the coast, from WA and s BC to n CA
BC Range: Nanaimo Lowland (Mt. Finlayson, Victoria, Sooke, Goldstream Park, Milnes Landing); Fraser Lowland (Clayburn)
Biogeoclimatic Zone: CF, CH
Habitat: Moist woods at lower elevations
Rare Status: R1

**Hymenolobus procumbens** (L.) Nutt. ex Torr. & Gray
Hutchinsia
Herbaria: UBC, V
Range: Southwestern BC south to CA and east to WY and CO; NF; Old World
BC Range: Okanagan Highland (Spotted Lake)
Biogeoclimatic Zone: PP
Habitat: Sagebrush slopes
Rare Status: R1
Status Outside BC: Rare in SK

**Hypericum anagalloides** Cham. & Schlecht.
Bug St. John's-wort
HERBARIA: CAN, DAO, UBC, UVIC, V
RANGE: BC to Baja CA, east to MT
BC RANGE: Southwestern BC (Vancouver Island from Shawnigan Lake to Port Alice, Saltspring Island, Texada Island, mainland north to Powell River and east to Chilliwack)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Moist ground along the coast or in the mountains
RARE STATUS: R4

**Hypericum formosum** HBK
Scouler's Western St. John's-wort
HERBARIA: DAO, UBC, UVIC, V
RANGE: BC to Baja CA, east to MT and WY; c MX
BC RANGE: Southern BC (Vancouver Island from Sooke River to Port Alice, Texada Island, Pemberton, Powell River, Kamloops, Glacier National Park, Cranbrook, Terrace)
BIOGEOCLIMATIC ZONE: IH, PP, CF, CH
HABITAT: Moist places from the coast to the mountains
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Hypericum majus** (Gray) Britt.
Large Canadian St. John's-wort
HERBARIA: UBC, V
RANGE: BC to PQ, south to PA, NJ and CO
BC RANGE: Vancouver Island (Spider Lake, Sproat Lake), lower mainland (Pitt River, Harrison), Thompson Highland (Tranquille)
BIOGEOCLIMATIC ZONE: CF, CH, IF
HABITAT: Lake margins, beaches, wet depressions
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, NS, ID, IL, threatened in CO, PA, possibly extirpated in TN

**Idahoa scapigera** (Hook.) Nels. & Macbr.
Scaposa Scalepod
HERBARIA: CAN, V
RANGE: Southern BC east to ID and south to CA
BC RANGE: Vancouver Island (Mt. Douglas, Mt. Finlayson, Observatory Hill, Mill Hill, Jocelyn Hill, Lone Tree Hill, Gulf Islands (Saturna, Saltspring), Boston Bar, Grand Forks
BIOGEOCLIMATIC ZONE: CF, IF, PP
HABITAT: Dry hillsides, seepage areas on dry rocky slopes
RARE STATUS: R3

**Iliamna rivularis** (Dougl. ex Hook.) Greene
Mountain Hollyhock
HERBARIA: CAN, UBC, V
RANGE: Southern BC to OR east to MT and CO
BC RANGE: Scattered distribution in s BC east of Cascades (Salmon Arm, Nelson, Fernie, Tranquille, Queens Bay, Creston, Slocan Valley, Kelowna, Osoyoos, Grand Forks, Kootenay Lake, Galloway, Salmo, Penticton, Lumby)
BIOGEOCLIMATIC ZONE: IH, IF
HABITAT: Streambanks, mountain slopes and cliffs
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, uncommon in WA

**Impatiens aurella** Rydb.
Orange Touch-me-not
HERBARIA: UBC, V
MAP: Hultén 1968
RANGE: AK to OR, from the coast inland to AB, SK, MB and ID; Eurasia
BC RANGE: Skagit Range; Shuswap Highland; Purcell Mtns. (Bridal Falls, Duck Lake, Malakwa, Crawford Bay, Eagle River Canyon)
BIOGEOCLIMATIC ZONE: CH, IF
HABITAT: Moist woods
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in WA

**Ipomopsis aggregata** (Pursh) V.E. Grant
Scarlet Skyrocket
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern BC to MT, south to CA and MX
BC RANGE: South-central BC (Princeton, Manning Park, Grand Forks, Keremeos, Okanagan, Salmo, Rossland, Trail, Hedley, Armstrong, Penticton, Osoyoos)
BIOGEOCLIMATIC ZONE: IF, PP, IH
HABITAT: Open or lightly wooded rocky banks and slopes, drier meadows
RARE STATUS: R4

**Ipomopsis minutiflora** (Benth.) V.E. Grant
Small-flowered Ipomopsis
HERBARIA: CAN, DAO, UBC, V
RANGE: Central and e WA and adjacent BC and n ID, south to n OR, east throughout the Snake River plains of ID
BC RANGE: Thompson Plateau, Pacific Ranges, Okanagan Highland (Kamloops, Nicola Valley, Ashnola River, Spences Bridge, Lytton, Osoyoos)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry sandy places in plains and valleys
RARE STATUS: R2

**Iris missouriensis** Nutt.
Western Blue Iris
HERBARIA: DAO, UBC, V
REFERENCE: deVries 1966, Foster 1937
MAP: deVries 1966
RANGE: Western BC to s CA, east to se AB, ND, SD and south to n MX
BC RANGE: Bulkley Ranges; Teslin Plateau; Tagish Highland; Nechako Plateau; Fraser Basin — Nechako Plain (Atlin Lake, Telkwa, Prince George, Bennett Lake, Fraser Lake, Quick Station)
BIOGEOCLIMATIC ZONE: BS, SS, CA, PP, CF
HABITAT: Moist meadows and streambanks
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, uncommon in WA

**Iris setosa** Pallas ex Link in Spreng. *et al.* subsp. **setosa**
Northern Iris
HERBARIA: DAO, UBC, V
MAP: Hultén 1968
RANGE: AK, w-c YT, nw BC east to NF; Asia
BC RANGE: Boundary Ranges (Bennett)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Floodplains, tidal flats, meadows, lakeshores
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, AK

**Isoetes bolanderi** Engelm.
Bolander's Quillwort
HERBARIA: V
REFERENCE: Taylor 1971
MAP: Taylor 1971
RANGE: Southeastern BC, AB, MT and south to CA, CO and AZ
BC RANGE: Border Ranges (Akamina Pass)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Shallow water
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, AZ

**Isoetes nuttallii** A. Br. ex Engelm.
Nuttall's Quillwort
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1970
MAP: Taylor 1970
RANGE: Southwestern BC south to CA
BC RANGE: Vancouver Island and Gulf Islands (Victoria, Trial Island, Saltspring Island, south of Nanaimo, Newcastle Island, Nanoose Hill, Mitlenatch Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Vernal pools and seepage areas
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in WA

**Isoetes occidentalis** Henderson
Lake Quillwort
HERBARIA: UBC
REFERENCE: Taylor 1970
MAP: Taylor 1970
RANGE: Circumboreal south in w North America to CA and CO
BC RANGE: Vancouver Island (Cameron Lake), sw Mainland (Marion Lake)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Edges of lakes and ponds
RARE STATUS: R1

**Isopyrum savilei** Calder & Taylor
Queen Charlotte Isopyrum
HERBARIA: UBC, V
REFERENCE: Calder and Taylor 1965
RANGE: Extreme w BC
BC RANGE: Western (coastal) BC, Queen Charlotte Islands, Vancouver Island (Brooks Peninsula)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Moist shady crevices, wet talus, subalpine
RARE STATUS: R3
NOTE: Endemic to BC

**Iva axillaris** Pursh subsp. **robustior** (Hook.) Bassett in Bassett *et al.*
Small-flowered Poverty-weed
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Bassett *et al.* 1962
MAP: Bassett *et al.* 1962
RANGE: Southern BC east to MN and south to CA and OR
BC RANGE: Thompson and Fraser Highlands (Quilchina, Hat Creek, Cache Creek, Kamloops, Vernon, Kelowna)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Waste ground, cultivated ground
RARE STATUS: R3

**Jaumea carnosa** (Less.) Gray in Torr.
Fleshy Jaumea
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern BC south to s CA
BC RANGE: Southern Vancouver Island (Sooke, Saanichton, Sidney)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Tidal beaches, salt marshes
RARE STATUS: R1

**Juncus articus** Willd. subsp. **alaskanus** Hultén
Arctic Rush
HERBARIA: UBC
RANGE: Northeastern Asia to AK and w NT and south to n BC and n AB and east PQ; Greenland
BC RANGE: Stikine River at Tuaton Lake, Jct. of Toad and Racing rivers
BIOGEOCLIMATIC ZONE: BS
HABITAT: Wet places, river flats, alluvium
RARE STATUS: R1

**Jucus biglumis** L.
Two-flowered Rush
HERBARIA: DAO, UBC, V
MAP: Porsild and Cody 1980
RANGE: AK and YT south to n BC and AB; CO; east to n PQ; Eurasia
BC RANGE: Queen Charlotte Island (Upper Victoria Lake), Teresa Island, Spatsizi Plateau (Maternity Mtn.), Itcha Mtns.
BIOGEOCLIMATIC ZONE: AT, BS, ES
HABITAT: Wet tundra, mossy edges of ponds and streams
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, MB, CO, WY

**Juncus bolanderi** Engelm.
Bolander's Rush
HERBARIA: CAN, UBC, V
REFERENCE: Haber and Soper 1980
RANGE: Southern BC to c CA
BC RANGE: Vancouver Island (Victoria, Cowichan Lake, Ucluelet, Saanichton), Burnaby, South Pender Island, Saltspring Island, Lulu Island
BIOGEOCLIMATIC ZONE: MH, CF, CH
HABITAT: Marshes and river banks at low elevations
RARE STATUS: R2

**Juncus bulbosus** L.
HERBARIA: V
RANGE: Europe; BC to WA; NS, NF
BC RANGE: Southwestern BC (Pitt Lake, Cowichan Lake, Spectacle Lake, Duncan)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Lake margins
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in NS

**Juncus covillei** Piper
Covilles' Rush
HERBARIA: UBC, V
RANGE: Southwestern BC to s CA; ID
BC RANGE: Vancouver Island (Sprout Falls, Cameron Lake, Qualicum Falls, Sooke, Shawnigan Lake, Kennedy River, Nanaimo, Parksville, Steelhead), Powell River

BIOGEOCLIMATIC ZONE: CF
HABITAT: Lake margins
RARE STATUS: R3

**Juncus leseurii** Bolander
Salt Rush
HERBARIA: CAN, UBC, V
MAP: Calder and Taylor 1968
RANGE: Southwestern BC to c CA
BC RANGE: Queen Charlotte Islands (Oeanda River, Tlell), Vancouver Island (Guise Bay, Brooks Peninsula), Cox Island
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal marshes and dunes
RARE STATUS: R3

**Juncus oxymeris** Engelm.
Pointed Rush
HERBARIA: CAN, UBC, UVIC, V
RANGE: Southwestern BC south to CA
BC RANGE: Alberni, New Westminster, Pitt Lake, Galiano Island, Parksville
BIOGEOCLIMATIC ZONE: CF
HABITAT: Wet meadows
RARE STATUS: R1

**Juncus regelii** Buchenau
Regel's Rush
HERBARIA: UBC, V
RANGE: Southern BC south to CA and east to MT, WY and UT
BC RANGE: Queen Charlotte Islands, Vancouver Island, Bare Island, Chilliwack, Rogers Pass, Field, 20 miles from Mt. Curry
BIOGEOCLIMATIC ZONE: MH, CH, ES
HABITAT: Wet montane, subalpine or alpine meadows
RARE STATUS: R3

**Juncus stygius** L. subsp. **americanus** (Buchenau) Hultén
HERBARIA: UBC, V
REFERENCE: Hamet-Ahti 1965
MAP: Hultén 1968, Porsild and Cody 1980
RANGE: Circumboreal south in w North America to BC
BC RANGE: Wells Gray Park (Murtle Lake), 30 mi. north of Prince George (Summit Lake), 13 mi. nw of Prince George (Reid Lake), Vancouver Island (Brooks Peninsula, Port Hardy)
BIOGEOCLIMATIC ZONE: IH, CH
HABITAT: Bogs
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in SK, YT, NB, Continental NT, NS, NY,.endangered in ME, threatened in MI

**Juncus supinus** Moench = **J. bulbosus** L.

**Juncus torreyi** Coville
Torrey's Rush
HERBARIA: UBC, V
RANGE: BC south to s CA east to ON, ME and AL
BC RANGE: Kamloops, Kalamalka Lake, Winfield, Osoyoos, Okanagan Falls, Fairmont Hot Springs, Crawston
BIOGEOCLIMATIC ZONE: ES, CA, IH, IF, PP
HABITAT: Lake and stream margins
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in PQ

**Juncus tracyi** Rydb.
Tracy's Rush
HERBARIA: UBC
RANGE: BC to CO, AZ and NV
BC RANGE: Ross Lake, Lussier River at White-Lussier Forest Development Road
BIOGEOCLIMATIC ZONE: ES
HABITAT: Moist, boggy areas
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK, AZ, CO

**Juncus triglumis** L.
Three-flowered Rush
HERBARIA: UBC, V
MAP: Calder and Taylor 1968, Hultén 1968
RANGE: Circumboreal south in w North America to c BC, UT and CO
BC RANGE: Headwaters Sikanii Chief River, Gladys Lake, Tuaton Lake (Stikine River)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Streams and bogs at high elevations
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in YT, SK

**Kobresia sibirica** Turcz.
Siberian Kobresia
HERBARIA: V
MAP: Hultén 1968
RANGE: Northern Asia; AK to NT and south to BC
BC RANGE: Northern Rocky Mountains (Liard Plateau, McBride)
BIOGEOCLIMATIC ZONE: SW, IH
HABITAT: Wet places
RARE STATUS: R1

**Koenigia islandica** L.
Iceland Koenigia
HERBARIA: ALTA, CAN, UBC, V
MAP: Hultén 1968, 1971; Porsild 1964, Schofield 1959
RANGE: Circumpolar; AK, s YT, NT, south to CO, MT, MB, ON, PQ and Labrador; Greenland, Iceland, Eurasia
BC RANGE: Northwestern and c BC (Haines Road area, Spatsizi Plateau, Anahim Lake, near the AB border)
BIOGEOCLIMATIC ZONE: AT, ES, SW
HABITAT: Moist bare soil
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, MB, Continental NT, ON, CO

**Lasthenia minor** (DC.) Ornduff subsp. **maritima** (Gray) Ornduff
Hairy Goldfields
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Ornduff 1966
MAP: Ornduff 1966
RANGE: Southwestern BC south to c CA
BC RANGE: Islands off west coast of Vancouver Island (Triangle Island, Grassy Island)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Rocky bird-nesting cliffs, rocky islands
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in WA

**Lathyrus littoralis** (Nutt.) Endl. in Walp.
Gray Beach Peavine
HERBARIA: DAO, UBC, V
REFERENCE: Calder and Taylor 1968, Taylor 1974c
MAP: Calder and Taylor 1968, Taylor 1974c
RANGE: Coastal BC to c CA
BC RANGE: Queen Charlotte Islands (Rose Spit, Tlell River, Masset), Vancouver Island (Tofino, Saanichton)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal sand dunes
RARE STATUS: R2

**Lathyrus palustris** L.
Marsh Peavine
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1974c
MAP: Calder and Taylor 1968, Taylor 1974c
RANGE: Circumboreal, south in w North America to CA and CO
BC RANGE: Queen Charlotte Islands (Masset), Vancouver Island (Jordan River, Nerthey Lake, Alberni Canal), Ladner, Skeena
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal mudflats
RARE STATUS: R3

**Ledum palustre** L. subsp. **decumbens** (Ait.) Hultén
Northern Labrador Tea
HERBARIA: DAO, UBC, V
REFERENCE: Buttrick 1977, Szczawinski 1975b
MAP: Hultén 1968, 1971; Szczawinski 1975b
RANGE: AK, YT, through NT to Labrador and NF, south to n BC, n MB, n ON and PQ w Greenland; Eurasia
BC RANGE: Northwestern BC (Haines Cut-off area, Atlin Lake — Teresa Island)
BIOGEOCLIMATIC ZONE: SW, BS
HABITAT: Cold muskegs and bogs, heaths, dry rocky places
RARE STATUS: R4

**Leersia oryzoides** (L.) Swartz
Rice Cut Grass
HERBARIA: DAO, UBC, V
REFERENCE: Hubbard 1955
MAP: Hultén 1958
RANGE: BC east to PQ, south to most of the US
BC RANGE: Southwestern and s-c BC (Ladner, Burnaby Lake, Pitt Meadows, Rosedale, Sumas, Kamloops)
BIOGEOCLIMATIC ZONE: PP, CF
HABITAT: Wet places, marshes, riverbanks
RARE STATUS: R4

**Legousia perfoliata** (L.) Britt.
Clasp-leaved Venus'-looking-glass
HERBARIA: CAN, DAO, UBC, V
RANGE: Throughout the US and adjacent parts of Canada and MX, tropical America; introduced in Europe
BC RANGE: Southern BC; (Victoria, Yale, Shuswap, Kootenay Lake, Osoyoos Lake south from Armstrong)
BIOGEOCLIMATIC ZONE: CF, IF, IH
HABITAT: Valleys and plains to mountains, disturbed sites, dry woods, rocky banks
RARE STATUS: R4

**Lepidium oxycarpum** Torr. & Gray
Sharp-fruited Pepper-grass
HERBARIA: CAN
REFERENCE: Mulligan 1961
RANGE: Southwestern BC; CA
BC RANGE: Vancouver Island (Cadboro Bay)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Saline soil
RARE STATUS: R1

**Leptodactylon pungens** (Torr.) Nutt.
Prickly Phlox
HERBARIA: DAO, UBC, V
RANGE: WA east of the Cascades and adjacent s BC to Baja CA, east to MT, w NE and NM
BC RANGE: Thompson Plateau, Okanagan Range, Okanagan Highland (Keremeos, Penticton, Osoyoos, Oliver, Summerland)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry, open, sandy or rocky places
RARE STATUS: R2

**Lesquerella arctica** (Wormskj. ex. Hornem.) S. Wats.
Arctic Bladderpod
HERBARIA: UBC, V
RANGE: Northwestern Asia; AK to Greenland, south to n BC
BC RANGE: Summit Pass, Jct. of Toad and Racing Rivers, Good Hope Lake, Haines Road (Mile 66)
BIOGEOCLIMATIC ZONE: AT, SW
HABITAT: Clay soils, alluvium
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, MB, PQ

**Leucanthemum arcticum** (L.) DC.
Arctic Daisy
HERBARIA: CAN, GD
MAP: Porsild and Cody 1980
RANGE: Eastern Asia to coastal AK, south to nw BC
BC RANGE: Observatory Inlet
BIOGEOCLIMATIC ZONE: CH
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YK, Continental NT, MB

**Leucanthemum integrifolium** (Richards.) DC.
Entire-leaved Daisy
HERBARIA: CAN, DAO, GD, UBC, V
RANGE: Northeastern Asia to e NT and PQ, south to n BC
BC RANGE: AK Hwy. (Summit Pass, Muncho Lake, Mile 390)
BIOGEOCLIMATIC ZONE: BS, AT
HABITAT: Rock outcrops, tundra
RARE STATUS: R1

**Lewisia columbiana** (T.J. Howell) B. Rob. in Gray
Columbia Lewisia
HERBARIA: CAN, DAO, UBC, V
RANGE: Southwestern BC to nw CA, also in ne OR and adjacent ID
BC RANGE: Southwestern BC (Mt. Whymper, Mt. Arrowsmith, Manning Park, Skagit area)
BIOGEOCLIMATIC ZONE: AT, MH, ES
HABITAT: Exposed gravel banks and rocky slopes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in WA

**Lewisia pygmaea** (Gray) B. Rob. in Gray
Alpine Lewisia
HERBARIA: ALTA, DAO, GD, UBC, V
MAP: Hultén 1968
RANGE: Southern YT, BC and sw AB to s CA, MT, AZ and NM
BC RANGE: Southern BC (Mt. Arrowsmith, Errington, Botanie Valley, Nicola, Kamloops, Penticton, Mt. Baldy, Similkameen area, Westbranch area, Flathead)
BIOGEOCLIMATIC ZONE: AT, MH, ES
HABITAT: Open, gravelly sites in mountains, alpine tundra
RARE STATUS: R3

**Lewisia triphylla** (S. Wats.) B. Rob. in Gray
Three-leaved Lewisia
HERBARIA: DAO, UBC, V
REFERENCE: McNeill 1973
RANGE: Southern BC south to CA, east to MT and CO
BC RANGE: Vancouver Island Mtns. — Vancouver Island Ranges; Selkirk Mtns.; Rocky Mtn. Trench (Crest Mtn., Nelson, Fort Steele)
BIOGEOCLIMATIC ZONE: AT, MH, ES
HABITAT: Open sandy soil where moist in spring
RARE STATUS: R1

**Lewisia tweedyi** (Gray) B. Rob. in Gray
Tweedy's Lewisia
HERBARIA: UBC, V
REFERENCE: Chuang 1974, Kershaw and Morton 1976
RANGE: Southern BC and WA
BC RANGE: Hozameen Range (Manning Park)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Well-drained talus slopes, rock crevices
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Ligusticum calderi** Mathias & Constance
Calder's Lovage
HERBARIA: DAO, UBC, V
REFERENCE: Kershaw and Morton 1976, Mathias and Constance 1959
MAP: Calder and Taylor 1968
RANGE: Western BC
BC RANGE: Queen Charlotte Islands (Victoria Lake, Mt. Moresby, Shrimp Lake, Chaatl Island), Calvert Island, Vancouver Island (Brooks Peninsula)
BIOGEOCLIMATIC ZONE: MH, CF
HABITAT: Boggy slopes, rocky habitats, alpine areas
RARE STATUS: R3
NOTE: Endemic to BC

**Ligusticum canbyi** Coult. & Rose
Canby's Lovage
HERBARIA: CAN, UBC, V
REFERENCE: Haber and Soper 1980
RANGE: BC and WA to ne OR, east to ID and MT
BC RANGE: Southern BC (Kokanee, Trail, Salmo, Moyie, Trout Lake, Rossland, Nelson, Flathead, Mt. Revelstoke, Creston, Glacier National Park, Rogers Pass, Spillimacheen)
BIOGEOCLIMATIC ZONE: ES, IF, IF, CH
HABITAT: Moist meadows, streambanks, boggy slopes
RARE STATUS: R3

**Ligusticum scoticum** L. subsp. **hultenii** (Fern.) Calder & Taylor
Beach Lovage
HERBARIA: CAN, DAO, UBC, V
MAP: Calder and Taylor 1968, Hultén 1958, 1968
RANGE: Western and s AK, south to BC and e North America; Europe, Asia
BC RANGE: Queen Charlotte Lowland — Argonaut Plain; Queen Charlotte Mtns. — Skidegate Plateau, Queen Charlotte Ranges; Hecate Lowland (Moresby Camp, Skincuttle Inlet, Langara Island, Skidegate, Prince Rupert area)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Seashores, salt marshes
RARE STATUS: R1

**Ligusticum verticillatum** (Geyer) Coult. & Rose
Verticillate-umbel Lovage
HERBARIA: UBC
RANGE: Northern ID and w MT to se BC
BC RANGE: Selkirk Mtns. (Salmo-Creston Summit, Canyon Creek)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Streambanks
RARE STATUS: R1

**Lilaea scilloides** (Poir.) Haum.
Flowering Quillwort
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Pojar 1975
RANGE: BC to AB and s SK, south through WA and OR to CA, s ID, NV and MT; South America
BC RANGE: Skeena River (Khyex River delta), Pitt River, North Delta, Somass River
BIOGEOCLIMATIC ZONE: CH
HABITAT: Shallow water, coastal tidalflats, interior valleys
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada

**Lilaeopsis occidentalis** Coult. & Rose
Western Lilaeopsis
HERBARIA: CAN, DAO, UBC, V
MAP: Calder and Taylor 1968
RANGE: Southwestern BC to c CA
BC RANGE: Queen Charlotte Islands (Juskatla, Port Clements), Vancouver Island (Kyuquot, Nootka, Tofino, Ucluelet, Alberni, Qualicum Beach), Georgia and Fraser Lowlands (Point Grey, Caufield, Pitt Lake, Gibsons Landing)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Marshes, salt flats, sandy or muddy beaches, lake margins
RARE STATUS: R3

**Lilium philadelphicum** L.
Wood Lily
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1974b
MAP: Taylor 1974b
RANGE: BC south to NM, east to SK, NE, MI, KY, OH, WV and ME
BC RANGE: Eastern BC (Peace River District, Columbia River Valley south from Kinbasket Lake)
BIOGEOCLIMATIC ZONE: ES, BS, IH, IF
HABITAT: Heavy meadowland to montane forest
RARE STATUS: R3

**Limnanthes macounii** Trelease
Macoun's Meadow-foam
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Ornduff 1971
RANGE: Southern Vancouver Island and adjacent islands
BC RANGE: Metchosin, Victoria, Trial Island, Yellow Point, Saltspring Island
BIOGEOCLIMATIC ZONE: CF
HABITAT: Vernal pools, seepage areas on rocky slopes, wet depressions in open Douglas fir forests
RARE STATUS: R1
NOTE: Endemic to BC

**Limosella aquatica** L.
Water Mudwort
HERBARIA: DAO, UBC, V
REFERENCE: Pojar 1975, Taylor 1974a
MAP: Hultén 1968, Taylor 1974a
RANGE: Widespread in the Northern Hemisphere; Greenland, NT and AK, NF, PQ to BC
BC RANGE: Southern and c BC (New Westminster, Kamloops, Peace River area, Alberni, Comox, Skeena River, Kootenay Lake)
BIOGEOCLIMATIC ZONE: CA, PP, CH
HABITAT: Muddy shores of streams and ponds
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in YT, Continental NT, ON, endangered in MO

**Linanthus bicolor** (Nutt.) Greene
Bicolored Flaxflower
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern Vancouver Island to s CA; west of the Cascades, extending through the Columbia River Gorge to Klickitat County WA
BC RANGE: Nanaimo Lowland (Sooke, Curlew Island, east Mayne Island), Victoria, Nanaimo, Saltspring Island, Duncan, Saturna Island, Hornby Island, Wellington, Sahtlam, S. Pender Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open places at lower elevations
RARE STATUS: R2

**Linanthus harknessii** (Curran) Greene
Harkness' Flaxflower
HERBARIA: DAO, UBC, V
RANGE: Cascade-Sierra region from Kittitas County WA to CA, occasionally east to c ID and ne NV, s BC
BC RANGE: Thompson Plateau, Selkirk Mountains (Nelson, Kamloops area, Slocan Lake, Coldstream River)
BIOGEOCLIMATIC ZONE: PP, IF
HABITAT: Forest openings, dry meadows, open slopes and ridges
RARE STATUS: R1

**Linanthus septentrionalis** Mason
Northern Flaxflower
HERBARIA: DAO, UBC, V
RANGE: East of the Cascades from s BC to CA, east to AB and SK, WY and CO
BC RANGE: Thompson Plateau, Okanagan Range, Purcell Mountains, Border Ranges (Galton Range, Clark Range); (Kamloops area, Ashnola River, Cranbrook, Flathead area, Osoyoos, Spences Bridge)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Forest openings, dry meadows, open places
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in SK, endangered in SD

**Linaria canadensis** (L.) Dum. de Cours. var. **texana** (Scheele) Penn.
Blue Toadflax
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974
RANGE: Widespread across the US and adjacent Canada and MX
BC RANGE: Southwestern BC, Southern Vancouver Island, adjacent Gulf Islands and the Lower Mainland
BIOGEOCLIMATIC ZONE: CF
HABITAT: Sandy places in the open, seepage areas on grassy slopes
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in PQ

**Lindernia anagallidea** (Michx.) Penn.
False Pimpernel
HERBARIA: DAO, UBC, V
REFERENCE: Kershaw and Morton 1976, Taylor 1974a
MAP: Taylor 1974
RANGE: Widespread in North and South America
BC RANGE: South-central BC (Osoyoos Lake, Kamloops, Sicamous, Langley)
BIOGEOCLIMATIC ZONE: PP, IF, CH
HABITAT: Wet sandy or muddy places
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in MI, WA

**Liparis loeselii** (L.) L.C. Rich.
Loesel's Liparis
HERBARIA: DAO, UBC
REFERENCE: Correll 1950, Kershaw and Morton 1976, Luer 1975, Maher *et al.* 1979, Revel and Beamish 1972
MAP: Hultén 1958, Luer 1975
RANGE: BC and SK east to NS, NB and PE, south to WA and most of the US east of the Rocky Mtns.
BC RANGE: Shuswap Highland (Mara, Enderby)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Around springs, in bogs, damp thickets
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT, SK, IL, IA, NJ, endangered in MO, NC, ND, VT, threatened in RI, WA, extirpated in KS

**Lithophragma tenellum** Nutt. in Torr. & Gray
Slender Woodlandstar
HERBARIA: DAO, UBC, UC, V
REFERENCE: Taylor 1965
MAP: Taylor 1965
RANGE: East of Cascades in s BC, WA, OR; east and south to ID and CO
BC RANGE: South-central BC; Okanagan Highland (Anarchist Mtn., Penticton, Princeton)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Open **Pinus ponderosa** forests and grasslands
RARE STATUS: R4

**Lithospermum incisum** Lehm.
Yellow Gromwell
HERBARIA: ALTA, CAN, DAO, UBC, V, WS
RANGE: Plains of c US and adjacent Canada and MX, west to UT, MT and s BC to s ON
BC RANGE: Southern BC (Merritt, Chilcotin area, Kamloops, Summerland, Kimberley, Invermere, Spences Bridge, Lytton, Lillooet, Quesnel, Radium Hotsprings, Fort Steele, Clinton, Keremeos, Hedley, Oliver, Penticton, Ashcroft, Lac la Hache)
BIOGEOCLIMATIC ZONE: PP, CA, IF
HABITAT: Dry open plains and foothills
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in ON, IN

**Lloydia serotina** (L.) Richenb.
Alp Lily
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1974b
MAP: Porsild 1966, Taylor 1974b
RANGE: AK to nw OR, east to AB and south to NV, CO and NM; Arctic Eurasia
BC RANGE: Western BC (Haines Rd. area, Smithers, Hazelton, Terrace, throughout the Queen Charlotte Islands, Gladys Lake, Cassiar, Brooks Peninsula, Manning Park)
BIOGEOCLIMATIC ZONE: AT, MH, ES, CH
HABITAT: Gravelly ridges, cliffs, rock crevices, alpine tundra
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in WA

**Lobelia dortmanna** L.
Water Lobelia
HERBARIA: CAN, DAO, UBC, UVIC, V
MAP: Calder and Taylor 1968
RANGE: NF to MN, Vancouver Island and adjacent mainland in WA and BC, south to the Cascades of n OR; nw Europe
BC RANGE: Nanaimo Lowland, Georgia Lowland, Gulf Islands, Queen Charlotte Islands (Port Hardy, Sproat Lake, Cameron Lake, Shawnigan Lake, Wellington, Saltspring Island, Cowichan Lake, Powell River)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Shallow water at margins of lakes and ponds
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, MB, Continental NT, WA, NJ, threatened in PA, RI

**Lomatium brandegei** (Coult. & Rose) J.F. Macbr.
Brandegee's Lomatium
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Kershaw and Morton 1976
RANGE: Southwestern BC and WA
BC RANGE: Hozameen Range; Okanagan Range (se corner of Manning Park, Ashnola Range, Hedley area)
BIOGEOCLIMATIC ZONE: ES, IF, PP
HABITAT: Open or wooded slopes
RARE STATUS: R2

**Lomatium foeniculaceum** (Nutt.) Coult. & Rose
Fennel-leaved Lomatium
HERBARIA: DAO, UBC, V
REFERENCE: Theobald 1966
MAP: Theobald 1966
RANGE: BC to MB, MO and TX, west to MT, c and s ID, c and se OR, NV and AZ
BC RANGE: Alberta Plateau (Fort St. John, Bear Flat)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Dry open slopes
RARE STATUS: R1

**Lomatium sandbergii** (Coult. & Rose) Coult. & Rose
Sandberg's Lomatium
HERBARIA: ALTA, CAN, DAO, UBC, V
RANGE: Southeastern BC, sw AB, nw MT and n ID
BC RANGE: Purcell Mtns.; Rocky Mtn. Trench; Border Ranges — Clark Range, (South Kootenay Pass, Flagstone, Marysville, Sage Pass, Flathead area, N of Blue R (49° 37′ and 115° 25′), Wall Lake Area)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Open rocky slopes and ridges
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB

**Lomatogonium rotatum** (L.) Fries ex Nyman
Marsh Felwort
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Fernald 1970, Gillett 1963
MAP: Gillett 1963, Hultén 1971, 1968, Porsild 1966, 1964
RANGE: Greenland to AK, south to AB and BC, in the Rocky Mountains from ID and WY to NM; Siberia; PQ, ON, MB, NF and Labrador, SK, MB and CO; Circumboreal
BC RANGE: Boundary Ranges, Fort Nelson Lowland, Continental Ranges (Park Ranges) Rocky Mountain Foothills, Muskwa Ranges
BIOGEOCLIMATIC ZONE: AT, MH, ES
HABITAT: Wet, saline soil, turfy or sandy seashores
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in MB, Continental NT, ME

**Lonicera caerulea** L. var. **cauriana** (Fern.) Boiv.
Bluefly Honeysuckle
HERBARIA: V
REFERENCE: Taylor and Taylor 1979b
MAP: Hultén 1971
RANGE: Canada south of 60° N lat., south to CA, NV, WY, MN, PA; Eurasia
BC RANGE: Southwest BC (S of 52° N); Pacific Ranges
BIOGEOCLIMATIC ZONE: IH
HABITAT: Streambanks, moist places
RARE STATUS: R1

**Lonicera dioica** L.
Glaucous-leaved Honeysuckle
HERBARIA: CAN, DAO, UBC, V
RANGE: PQ to NC, west to Mackenzie, ne BC, SD and OK, se BC
BC RANGE: Georgia Lowland, Rocky Mountains, Columbia Mountains, Alberta Plateau, Liard Plateau (Liard Hot Springs, Canal Flats, Mt. Robson Park, Windermere, Field, Fort St. John, Fort Nelson, Powell River)
BIOGEOCLIMATIC ZONE: ES, SW, BS, IH
HABITAT: Woods, wet places
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT, PQ

**Lonicera hispidula** (Lindl.) Dougl. ex Torr. & Gray
Hairy Honeysuckle
HERBARIA: UBC, UVIC, V
RANGE: Southern BC to s CA
BC RANGE: Southwestern BC and ne BC (Vancouver Island, Gulf Islands, Toad River)
BIOGEOCLIMATIC ZONE: CF, CH, BS
HABITAT: Woods and thickets
RARE STATUS: R4

**Lotus formosissimus** Greene
Seaside Bird's-foot Trefoil
HERBARIA: UBC, UVIC, V
REFERENCE: Szczawinski and Harrison 1973, Taylor 1974c
MAP: Taylor 1974c
RANGE: Southwestern BC to c CA
BC RANGE: Southern Vancouver Island and adjacent islands (Victoria, Foul Bay, Rocky Point, Trial Island, Alpha Islet, Bentinck Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Moist places
RARE STATUS: R1

**Lotus micranthus** Benth.
Small-flowered Bird's-foot Trefoil
HERBARIA: UBC, UVIC
REFERENCE: Taylor 1974c
MAP: Taylor 1974c
RANGE: Southern BC to CA
BC RANGE: Southwestern mainland and s Vancouver Island (Caulfield, Victoria, Wellington, Nanoose Hill, Sooke, Parksville, Cowichan Lake), Gulf Islands (Mayne, Galiano, Saltspring, Gabriola, Savary, Domville)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Grassy places, mossy rocky bluffs
RARE STATUS: R4

**Lotus pinnatus** Hook.
Bog Bird's-foot Trefoil
HERBARIA: UBC, V
REFERENCE: Taylor 1974c
MAP: Taylor 1974c
RANGE: Southwestern BC to CA and ID
BC RANGE: Southern Vancouver Island (Nanaimo)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Streambanks and wet places
RARE STATUS: R1

**Lotus purshianus** (Benth.) Clem. & Clem.
Spanish-clover
HERBARIA: UBC, V
REFERENCE: Szczawinski and Harrison 1973, Taylor 1974a
MAP: Taylor 1974c
RANGE: Southwestern BC to n MX and east to MN and MO
BC RANGE: Southern Vancouver Island (Cowichan Lake), Gulf Islands (Saturna, South Pender)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Open rocky woods
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK

**Ludwigia palustris** (L.) Elliott
Water-purslane
HERBARIA: DAO, UBC, UVIC, V
RANGE: BC, WA, OR and CA, east to ON, PQ, NB, NS, MN, TX, FL; MX, Africa, Eurasia
BC RANGE: Southwestern BC (Alberni, Little Campbell River, Somenos Lake, Chilliwack, Burnaby Lake)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Marshes, bogs, ponds
RARE STATUS: R4

**Luina nardosmia** (Gray) Cronq. in Hitchc. et al. var. **glabrata** (Piper) Cronq. in Hitchc. et al.
Silvercrown Luina
HERBARIA: DAO, UBC, V
REFERENCE: Douglas 1982, Strother 1978
MAP: Douglas 1982
RANGE: Southern BC south to n CA
BC RANGE: Cascade Mountains; Manning Park (Mt. Frosty)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Grassy ravines, edges of forests
RARE STATUS: R1

**Lupinus arbustus** Dougl. ex Lindl. subsp. **neolaxiflorus** Dunn
Grassland Lupine
HERBARIA: DAO
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
MAP: Dunn and Gillett 1966, Taylor 1974c
RANGE: Southeastern BC south to n OR and s ID
BC RANGE: Moyie Lake, Fernie
BIOGEOCLIMATIC ZONE: IH, IF
HABITAT: Meadows and rocky hills
RARE STATUS: R1

**Lupinus argenteus** Pursh
Silvery Lupine
HERBARIA: UBC, V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
MAP: Dunn and Gillett 1966, Taylor 1974c
RANGE: Southern BC to s SK and south to NM
BC RANGE: Skagit Valley (near Ross Lake), s Okanagan Valley
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Sagebrush hills, **Pinus ponderosa** forests and grasslands
RARE STATUS: R1

**Lupinus bicolor** Lindl.
Bicolored Lupine
HERBARIA: DAO, UBC, UVIC, V
REFERENCE: Dunn and Gillet 1966, Taylor 1974c
MAP: Dunn and Gillet 1966, Taylor 1974c
RANGE: Southwestern BC to n CA
BC RANGE: Southern Vancouver Island (Nanoose Hill, Victoria, Thetis Lake, Qualicum Falls, Nanaimo), Gulf Islands (South Pender, Trial, Savary, Saturna, Saltspring)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Sandy coastal areas
RARE STATUS: R4

**Lupinus densiflorus** Benth.
Dense-flowered Lupine
HERBARIA: CAN, UBC, V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
MAP: Dunn and Gillett 1966, Taylor 1974c
RANGE: Southwestern BC south to Baja CA; Chile
BC RANGE: Victoria (Beacon Hill Park, Dallas Rd., Clover Point)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open, grassy areas
RARE STATUS: R1
NOTE: Possibly introduced

**Lupinus kuschei** Eastw.
Yukon Lupine
HERBARIA: UBC, V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
MAP: Dunn and Gillett 1966, Hultén 1968
RANGE: Northern BC and s YT to c CA
BC RANGE: Teresa Island, Mt. Edziza
BIOGEOCLIMATIC ZONE: AT, BS
HABITAT: Open woods and river terraces
RARE STATUS: R1

**Lupinus lepidus** Dougl. ex Lindl.
Prairie Lupine
HERBARIA: UBC, V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
MAP: Dunn and Gillett 1966, Taylor 1974c
RANGE: Southern BC to n OR
BC RANGE: Scattered distribution in s part of Province (Victoria, Cathedral Lakes, Lillooet, Mt. McLean, Bomford Mtn., Noaxe Lake, Cranbrook)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Dry gravelly places, meadows
RARE STATUS: R1

**Lupinus leucophyllus** Dougl. ex Lindl.
Velvet Lupine
HERBARIA: UBC, V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
MAP: Taylor 1974c
RANGE: Southern BC to se WY and south to UT and CA
BC RANGE: Lumby, Lone Pine Creek
BIOGEOCLIMATIC ZONE: PP
HABITAT: Open pine woods
RARE STATUS: R1

**Lupinus littoralis** Dougl. ex Lindl.
Chinook Lupine
HERBARIA: DAO, UBC, V
REFERENCE: Calder and Taylor 1968, Dunn and Gillett 1966, Taylor 1974c
MAP: Calder and Taylor 1968, Dunn and Gillett 1966, Taylor 1974c
RANGE: Coastal BC to n CA
BC RANGE: Queen Charlotte Islands (Tlell, Masset), Vancouver Island (Sooke, Jordan River, Comox, n. of Campbell River), Savary Island, Denman Island, Point Grey
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Sandy beaches and dunes
RARE STATUS: R4

**Lupinus minimus** Dougl.
Least Lupine
HERBARIA: V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
RANGE: Southern BC and sw AB south to e WA and MT
BC RANGE: Columbia River drainage, Keremeos (Anvil Mtn.)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Open grasslands
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Lupinus polycarpus** Greene
Small-flowered Lupine
HERBARIA: DAO, UBC, V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
MAP: Dunn and Gillett 1966, Taylor 1974c
RANGE: Southwestern BC south to s CA
BC RANGE: Vancouver Island (Victoria, Nanoose Hill, Sidney, Nanaimo, Mt. Douglas Park, Goldstream)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open sandy and gravelly areas
RARE STATUS: R2

**Lupinus rivularis** Dougl. ex Lindl.
Streambank Lupine
HERBARIA: UBC, V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
RANGE: Southwestern BC south to n CA
BC RANGE: Vancouver Island (Sooke), head of Bute Inlet
BIOGEOCLIMATIC ZONE: CH
HABITAT: Open lowlands, mudflats
RARE STATUS: R1

**Lupinus vallicola** A. Heller
Open Lupine
HERBARIA: UBC, V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
MAP: Dunn and Gillett 1966, Taylor 1974c
RANGE: Southwestern BC south to s CA
BC RANGE: Southern Vancouver Island (Thetis Lake, Victoria, Comox)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open pastures and fields
RARE STATUS: R2

**Lupinus wyethii** S. Wats.
Wyeth's Lupine
HERBARIA: UBC, V
REFERENCE: Dunn and Gillett 1966, Taylor 1974c
MAP: Dunn and Gillett 1966, Taylor 1974c
RANGE: Southern BC and s AB south to CA and CO
BC RANGE: Okanagan Highland and Lower Arrow Lakes area (Penticton, Olalla, Kaleden, Anarchist Mtn., Oliver, Monashee Mtns.)
BIOGEOCLIMATIC ZONE: IH, IF, PP
HABITAT: Open places
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB

**Luzula arctica** Blytt = **L. nivalis** (Laest.) Beurl.

**Luzula confusa** Lindeb.
Northern Wood-rush
HERBARIA: CAN, UBC
MAP: Hultén 1968, Porsild and Cody 1980

RANGE: Circumboreal south in w North America to BC and AB
BC RANGE: Summit Pass, Spatsizi Plateau (Maternity Mtn.), Teresa Island, Mt. Hazel, Liard Plateau, Gladys Lake
BIOGEOCLIMATIC ZONE: AT, SW, BS
HABITAT: Alpine tundra and heathlands, sandy or gravelly soils
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK, endangered in ME

**Luzula groenlandica** Bocher
Greenland Wood-rush
HERBARIA: SFUV, UBC, V
RANGE: AK south to BC and east to Greenland
BC RANGE: Northwestern BC (Teresa Island, Level Mountain)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Wet places in alpine tundra
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT

**Luzula nivalis** (Laest.) Beurl.
Snow Wood-rush
HERBARIA: V
RANGE: Circumpolar, south in western North America to AK, NT and BC
BC RANGE: Northwestern BC (n Rocky Mountains, Liard Plateau, Mt. Edziza)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Cold exposures in alpine tundra
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in PQ

**Luzula rufescens** Fisch. ex E. Meyer
Rufous Wood-rush
HERBARIA: CAN, UBC
MAP: Porsild and Cody 1980
RANGE: Eastern Asia, AK to n BC
BC RANGE: Sikanii and Beaton rivers; AK Hwy. Mile 276, Richardson Hwy. (Shaw Creek)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Wet places
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Lycopodium selago** L. var. **miyoshianum** (Mak.) Mak. = **Huperzia selago** L. var. **miyoshianum** (Mak.) Taylor & MacBryde

**Lycopus asper** Greene
Rough Water Horehound
HERBARIA: CAN, UBC, V
RANGE: Southern BC to CA, east to CO, IA, MN, SK and rarely to MI and ON; c AK
BC RANGE: Interior Highlands (Nicola Lake, Okanagan Lake, Spotted Lake, Kamloops, Williams Lake, Lac la Hache, Spences Bridge, Cache Creek, Vernon)
BIOGEOCLIMATIC ZONE: PP, IF
HABITAT: Marshes, shores of streams and lakes at lower elevations
RARE STATUS: R4

**Lygodesmia juncea** (Pursh) D. Don
Rushlike Skeletonplant
HERBARIA: CAN, UBC, V
REFERENCE: Tomb, 1980
MAP: Tomb 1980
RANGE: Southeastern BC east to MN and south to AR and AZ
BC RANGE: Columbia River Valley (Canal Flats, Invermere, Windermere), southwest of Princeton
BIOGEOCLIMATIC ZONE: IF
HABITAT: Grassy fields
RARE STATUS: R2

**Lythrum alatum** Pursh
Winged Loosestrife
HERBARIA: CAN, UBC
RANGE: BC east to s ON and MA, south to SD, TX and GA
BC RANGE: Thompson Plateau (Griffin Lake)
BIOGEOCLIMATIC ZONE: IH, IF
HABITAT: Swampy to fairly dry soil
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada

**Machaeranthera canescens** (Pursh) Gray
Hoary Tansyaster
HERBARIA: CAN, DAO, GD, UBC, V
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: Southern BC east to SK and south to AZ and s CA
BC RANGE: Okanagan Highland (Osoyoos, Penticton, Anarchist Mtn., Kelowna, Summerland), Cranbrook
BIOGEOCLIMATIC ZONE: CH, IF, PP
HABITAT: Sagebrush hillsides
RARE STATUS: R4

**Madia madioides** (Nutt.) Greene
Woodland Tarweed
HERBARIA: CAN, UBC, V
RANGE: Southwestern BC south to CA
BC RANGE: Vancouver Island (Victoria, Durrance Lake, Saanichton, Cowachan Lake, Nanaimo, Cameron Lake), Gulf Islands (Mayne, Prevost, Saltspring, Saturna)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open fields and woods
RARE STATUS: R4

**Madia minima** (Gray) Keck
Small-headed Tarweed
HERBARIA: DAO, UBC, V
RANGE: Southern BC and n ID south to CA
BC RANGE: Southern interior (46 mi. north of Grand Forks), Vancouver Island (Sooke, Mt. Finlayson)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Grassy areas
RARE STATUS: R1

**Malaxis monophyllos** (L.) Swartz var. **monophyllos**
One-leaved Malaxis
HERBARIA: ALTA, DAO, UBC, V
REFERENCE: Luer 1975, Szczawinski 1975a
MAP: Hultén 1962, 1968; Luer 1975, Szczawinski 1975a

RANGE: AK, YT, BC to NB, NS to NF, south to CA and CO, the Great Lakes and New England states, NJ, ME and PA; Japan
BC RANGE: Kitimat Ranges; Muskwa Ranges; Pacific Ranges; Vancouver Island Mtns. — Vancouver Island Ranges (Salvus, AK Hwy — mile 396, North Nanaimo River, Bute Inlet)
BIOGEOCLIMATIC ZONE: BS, CF, CH
HABITAT: Shady places, along streams, damp woods, bogs, muskegs
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, SK, MB, NS, NB, CA, CT, MA, NJ, endangered in CO, ME, VT, threatened in WI, extirpated in WI, possibly extirpated in NH

**Malaxis monophyllos** (L.) Swartz var. **diphyllos** (Cham.) Luer
White Malaxis
HERBARIA: UBC
REFERENCE: Beese 1983
MAP: Beese 1983
RANGE: Aleutian Islands; coastal BC
BC RANGE: Queen Charlotte Islands (Graham Island, Skowkona Creek)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Boggy areas
RARE STATUS: R1

**Malaxis paludosa** (L.) Swartz = **Hammarbya paludosa** (L.) O. Kuntze

**Marah oreganus** (Torr. & Gray) T.J. Howell
Oregon Manroot
HERBARIA: UBC, UVIC, V
REFERENCE: Stocking 1955
RANGE: Southern BC to n CA, rarely extending east as far as the Snake River along the OR-ID boundary
BC RANGE: Southwest BC (Vancouver Island, Gulf Islands, Nanaimo Lowlands)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Bottom lands, fields, thickets and open hillsides
RARE STATUS: R1

**Marsilea vestita** Hook. & Grev.
Hairy Pepperwort
HERBARIA: UBC, V
REFERENCE: Taylor 1971
MAP: Taylor 1971
RANGE: Southern BC south to s CA and TX
BC RANGE: Thompson Plateau and Shuswap Highland (Kamloops, Vernon, Osoyoos Lake)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Shallow lake margins
RARE STATUS: R1

**Mecodium wrightii** (Bosch) E.B. Copeland
Wright's Filmy Fern
HERBARIA: UBC
REFERENCE: Calder and Taylor 1968, Taylor 1967, 1971
MAP: Calder and Taylor 1968, Hultén 1968, Taylor 1967, 1971
RANGE: Japan, Korea, s AK, coastal BC
BC RANGE: Queen Charlotte Islands, Vancouver Island (Brooks Peninsula), n coastal islands
BIOGEOCLIMATIC ZONE: CH
HABITAT: Humid, shaded boulders, cliffs, tree trunks
RARE STATUS: R2

**Meconella oregana** Nutt. in Torr. & Gray
White Meconella
HERBARIA: CAN, UBC, V
REFERENCE: Janszen 1977
RANGE: West of the Cascades from BC south to CA
BC RANGE: Nanaimo Lowland (Victoria, Nanaimo, Saturna Island, Tod Inlet, Mt. Douglas, Mt. Finlayson)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open ground and prairies where wet in spring
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in WA

**Melica harfordii** Boland.
Harford's Melic Grass
HERBARIA: CAN, UBC, WS, V
REFERENCE: Boyle 1945, Hubbard 1955
MAP: Boyle 1945
RANGE: BC through WA and OR to CA
BC RANGE: Vancouver Island Mountains — Alberni Basin; Nanaimo Lowlands, Selkirk Mountains (Alberni, Cameron Lake, Saanich, Trout Lake)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Dry areas in lower mountains, open woods
RARE STATUS: R2

**Melica spectabilis** Scribn.
Purple Onion Grass
HERBARIA: CAN, UBC, V, WS
REFERENCE: Boyle 1945, Hubbard 1955
MAP: Boyle 1945
RANGE: BC south to n CA, east to AB, MT, WY and CO
BC RANGE: Throughout s BC (Spences Bridge, Okanagan, Kootenays, Flathead)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Moist meadows, open parks in mountain forests
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Mentzelia albicaulis** Dougl. ex Hook.
White-stemmed Blazing-star
HERBARIA: CAN, DAO, UBC, V
RANGE: BC to s CA, east to MT and NM
BC RANGE: Southern BC (Lytton, Spences Bridge, Osoyoos, Lillooet, Cache Creek, Keremeos, Savona, Oliver, Summerland)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry sandy soil in desert valleys and foothills
RARE STATUS: R4

**Mertensia maritima** (L.) S.F. Gray
Sea Mertensia
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Argus and White 1977
MAP: Calder and Taylor 1968; Hultén 1958, 1968; Porsild 1964
RANGE: Circumpolar; (Coastal-insular AK, coastal n YT, east to NF, south to MA)
BC RANGE: Queen Charlotte Islands (Skidegate Plateau, Argonaut Plain, Tlell, Sandspit, Masset, Skidegate)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Sandy seashores
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, MB, Continental NT, ON, MA

**Mertensia oblongifolia** (Nutt.) G. Don
Oblong-leaved Mertensia
HERBARIA: UBC, V, WS
RANGE: East side of the Cascades in WA to the edge of the plains east of the mountains in MT, south to c NV, n UT and n WY
BC RANGE: Southern BC (Purcell Mountains, Shuswap Highland: Cranbrook, Chase)
BIOGEOCLIMATIC ZONE: ES, IF, PP
HABITAT: Open slopes and drier meadows
RARE STATUS: R1

**Microseris bigelovii** (Gray) Sch.-Bip.
Coast Microseris
HERBARIA: CAN, DAO, F, GH, MO, NY, UC, V
REFERENCE: Chambers 1955
MAP: Chambers 1955
RANGE: Southern BC south to CA
BC RANGE: Southern Vancouver Island
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Open moist places
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Microseris lindleyi** (DC.) Gray
Lindley's Microseris
HERBARIA: V
REFERENCE: Douglas and Ruyle-Douglas 1978
RANGE: Southwestern BC; e WA south to UT and NV
BC RANGE: Gulf Islands (Saturna Island, Ruxton Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Grassy, open bluffs
RARE STATUS: R1

**Microseris linearifolia** (Nutt.) Sch.-Bip. = **Microseris lindleyi** (DC.) Gray

**Microseris troximoides** Gray = **Nothocalis troximoides** (Gray) Greene

**Mimulus alsinoides** Dougl. ex Benth.
Chickweed Monkeyflower
HERBARIA: UBC, UVIC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southwestern BC to n CA, west of the Cascades
BC RANGE: Southwestern BC, Southern Vancouver Island and adjacent islands and mainland to Hellsgate
BIOGEOCLIMATIC ZONE: CF
HABITAT: Wet places, mossy cliffs
RARE STATUS: R4

**Mimulus breviflorus** Piper
Short-flowered Monkeyflower
HERBARIA: DAO, V
REFERENCE: Taylor 1974
MAP: Taylor 1974a
RARE: WA to c OR, east of the Cascades to e ID
BC RANGE: Southern Interior (Grand Forks, Newgate, Adams Lake)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Damp open places
RARE STATUS: R3

**Mimulus breweri** (Greene) Coville
Brewer's Monkeyflower
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1974
MAP: Taylor 1974a
RANGE: In and east of the Cascades from s BC to ID, south to CA, MT and WY
BC RANGE: Monashee Mountains (Near Rossland, Bridesville)
BIOGEOCLIMATIC ZONE: IH
HABITAT: Damp sandy soil at moderate elevations
RARE STATUS: R1

**Mimulus dentatus** Nutt. ex Benth.
Tooth-leaved Monkeyflower
HERBARIA: V
RANGE: Southwestern BC south to CA
BC RANGE: Vancouver Island (Port Renfrew, Nitinat River)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Alluvial forests
RARE STATUS: R1

**Minuartia dawsonensis** (Britt.) House
Rock Sandwort
HERBARIA: V
MAP: Hultén 1968
RANGE: AK and n BC, south to AB and MN, east to NF
BC RANGE: Throughout n BC
BIOGEOCLIMATIC ZONE: BS
HABITAT: Moist places in the lowlands
RARE STATUS: R3

**Minuartia nuttallii** (Pax) Briq.
Nuttall's Sandwort
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Porter 1972
RANGE: BC and AB south to WY, UT, NV and CA
BC RANGE: Southern BC (Cheam, Garibaldi, South Kootenay Pass, Sage Pass, Akamina Ridge, Trophy Mtn.)
BIOGEOCLIMATIC ZONE: ES, IF, PP
HABITAT: Sagebrush hills, alpine tundra
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Minuartia pusilla** (S. Wats.) Mattf.
Dwarf Sandwort
HERBARIA: V
REFERENCE: Ceska and Ceska 1980
RANGE: Southwestern BC to nw CA
BC RANGE: Southern Vancouver Island (Church Mountain)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Depressions in rocks close to the shore
RARE STATUS: R1

**Mitella caulescens** Nutt. in Torr. & Gray
Creeping Mitrewort
HERBARIA: CAN, V
RANGE: Southern BC to nw CA, east to n ID and nw MT
BC RANGE: Vancouver Island Mountains (Alberni Basin, Roger Creek), Skagit Range of Cascades (Chilliwack River and Lake)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Deep woods, seacoast to midmontane
RARE STATUS: R1

**Mollugo verticillata** L.
Common Carpetweed
HERBARIA: DAO, UBC, V
REFERENCE: Eastham 1947
RANGE: BC to Baja CA, east over most of temperate North America
BC RANGE: Fraser Lowland (Agassiz, Mission), Shuswap Highland (Sicamous)
BIOGEOCLIMATIC ZONE: CH, CF, IF
HABITAT: Swampy to moderately dry soil
RARE STATUS: R1

**Monarda fistulosa** L. = **M. menthifolia** R. Grah.

**Monarda menthifolia** R. Grah.
Mint-leaved Bergamot
HERBARIA: CAN, DAO, UBC, V, WS
RANGE: BC to PQ, south to AZ, n MX and GA
BC RANGE: Southern and ne BC (Williams Lake, Dawson Creek, Fort St. John, Vernon, Cranbrook, Armstrong, Penticton, Waldo, Elko, Tobacco Plains, Wardner, Kamloops, Chase, Manning Park, Clayhurst)
BIOGEOCLIMATIC ZONE: IF, PP, BS
HABITAT: Moist open places in valleys and mountains
RARE STATUS: R3

**Montia bostockii** (Porsild) Welsh
Bostock's Montia
HERBARIA: CAN, UBC, V
REFERENCE: McNeill and Findlay 1971
MAP: Hultén 1968
RANGE: Southwestern YT and e-c AK
BC RANGE: Kusawak Range
BIOGEOCLIMATIC ZONE: SW, AT
HABITAT: Wet places in mountains
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada, threatened in AK

**Montia dichotoma** (Nutt.) T.J. Howell
Dwarf Montia
HERBARIA: CAN, UBC, V
RANGE: Southwestern BC and w WA to n CA, east to ID and w MT
BC RANGE: Nanaimo Lowland; Okanagan Highland; Thompson Plateau (Mayne Island, Victoria, Nanaimo, Vernon, Oliver)
BIOGEOCLIMATIC ZONE: IF, PP, CF
HABITAT: Moist areas in lowlands
RARE STATUS: R2

**Montia diffusa** (Nutt.) Greene
Branching Montia
HERBARIA: UBC, V
RANGE: West side of the Cascades from BC to CA
BC RANGE: Vancouver Island Mtns. — Vancouver Island Ranges, Alberni Basin (Cameron Lake, Alberni)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Moist woods
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Montia fontana** L. subsp. **variabilis** Walt.
Blinks
HERBARIA: UBC
MAP: Calder and Taylor 1968, Hultén 1968
RANGE: AK south to CA and ID, east across Canada to ME; Greenland, Iceland, Eurasia
BC RANGE: Vancouver Island (Somass River, Alberni, Millstream, Victoria) Trial Island, Triangle Island
BIOGEOCLIMATIC ZONE: CH
HABITAT: Wet places (sometimes aquatic and floating)
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in YT, ON, Continental NT, MB

**Montia howellii** S. Wats.
Howell's Montia
HERBARIA: CAN, UBC, V
RANGE: West of the Cascades from BC to nw CA
BC RANGE: Nanaimo Lowland; Hecate Lowland (Nanoose Bay, Mayne Island, Trial Island, Triangle Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Moist lowland areas
RARE STATUS: R2

**Muhlenbergia filiformis** (Thurb. ex S. Wats.) Rydb.
Slender Muhlenbergia
HERBARIA: CAN, UBC, V
RANGE: BC to AB and SD, south to CA, AZ and NM
BC RANGE: Vancouver Island Mtns. — Estevan Coastal Plain; Fraser Lowland; Alberta Plateau (Ucluelet, Chilliwack Lake, Clayhurst Ecological Reserve)
BIOGEOCLIMATIC ZONE: ES, IF, CH
HABITAT: Near springs or seepage, moist meadows in mountain valleys, subalpine slopes
RARE STATUS: R1

**Muhlenbergia glomerata** (Willd.) Trin.
Marsh Muhlenbergia
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Hamet-Ahti 1965, Hubbard 1955, Mitchell and Pohl 1966
MAP: Hultén 1968, Mitchell and Pohl 1966
RANGE: BC south to ne OR, NV, AZ and n MX, east to NF, WI, IN, ME, OK, TN, VA and MD
BC RANGE: Throughout e BC (Liard River, Wells Gray Park, Columbia River Valley)
BIOGEOCLIMATIC ZONE: IH, IF, PP
HABITAT: Moist meadows, streambanks, irrigation ditches, lake margins
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in YT

**Myosotis verna** Nutt.
Spring Forget-me-not
HERBARIA: UBC, V
RANGE: Eastern US and adjacent Canada, s BC, WA, OR and ID
BC RANGE: Southern BC; Pacific Ranges, Fraser Lowland, Thompson Plateau, Purcell Mountains, Border Ranges (Clark Range); (Crawford Bay, Osoyoos, Lake Erroch, Sage Pass, Bella Coola)
BIOGEOCLIMATIC ZONE: IF, PP, CF
HABITAT: Open wet or dry places in foothills and lowlands
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in MN

**Myosurus aristatus** Benth. ex Hook.
Bristly Mousetail
HERBARIA: CAN, DAO, UBC, V

RANGE: Southern BC south to CA east of Cascades; east to MT, WY and UT
BC RANGE: Thompson and southern Fraser Plateau (Merritt, Spences Bridge, Lytton)
BIOGEOCLIMATIC ZONE: PP, IF
HABITAT: Sagebrush and grassland, moist in spring
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Myosurus minimus** L.
Tiny Mousetail
HERBARIA: UBC, V
RANGE: Southern BC, south to CA east to ON, VA, NC and TX
BC RANGE: Southwestern and s-c BC (Whipsaw Creek, Merrit, Saanich)
BIOGEOCLIMATIC ZONE: CF, PP
HABITAT: Sagebrushland grassland, sandy shores
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in MB, ON

**Myrica californica** Cham. & Schlecht.
California Bayberry
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Brayshaw 1976
MAP: Brayshaw 1976
RANGE: Southwestern BC to CA
BC RANGE: Estivan Coastal Plain (Clayoquot, Tofino, Ucluelet, Kennedy Lake, Stubbs Island, Cox Bay)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Forest edges facing ocean beach, sand dunes
RARE STATUS: R1

**Myriophyllum elatinoides** Gaud. = **M. quitense** HBK

**Myriophyllum farwellii** Morong
Farwell's Water-milfoil
HERBARIA: CAN, DAO, UBC, UC, UVIC, V
REFERENCE: Aiken 1981, Ceska and Warrington 1976
RANGE: NS to NY and MN; BC
BC RANGE: Vancouver Island, Campbell River area (Echo Lake, Mahun Lake, Brewster Lake), Wells Gray Park
BIOGEOCLIMATIC ZONE: CF, IF
HABITAT: Lakes
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in NS, endangered in WI, threatened in MI, PA

**Myriophyllum hippuroides** Nutt. ex Torr. & Gray
Western Water-milfoil
HERBARIA: UBC, V
REFERENCE: Aiken 1981
RANGE: Southwestern BC to NE and TX
BC RANGE: Fraser Lowland (Queensborough, Mission City, Pitt Lake, Steelhead)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Ponds
RARE STATUS: R2

**Myriophyllum quitense** HBK
Waterwort Water-milfoil
HERBARIA: CAN, V
MAP: Hultén 1968, 1971
RANGE: Scattered in North America; BC, WA, OR, PE, MX and South America
BC RANGE: Vancouver Island (Cowichan River, Kennedy Lake)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Rivers, exposed beaches with surf
RARE STATUS: R2

**Myriophyllum ussuriense** (Regel) Maximovicz
HERBARIA: V
RANGE: Eastern Asia; w North America (BC)
BC RANGE: Vancouver Island (Kennedy River), lower mainland (Pitt Lake, Hatzic Lake), Kootenay Lake, Shuswap Lake
BIOGEOCLIMATIC ZONE: CH, IH
HABITAT: Muddy lake margins or river banks
RARE STATUS: R2

**Navarretia intertexta** (Benth.) Hook.
Needle-leaved Navarretia
HERBARIA: DAO, UBC, V
RANGE: Southwestern BC, WA to CA, eastward to SK, CO and AZ
BC RANGE: Thompson Plateau, Nanaimo Lowland (Anderson Creek, Victoria Millstream, Langley Prairie, Thetis Lake Park)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open slopes, meadows, margins of pools
RARE STATUS: R1

**Navarretia squarrosa** (Eschscholtz) Hooker & Arnott
Skunkweed
HERBARIA: CAN, DAO, UBC, UVIC, V
REFERENCE: Janszen 1977
RANGE: West of the Cascades from s Vancouver Island to CA
BC RANGE: Southwestern BC (Saanich, Sidney, Victoria, Ganges, Mayne Island, Cowichan Lake, Gabriola Island, Saturna Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open places
RARE STATUS: R4

**Nemophila breviflora** Gray
Great Basin Nemophila
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Constance 1941
MAP: Constance 1941
RANGE: Marble Mountains, BC and east of the Cascades in WA, OR and n CA, east to MT, CO, sw AB, ID and n UT
BC RANGE: Thompson Plateau, Okanagan Highland, Selkirk Mountains, Monashee Mountains (Okanagan area, Spences Bridge, Penticton, Nelson, Oliver, Rossland)
BIOGEOCLIMATIC ZONE: IH, IF, PP
HABITAT: Wooded slopes, thickets, open places
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB

**Nemophila pedunculata** Dougl. ex Benth.
Meadow Nemophila
HERBARIA: DAO, UBC, V, WS
REFERENCE: Constance 1941
MAP: Constance 1941
RANGE: OR and CA, extending into adjacent parts of Baja CA, NV and ID, north through w WA to s Vancouver Island

BC RANGE: Nanaimo Lowland (Victoria, Duncan, Nanoose, Saanichton, Cowichan River, Saltspring Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Moist open places, meadows, bottomlands
RARE STATUS: R2

**Nicotiana attenuata** Torr. ex S. Wats.
Coyote Tobacco
HERBARIA: DAO, UBC, V
RANGE: Southern BC and n ID to Baja CA, Sonora MX and TX, east of the Cascades
BC RANGE: Thompson Plateau, Cascade Mountains, Nanaimo Lowland (Spences Bridge, Lytton, Victoria)
BIOGEOCLIMATIC ZONE: PP, CF
HABITAT: Dry sandy bottom lands, dry open areas
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Nothocalais troximoides** (Gray) Greene
False Agoseris
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern BC east to w MT and south to n CA and n UT
BC RANGE: Interior Highlands (Oliver, Penticton, Anarchist Mountain, Osoyoos, Summerland, Hedley, Kelowna)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Grasslands, open forest of **Pinus ponderosa**
RARE STATUS: R4

**Nymphaea tetragona** Georgi
Pygmy Water-lily
HERBARIA: UBC
MAP: Porsild and Cody 1980
RANGE: Circumboreal, south in w North America to n WA and ID
BC RANGE: Scattered distribution; ne of Prince George (Aleza Lake, Hansard Lake, Eaglet Lake), Spider Island, Wells, Seymour Inlet
BIOGEOCLIMATIC ZONE: BS, CA, CH
HABITAT: Ponds and quiet waters
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in Continental NT, AB, SK, PQ, WA, ME, MI, MN

**Oenothera andina** Nutt. = **Camissonia andina** (Nutt.) Raven

**Oenothera breviflora** Torr. & Gray = **Cammisonia breviflora** (Torr. & Gray) Raven

**Oenothera contorta** Dougl. ex Hook. = **Camissonia contorta** (Dougl.) Kearney in Britt. & Kearney

**Oenothera depressa** Greene = **O. villosa** Thunb.

**Oenothera pallida** Lindl.
Pale Evening-primrose
HERBARIA: CAN, UBC, V, WS
RANGE: South-central BC, e WA and OR to ID, NM and AZ
BC RANGE: Thompson Plateau; Okanagan Highland (Kelowna, Osoyoos, Keremeos, Penticton)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Sand or gravelly soil, dunes
RARE STATUS: R1

**Oenothera strigosa** (Rydb.) Mack. & Bush = **O. villosa** Thunb.

**Oenothera villosa** Thunb.
Yellow Evening Primrose
HERBARIA: UBC, V, WS
REFERENCE: Dietrich and Raven 1976
RANGE: Southern BC and e WA south to CA, east to MN and KS
BC RANGE: Southern BC (Parksville, Victoria, Saltspring Island, New Westminster, Agassiz, Yale, Spences Bridge, Pavilion area, Osoyoos, Nakusp, Tranquille, Nelson, Kingsgate, Monkman Pass)
BIOGEOCLIMATIC ZONE: ES, IH, IF, PP, CF
HABITAT: Meadows, along streambanks, roads, waste places
RARE STATUS: R4

**Ophioglossum vulgatum** L.
Common Adder's-tongue
HERBARIA: UBC, V
RANGE: Circumpolar, south in w North America to MX
BC RANGE: Wells Gray Park (Ray Farm), Saturna Island, Vancouver Island (Sutton Pass, Kathleene Lake near Port Alice)
BIOGEOCLIMATIC ZONE: IH, CF
HABITAT: Meadows, open woods, lake margins
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in NB, PQ, WA, MD, MN, MS, RI, VA, threatened in MI, WI, extirpated in DE

**Opuntia polyacantha** Haw.
Plains Prickly-pear Cactus
HERBARIA: CAN, UBC, V
REFERENCE: Raup 1934
RANGE: BC south to e OR, east to AB, SK, AZ, MO and TX
BC RANGE: Interior Highlands (13 miles east of Keremeos, Spences Bridge, Lytton area, Ashcroft, Cache Creek, Penticton, Kelowna), Gulf Islands (Hornby, Saltspring), Alberta Plateau (Taylor Flat)
BIOGEOCLIMATIC ZONE: CA, IF, PP, CF
HABITAT: Plains and foothills to lower mountains, sandhills, rock crevices
RARE STATUS: R3

**Orobanche californica** Cham. & Schlecht.
California Broomrape
HERBARIA: UBC, UVIC, V, WS
REFERENCE: Heckard 1973
MAP: Heckard 1973
RANGE: WA and adjacent s BC, to s CA
BC RANGE: Southern BC (Victoria, Sidney, Parksville, Campbell River, Bowen Island, Vancouver, Mitlenatch Island, South Pender Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Sandy beaches, parasitic on **Grindelia integrifolia** or **Franseria chamissonis**
RARE STATUS: R3

**Orobanche corymbosa** (Rydb.) Ferris
Flat-topped Broomrape
HERBARIA: DAO, V
RANGE: Southern BC, east of the Cascades in WA and OR, east of the Sierra Nevada in CA, east to MT, WY and UT
BC RANGE: Thompson Plateau, Okanagan Highland (Lumby, Ashnola Range, Osoyoos)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Sagebrush slopes and plains, parasitic on *Artemisia* spp.
RARE STATUS: R1

**Orobanche pinorum** Geyer ex Hook.
Pine Broomrape
HERBARIA: V
RANGE: Southern BC, WA and n ID to nw CA
BC RANGE: Nanaimo Lowland (Cowichan River)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Coniferous woods, parasitic on conifers
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Orthocarpus attenuatus** Gray
Narrow-leaved Owl-clover
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern Vancouver Island to CA west of Cascades
BC RANGE: Southwestern and s-c BC (near Victoria and on some Gulf Islands)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open grassy places
RARE STATUS: R4

**Orthocarpus bracteosus** Benth.
Rosy Owl-clover
HERBARIA: UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern BC to n CA
BC RANGE: Central BC, Nanaimo Lowland, Okanagan Highland (Victoria, Sidney, Osoyoos, Bridesville)
BIOGEOCLIMATIC ZONE: PP, CF
HABITAT: Grassy places at low elevations
RARE STATUS: R1

**Orthocarpus castillejoides** Benth.
Paintbrush Owl-clover
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern Vancouver Island to c CA
BC RANGE: Nanaimo Lowland, Vancouver Island Mountains (Victoria, Alberni, Alberni Basin, Oak Bay)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Saline soils, salt marshes
RARE STATUS: R1

**Orthocarpus faucibarbatus** Gray
Bearded Owl-clover
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern OR to c CA
BC RANGE: Nanaimo Lowland (Near Victoria)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Grassy places
RARE STATUS: R1

**Orthocarpus hispidus** Benth.
Hairy Owl-clover
HERBARIA: UBC, V
REFERENCE: Taylor 1974a
MAP: Hultén 1968, Taylor 1974a
RANGE: South-central BC to CA, east to ID and NV
BC RANGE: Chilcotin, Fort Steele
BIOGEOCLIMATIC ZONE: CA, IF
HABITAT: Moist grassy sites
RARE STATUS: R1

**Orthocarpus imbricatus** Torr. ex S. Wats.
Mountain Owl-clover
HERBARIA: CAN, UBC, V
REFERENCE: Ceska and Ceska, 1980
RANGE: Olympic Mtns. of WA, Cascade Range from c OR to n CA, Klamath region of sw OR and adjacent CA
BC RANGE: Vancouver Island Ranges (Mt. Hooper)
BIOGEOCLIMATIC ZONE: MH
HABITAT: Meadows and open slopes in the mountains
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Orthocarpus pusillus** Benth.
Dwarf Owl-clover
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern BC to CA, west of Cascades
BC RANGE: Southwestern BC (Southern Vancouver Island and adjacent Gulf Islands)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Damp places at low altitudes
RARE STATUS: R4

**Orthocarpus tenuifolius** (Pursh) Benth.
Thin-leaved Owl-clover
HERBARIA: UBC, V, WS
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southeastern BC to OR, east to MT
BC RANGE: Southeastern and s-c BC (South Columbia Valley)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Open places
RARE STATUS: R4

**Oryzopsis canadensis** (Poir.) Torr.
Canada Rice Grass
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Hitchcock 1951
RANGE: BC to Labrador and NF, south to the Great Lake and New England states
BC RANGE: Alberta Plateau (Pouce Coupe)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Woods and thickets
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, MB, NS, NH, NY, endangered in WI, threatened in MI

**Oryzopsis micrantha** (Trin. & Rupr.) Thurb.
Littleseed Rice Grass
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Hubbard 1955
RANGE: BC to AB, MT and ND, south to NV, CA, OK, NM and AZ
BC RANGE: South-central and se BC (Riske Creek, Williams Lake, Alexis Creek, Pavilion Lake, Little Fort, Canal Flats)
BIOGEOCLIMATIC ZONE: CA, IF
HABITAT: Open woods, rocky ridges or slopes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, MB, CA, OK, extirpated in TX

**Osmorhiza occidentalis** (Nutt. ex Torr. & Gray) Torr.
Western Sweetcicely
HERBARIA: CAN, UBC, V
REFERENCE: Constance and Shan 1951
MAP: Constance and Shan 1951
RANGE: Southeastern BC and sw AB, south to s CO, nw WA, c CA and w MT
BC RANGE: Southern BC (Manning Park, Garibaldi Park, Mt. Kobau, Nelson, Kaslo, Rossland, Crawford Bay, Flathead)
BIOGEOCLIMATIC ZONE: ES, IF
HABITAT: Thickets, open slopes, woods in mountains
RARE STATUS: R4

**Oxalis oregana** Nutt. ex Torr. & Gray
Redwood Sorrel
HERBARIA: UBC, V
REFERENCE: Ogilvie *et al.* 1984
RANGE: Coastal BC to CA, west of the Cascades
BC RANGE: Queen Charlotte Mtns. — Queen Charlotte Ranges (Slim Inlet), Vancouver Island (Klanawa River, ne of Pachena Beach)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Moist woods
RARE STATUS: R1

**Oxytropis arctica** R. Br.
Arctic Oxytrope
HERBARIA: GD, UBC, V
REFERENCE: Douglas and Ruyle-Douglas 1978
MAP: Hultén 1968
RANGE: Arctic Asia to NT and nw BC
BC RANGE: AK Hwy. Mile 416, Nevis Creek
BIOGEOCLIMATIC ZONE: BS
HABITAT: Talus slopes, tundra, riverbanks
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, MB, PQ

**Oxytropis campestris** (L.) DC. var **jordalii** (A.E. Porsild) Welsh
Field Locoweed
HERBARIA: UBC, V
MAP: Hultén 1968
RANGE: Northern AK east to NT and south to s AK and nw BC
BC RANGE: Eaglenest Range (Sheeplick Mtn.), northwest of Nation Peak, Liard Hot Springs
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine areas
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Oxytropis huddelsonii** A.E. Porsild
Huddelson's Locoweed
HERBARIA: GD, UBC, V
REFERENCE: Pojar *et al.* 1976
MAP: Hultén 1968
RANGE: AK to nw BC
BC RANGE: Atlin, Gladys Lake, Mt. Edziza, Spatsizi Plateau
BIOGEOCLIMATIC ZONE: AT, ES, BS
HABITAT: Ridgetops, heaths
RARE STATUS: R1

**Oxytropis jordalii** A.E. Porsild = **O. campestris** (L.) DC. var. **jordalii** (A.E. Porsild) Welsh

**Oxytropis maydelliana** Trautv.
Maydell Locoweed
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1974c
MAP: Hultén 1968, Taylor 1974c, Welsh 1967
RANGE: Eastern Asia to e NT and south to nw BC
BC RANGE: AK Hwy. (Summit Lake), Cassiar area (Eddontenajon Lake), Liard Plateau
BIOGEOCLIMATIC ZONE: AT, BS
HABITAT: Tundra, boggy areas
RARE STATUS: R1

**Oxytropis nigrescens** (Pallas) Fischer ex DC.
Blackish Locoweed
HERBARIA: UBC, V
REFERENCE: Taylor 1974c
MAP: Hultén 1968, Taylor 1974c, Welsh 1967
RANGE: Northeastern Asia to w NT and south to n BC
BC RANGE: Mt. Edziza, Gladys Lake, Summit Pass, Nevis Creek, Pine Pass, Good Hope Lake, Cassiar, Carbon Creek
BIOGEOCLIMATIC ZONE: AT
HABITAT: Rocky tundra, unstable alpine ridges
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in YT

**Oxytropis podocarpa** Gray
Stalked-pod Locoweed
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1974
MAP: Taylor 1974
RANGE: NT and n and e BC east to NF and south to CO
BC RANGE: Marble Mtns., Mt. Assiniboine, 9-Mile Creek at Carbon Creek, Paxton Mtn., Bullmoose Mtn., Kotuik Mtn., Snowbird Pass
BIOGEOCLIMATIC ZONE: AT
HABITAT: Rocky alpine areas
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in PQ

**Oxytropis scammaniana** Hultén
Scamman's Locoweed
HERBARIA: V
REFERENCE: Taylor 1974, Welsh 1967
MAP: Taylor 1974
RANGE: Eastern AK and w YT to n BC
BC RANGE: Teslin Lake, AK Hwy. Mile 390, Atlin
BIOGEOCLIMATIC ZONE: AT, SW
HABITAT: Rocky hillsides and heaths
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Oxytropis viscida** Nutt. in Torr. & Gray
Sticky Locoweed
HERBARIA: UBC, V
REFERENCE: Taylor 1974
MAP: Taylor 1974
RANGE: AK to PQ and south to OR and CO
BC RANGE: Alaska Hwy. (Mile 402, Lower Post, Summit Pass), Cassiar, Stewart-Watson Lake Rd., Haines Rd. Mile 68, Kootenay National Park (Paint Pots), Yoho National Park (Johnson's Canyon)
BIOGEOCLIMATIC ZONE: AT, ES, IF
HABITAT: Alpine areas, talus slopes, dry hillsides
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in ON, PQ, WA, CO, MN

**Panicum capillare** L.
Witch Grass
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Frankton and Mulligan 1970
RANGE: BC to PQ, south to most of the US
BC RANGE: Southern BC (Parksville, Sproat Lake, Nanaimo, Agassiz, Spences Bridge, Keremeos, Okanagan, Kootenays, Fernie)
BIOGEOCLIMATIC ZONE: IH, CF
HABITAT: Irrigated or moist areas, along streams, near ponds, disturbed sites
RARE STATUS: R4

**Panicum thermale** Bolander
Hot-springs Panicum
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Hubbard 1955
RANGE: BC to sw AB, south to w MT, CA, WY and AZ
BC RANGE: Skagit Range; Rocky Mtn. Trench (Hope, Fairmont Hot Springs)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Wet saline soil, near hot springs in mountains
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, endangered in CA

**Papaver alboroseum** Hultén
Pale Poppy
HERBARIA: CAN
REFERENCE: Kershaw and Morton 1976, Porsild 1951, Welsh and Rigby 1971
MAP: Hultén 1968
RANGE: Southern AK, sw YT, n BC; Kamchatka
BC RANGE: Skeena Mtns. (Spatsizi Plateau Wilderness Provincial Park)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Sandy gravelly soil, rock outcrops
RARE STATUS: R1

**Papaver macounii** Greene
Macoun's Poppy
HERBARIA: UBC, V
REFERENCE: Kiger 1975
MAP: Hultén 1968, Porsild 1966
RANGE: AK and YT north of 62 N latitude, east to the Mackenzie; Asia
BC RANGE: Rocky Mtn. Foothills; Tahltan Highland; Kawdy Plateau (Mt. Edziza, Beattie Peak, Metah Mtn.)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Sandy gravelly soil, tundra, heathlands
RARE STATUS: R1

**Papaver pygmaeum** Rydb.
Dwarf Poppy
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Kershaw and Morton 1976
MAP: Kiger 1975, Love 1969
RANGE: BC to se AB and nw MT
BC RANGE: Purcell Mtns.; Continental Ranges — Fernie Basin; Border Ranges — Macdonald Range, Clark Range (South Kootenay Pass, Sage Pass, extreme southeastern BC)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Talus slopes of higher mountains
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada, MT

**Parrya nudicaulis** (L.) Boiss.
HERBARIA: CAN, V
RANGE: AK south to nw BC
BC RANGE: Father Mtn., Log Jam Creek (50 mi. east of Teslin Lake)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Alpine meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Pectocarya linearis** (Ruiz-Pavon) DC.
Winged Combseed
HERBARIA: DAO, UBC, V
RANGE: Southern BC to Baja CA, east to ID, sw WY, ne NV, se UT, w AZ, Sonora MX; Chile; Argentina
BC RANGE: South-central BC; Thompson Plateau, Cascade Mountains (Osoyoos, Spences Bridge, Lytton)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry sandy soils at lower elevations
RARE STATUS: R1

**Pedicularis contorta** Benth. in Hook.
Coil-beaked Lousewort
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1974a, Ulke 1934
MAP: Taylor 1974a
RANGE: Southwestern BC and AB, south to n CA, c ID and n and w WY
BC RANGE: Selkirk Mountains, Purcell Mountains, Border Ranges (Clark Range, Continental Ranges, Park Ranges)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Wooded or dry open sites
RARE STATUS: R2

**Pedicularis lanata** Cham. & Schlecht.
Woolly Lousewort
HERBARIA: ALTA, DAO, UBC, V
REFERENCE: Raup 1934
MAP: Calder and Taylor 1968, Hultén 1968, Porsild 1964
RANGE: Throughout AK and YT, east to Greenland and south to BC and w AB; Asia
BC RANGE: Northern BC (Queen Charlotte Islands, AK Hwy. (Summit Pass), Fort Nelson, Smithers, Robb Lake, Redfern Lake, Mt. Selwyn)
BIOGEOCLIMATIC ZONE: AT, MH, SW
HABITAT: Wet to dry tundra and heathlands
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Pedicularis macrodonta** J. Richards. in Franklin
HERBARIA: CAN, DAO, V
REFERENCE: Annas 1973
MAP: Hultén 1968
RANGE: Boreal America; s AK and sw YT, NT, east to Hudson Bay, south to BC, c AB, SK, PQ and ON
BC RANGE: Fort Nelson Lowland, Rocky Mountain Foothills, Alberta Plateau, AK Hwy. (Mile 80, Mile 375, Summit Lake)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Swamps, muskeg, marshes, bogs, wet meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, SK, MB, YT

**Pedicularis oederi** Vahl in Hornem.
Oeder's Lousewort
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Raup 1934, Taylor 1974a
MAP: Calder and Taylor 1968, Hultén 1968, Porsild 1966, Taylor 1974a
RANGE: Circumboreal, south in the Rocky Mountains to WY
BC RANGE: Extreme n BC, Queen Charlotte Islands, c and se BC
BIOGEOCLIMATIC ZONE: AT, MH
HABITAT: Arctic-alpine, tundra and alpine slopes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT

**Pedicularis parviflora** J.E. Smith in Rees
Small-flowered Lousewort
HERBARIA: UBC, V
REFERENCE: Taylor 1974a
MAP: Hultén 1968, Taylor 1974a
RANGE: AK to Hudson Bay, south to c BC
BC RANGE: Central and ne BC (Bowron Lake, Prince George and Queen Charlotte Islands, Pouce Coupe, south to Barkerville, Fort Nelson area)
BIOGEOCLIMATIC ZONE: MH, SS
HABITAT: Muskeg, wet places
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT

**Pedicularis verticilata** L.
Whorled Lousewort
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Calder and Taylor 1968, Hultén 1968, Taylor 1984a
RANGE: AK, YT and n BC; Eurasia
BC RANGE: Queen Charlotte Islands and extreme n BC
BIOGEOCLIMATIC ZONE: AT, CH
HABITAT: Tundra, mountain meadows, rocky slopes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Contintental NT

**Pellaea atropurpurea** (L.) Link
Purple Cliff-brake
HERBARIA: UBC, V
REFERENCE: Rigby and Britton 1970, Taylor 1971
MAP: Rigby and Britton 1970, Taylor 1971
RANGE: Southeastern BC east to PQ and VA and south to AZ
BC RANGE: Chilcotin District Columbia River Valley (Fairmont, Golden, Sicamous)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Limestone cliffs
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada, CO, IA, LA, MA, MN, RI, WV, threatened in MI, SC, endangered in WI

**Penstemon albertinus** Greene
Alberta Penstemon
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southeastern BC and sw AB, south to w MT and c ID
BC RANGE: Southeastern BC (Front Ranges, Fernie Basin)
BIOGEOCLIMATIC ZONE: ES, IF
HABITAT: Gravelly slopes, rocky ridges
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Penstemon attenuatus** Dougl. ex Lindl.
Taper-leaved Penstemon
HERBARIA: UBC, V, WS
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southeastern BC and nw MT, south to n-c WY, c WA, e OR and s ID
BC RANGE: Southeastern Kootenays (Fernie Basin)
BIOGEOCLIMATIC ZONE: ES, IF
HABITAT: Pine woods, dry meadows, open hillsides
RARE STATUS: R4

**Penstemon cusickii** Gray
Cusick's Penstemon
HERBARIA: M.O.E.K.
RANGE: Southeastern BC and w ID to OR
BC RANGE: Selkirk Mountains (Charbonneau Creek)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Sagebrush slopes and plains
RARE STATUS: R1

**Penstemon eriantherus** Pursh
Fuzzy-tongued Penstemon
HERBARIA: DAO, UBC, V, WS
REFERENCE: Taylor 1974a
MAP: Hultén 1968, Taylor 1974a
RANGE: Southeastern BC to ND and NE, south to OR and CO
BC RANGE: Southeastern BC; from south Columbia Valley and eastward (from Rossland)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Dry open places
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB, WA

**Penstemon gormanii** Greene
Gorman's Penstemon
HERBARIA: ALTA, CAN, SFUV, UBC, V
REFERENCE: Porsild and Crum 1961, Taylor 1974a
MAP: Hultén 1968, Taylor 1974a
RANGE: AK, YK, NT and n BC
BC RANGE: Northern BC (Cassiar District, Liard Hot Springs, Atlin, Kechikan River)
BIOGEOCLIMATIC ZONE: SW, BS
HABITAT: Dry mountain slopes and rocky areas
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in Continental NT

**Penstemon gracilis** Nutt.
Slender Penstemon
HERBARIA: ALTA, DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern AB and ne BC, south to NM, east to IA, WI and sw ON
BC RANGE: Alberta Plateau (Peace River District, Elkford, Fort St. John)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Moist prairie grasslands, sandy or rocky soil
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in ON, MN

**Penstemon lyallii** Gray
Lyall's Penstemon
HERBARIA: ALTA, CAN, DAO, UBC, WS, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southwestern AB and se BC, south to MT and e WA and ID
BC RANGE: Southeastern and c BC (Crow's Nest area, Flathead, Elko, Fernie, Alexis Creek, Williams Lake)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Open rocky slopes, shale slides, gravel bars along streams
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, WA

**Penstemon montanus** Greene
Mountain Beardtongue
HERBARIA: UBC, V
RANGE: Park County MT to mtns. of c ID, south through w WY and e ID to c UT, se BC
BC RANGE: Selkirk Mountains (Kootenay area)
BIOGEOCLIMATIC ZONE: IH
HABITAT: Shifting talus slopes, rocky crevices
RARE STATUS: R1

**Penstemon nemorosus** (Dougl.) Trautv.
Woodland Penstemon
HERBARIA: UBC, UVIC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southwestern BC south to n CA, west of the Cascades
BC RANGE: Southern Vancouver Island (Cameron Lake, Mt. Arrowsmith, Maltby Lake, Port Alberni, Koksilah River and Homathko River)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Woods and moist rocky slopes at mid-altitudes
RARE STATUS: R4

**Penstemon nitidus** Dougl. ex Benth. in DC.
Shining Penstemon
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southeastern BC and sw AB, south to ID and w MT, east to ND, WY and MB
BC RANGE: Continental Ranges (Fernie Basin, Front Ranges), Border Ranges (Macdonald Range), Crowsnest Pass
BIOGEOCLIMATIC ZONE: ES
HABITAT: Dry hills, disturbed areas and banks, talus
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in MB

**Penstemon ovatus** Dougl. ex Hook.
Broad-leaved Penstemon
HERBARIA: DAO, UBC, UVIC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern BC to n OR
BC RANGE: Southwestern BC (Lower Fraser Valley and Vancouver Island)
BIOGEOCLIMATIC ZONE: PP, CF
HABITAT: Open woods, open mossy ledges
RARE STATUS: R4

**Penstemon pruinosus** Dougl. ex Lindl.
Chelan Penstemon
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southern BC and n WA, east of the Cascades
BC RANGE: South-central BC (Manning Park, Princeton, Keremeos, Penticton, Vaseaux Lake, Creston, Cranbrook, Fort Steele)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Sage brush, open forest, rocky slopes
RARE STATUS: R4

**Penstemon richardsonii** Dougl. ex Lindl.
Richardson's Penstemon
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Extreme s BC to OR, east of the Cascades
BC RANGE: South-central BC (Keremeos and Osoyoos areas, Vaseaux Lake, Spences Bridge, Penticton, Hedley, Kelowna)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Dry open rocky sites at low elevations
RARE STATUS: R4

**Perideridia gairdneri** (Hook. & Arn.) Mathias
Gairdner's Yampah
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern BC to s CA, east to SK, SD, CO and NM
BC RANGE: Southern BC (Campbell River n to mouth of Dean River, Parksville, Victoria, Sprout Falls, Saltspring Island, Mitlenatch Island, Whytecliff, Point Atkinson, Milner, Flathead, Grand Forks)
BIOGEOCLIMATIC ZONE: IF, PP, CF, CH
HABITAT: Woodlands, dry or wet meadows
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in SK

**Phacelia franklinii** (R. Br.) Gray
Franklin's Phacelia
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Raup 1934
MAP: Hultén 1968, Porsild 1966
RANGE: AK to NT, BC, AB, SK to MB, n-c ON, w MT, n WY and c ID
BC RANGE: Northern and c BC (Tetsa River Valley, AK Hwy. Mile 86, Cameron River, Anahim Lake, Stewart-Watson Lake Road, 100 mi. nw of Fort St. John)

BIOGEOCLIMATIC ZONE: BS, CA
HABITAT: Streambanks, meadows, open slopes, sandy soil
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in ON, WA

**Phacelia lyallii** (Gray) Rydb.
Lyall's Phacelia
HERBARIA: ALTA, CAN, UBC, V
RANGE: Western MT and adjacent AB to se BC, south to ID
BC RANGE: Southeastern BC (Akamina/Kishinena area)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Talus slopes, rock crevices in mountains
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, MT, ID

**Phacelia mollis** J.F. Macbr.
Macbride's Phacelia
HERBARIA: DAO
MAP: Hultén 1968
RANGE: Central eastern AK, YT and adjacent BC
BC RANGE: Northwestern BC
BIOGEOCLIMATIC ZONE: BS
HABITAT: Dry slopes, roadsides, rock outcrops, open woods
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada

**Phlox alyssifolia** Greene
Alyssum-leaved Phlox
HERBARIA: ALTA, CAN, DAO, V
REFERENCE: Clark 1973
RANGE: Southwest MT to s SK, AB and se BC; w ND, SD, n-c CO
BC RANGE: Border Ranges
BIOGEOCLIMATIC ZONE: ES
HABITAT: Dry open places in plains, valleys and foothills
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada

**Phlox caespitosa** Nutt.
Tufted Phlox
HERBARIA: DAO, UBC, UVIC, V
RANGE: Northern ID and adjacent n MT, s BC and e WA, occasionally west to Chelan County WA, also in ne OR
BC RANGE: Vancouver Island, se BC (Nelson, Cranbrook, Waldo, Elko, Kimberley)
BIOGEOCLIMATIC ZONE: MH, ES, IH, IF
HABITAT: Open or partly shaded, dry places
RARE STATUS: R4

**Phlox hoodii** Richards. in Franklin
Hood's Phlox
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Clark 1973, Porsild 1951
MAP: Hultén 1968
RANGE: East of the continental divide from n CO and w NE to AB, MB and SK, north to YT and e AK, west through WY to s ID, n UT, ne CA, e OR, c WA and occasionally to c ID
BC RANGE: Continental Ranges: Front Ranges (Crowsnest)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Dry open places in foothills, valleys and plains
RARE STATUS: R1

**Phlox longifolia** Nutt.
Long-leaved Phlox
HERBARIA: DAO, UBC, V, WS
RANGE: WA and adjacent BC to CA, east to MT, WY, CO and NM
BC RANGE: South-central BC; Okanagan Highland (Kaleden, Oliver, Osoyoos, Keremeos, Hedley, Ashnola)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry, open rocky places
RARE STATUS: R4

**Phlox speciosa** Pursh
Showy Phlox
HERBARIA: DAO, UBC, V, WS, D.L.P.P.S.
RANGE: South-central BC, south to Wasco County OR, irregularly east to ID and MT, sw OR south to the Sierra Nevada of CA
BC RANGE: Thompson Plateau, Okanagan Highland (Penticton area north to Summerland, Olalla)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Sagebrush and **Pinus ponderosa** areas
RARE STATUS: R1

**Phragmites australis** (Cav.) Trin. ex Steud.
Common Reed
HERBARIA: CAN, V
REFERENCE: Braun 1967, Hitchcock 1951, Voss 1972
RANGE: BC to NS, south to MD, NC, IL, LA, CA and FL; MX and the West Indies Chile, Argentina, Eurasia, Africa and Australia
BC RANGE: Nanaimo Lowland; Georgia Lowland; Fraser Lowland; Fraser Basin; Thompson Plateau; Rocky Mtn. Trench (Swan Lake, Texada Island, Ladner, Spences Bridge, Summit Lake, Invermere, Fairmont Hot Springs, Osoyoos, Nelway, Columbia Lake)
BIOGEOCLIMATIC ZONE: CF, IF, PP
HABITAT: Marshes, wet shores, ditches, tamarack bogs
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in Continental NT

**Phyllospadix torreyi** S. Wats.
Torrey's Surf-grass
HERBARIA: V
RANGE: Southwestern BC south to nw MX
BC RANGE: Vancouver Island (Ucluelet, Clayoquot, Triangle Island, Bamfield), Calvert Island
BIOGEOCLIMATIC ZONE: CH
HABITAT: Coastal waters
RARE STATUS: R4

**Physocarpus malvaceus** (Greene) Kuntze
Mallow Ninebark
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Argus and White, 1978, Taylor 1973
MAP: Taylor 1973
RANGE: Southern BC to e OR, east to s AB, MT, WY and UT
BC RANGE: Southeastern BC (Okanagan Valley, Columbia Valley)
BIOGEOCLIMATIC ZONE: IH, IF, PP
HABITAT: Dry situations, rocky hillsides, canyons
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Physostegia parviflora** Nutt. ex Gray
Purple Dragonhead
HERBARIA: SFUV, UBC, V
REFERENCE: Reid 1978
RANGE: Southern BC and WA through the Columbia gorge to near Portland, OR east through ID to s SK, ND, s Continental NT, w MN and w New England
BC RANGE: Scattered in Province (Kaslo, Canoe, Pitt Meadows, Kamloops, Kimberley, Prince George, Crawford Bay, Salmon Arm, Liard Hot Springs, Nakusp)
BIOGEOCLIMATIC ZONE: SS, CA, IF, PP, CH
HABITAT: Shores of streams and lakes, marshes, moist low places
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT

**Pinguicula villosa** L.
Hairy Butterwort
HERBARIA: CAN, DAO, UBC
REFERENCE: Maher *et al.* 1979
MAP: Calder and Taylor 1968, Hultén 1968, 1971
RANGE: Through most of AK and the YT to NT; Eurasia; BC to PQ, Labrador
BC RANGE: Northwestern BC, Queen Charlotte Islands (Port Clements, Tlell)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Peat bogs around creeks and pools
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, SK

**Pinguicula vulgaris** L. subsp. **macroceras** (Link) Calder & Taylor
Common Butterwort
HERBARIA: DAO, UBC, V
MAP: Calder and Taylor 1968, Casper 1962, Hultén 1958, 1968, Porsild 1964
RANGE: Circumboreal, south to sw OR, MT, MI and NY
BC RANGE: West-central BC (Masset, Mt. Arrowsmith, Brooks Peninsula, Dewdney Island, Dupont Island)
BIOGEOCLIMATIC ZONE: MH, CF, CH
HABITAT: Bogs, wet soil in mountains, moist places, beaches, meadows
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in SK, NS, NB, NH, NY, VT, threatened in MI, WI

**Pinus banksiana** Lamb.
Jack Pine
HERBARIA: DAO, UBC
REFERENCE: Fowells 1965, Hosie 1969
MAP: Critchfield and Little 1966, Fowells 1965, Hosie 1969, Hultén 1968, Little 1971
RANGE: BC and NT east to NS, ME, NY and WI
BC RANGE: Liard Plain
BIOGEOCLIMATIC ZONE: BS
HABITAT: Boreal forest, rocky, sandy soil
RARE STATUS: R1

**Pinus flexilis** James
Limber Pine
HERBARIA: UBC, V
REFERENCE: Critchfield and Little 1966, Hosie 1969, Ulke 1934
MAP: Critchfield and Little 1966, Hosie 1969, Little 1971
RANGE: Southeastern BC and sw AB to ND and SD, south to ID, MT, NM and CA
BC RANGE: Selkirk Mountains, Park Ranges, Purcell Mountains (Marysville, Nelson, Golden, Canal Flats, Columbia Valley, Yoho National Park — Mt. Stephen)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Dry, rocky exposed slopes near timber line
RARE STATUS: R2

**Pityrogramma triangularis** (Kaulf.) Maxon
Goldback Fern
HERBARIA: GD, UBC, V
REFERENCE: Taylor 1971
MAP: Taylor 1971
RANGE: Southwestern BC to w ID and south to MX
BC RANGE: Vancouver Island (Nanaimo, Cowichan Lake, Mt. Finlayson, Victoria, Duncan, Cowichan Bay), Gulf Islands (Saturna, North Pender, Mayne, Bowen, Texada, Galiano, Gabriola, lower mainland (Gibsons, Horseshoe Bay, Sumas Mtn.)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Rock crevices
RARE STATUS: R3

**Plagiobothrys figuratus** (Piper) I. Johnst. ex M.E. Peck
Fragrant Popcornflower
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern Vancouver Island to sw OR, west of the Cascades extending through the Columbia Gorge to Klickitat County WA; sw AK
BC RANGE: Nanaimo Lowland (Nanaimo, Wellington, Lost Lake, Hornby Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Moist fields, vernal pools, seepage areas
RARE STATUS: R1

**Plagiobothrys tenellus** (Nutt. ex Hook.) Gray
Slender Popcornflower
HERBARIA: DAO, UBC, V, WS
RANGE: WA and adjacent s BC and w ID, south to Baja CA, NV and UT
BC RANGE: Nanaimo Lowland (Victoria, Saturna Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Dry open places at lower elevations
RARE STATUS: R1

**Plantago bigelovii** Gray
Bigelow's Plantain
HERBARIA: DAO, UBC, V
REFERENCE: Bassett 1973
MAP: Bassett 1973
RANGE: Along the coast from sw BC to Monterey County CA
BC RANGE: Central and sw BC (Kamloops area, s Vancouver Island, Gulf Islands)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Salt marshes along the coast, inland alkaline flats
RARE STATUS: R4

**Plantago canescens** Adams
Woolly Plantain
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Bassett 1967, 1973
MAP: Bassett 1967, 1973, Hultén 1968, Porsild 1964

RANGE: Eastern AK, YT, NT, south to sw AB, e BC and nw MT; Asia
BC RANGE: Border Ranges; Front Ranges (ne of Crowsnest Pass)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Grassy slopes, open soil, riverbanks, roadsides, rock outcrops
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Plantago elongata** Pursh
Slender Plantain
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Bassett 1973
MAP: Bassett 1973
RANGE: BC, AB, SK and MB, south through ND and WA to TX and CA
BC RANGE: Southwestern BC (Victoria, Sidney, Gordon Head, Otter Point, Harrison and Deadman River)
BIOGEOCLIMATIC ZONE: IF, PP, CF
HABITAT: Vernal pools, marshy areas, beaches, alkaline regions
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in MB, MN

**Plantago eriopoda** Torr.
Alkaline Plantain
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Bassett 1973
MAP: Bassett 1967, 1973, Hultén 1968, Porsild 1966
RANGE: From CO and NE north to s Mackenzie and YT, west to c ID and through the Great Basin to CA and the s OR coast, along the lower St. Lawrence River in PQ; n MX
BC RANGE: Southeastern and nw BC (Tagish, Windermere, Kimberley)
BIOGEOCLIMATIC ZONE: BS, IF
HABITAT: Alkaline meadows in plains and valleys, salt marshes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT

**Plantago macrocarpa** Cham. & Schlecht.
Alaska Plantain
HERBARIA: DAO, UBC, V
REFERENCE: Bassett 1973
MAP: Bassett 1973, Calder and Taylor 1968, Hultén 1968
RANGE: Subcoastal from Grays Harbor County WA to the Aleutian Islands; Lincoln County OR
BC RANGE: Western BC (Queen Charlotte Islands, Vancouver Island, along the coast, near Williams Lake, north to Stewart)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Sphagnum bogs, lake shores, cold wet places
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in WA

**Plantago tweedyi** Gray
Tweedy's Plantain
HERBARIA: DAO, V, WTU
REFERENCE: Bassett 1967
MAP: Bassett 1967
RANGE: AB and SK to ID, UT and CO, se BC
BC RANGE: Columbia River Valley (Athalmer)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Non-alkaline meadows in mountains
RARE STATUS: R1

**Platanthera chorisiana** (Cham.) Reichen. f.
Chamisso's Rein Orchid
HERBARIA: DAO, UBC, V
REFERENCE: Correl 1943, Luer 1975, Szczawinski 1975a
MAP: Hultén 1968, Luer 1975, Szczawinski 1975a
RANGE: AK, BC; Japan
BC RANGE: Coastal BC (throughout the Queen Charlotte Islands, Prince Rupert, Kitimat, Brooks Peninsula, Woss Lake, Ucluelet, Tofino)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Swamps near the sea, sphagnum bogs
RARE STATUS: R4
STATUS OUTSIDE BC: Threatened in WA

**Platanthera unalascensis** (Spreng.) F. Kurtz subsp. **maritima** (Rydb.) DeFilipps
Maritime Alaska Rein Orchid
HERBARIA: DAO, UBC, UVIC, V
REFERENCE: Luer 1975
MAP: Luer 1975
RANGE: Islands of Puget Sound, along the Pacific Coast from BC to CA
BC RANGE: Queen Charlotte Islands, Vancouver Island, Nanaimo Lowland, Georgia Lowland (Shushartie Bay, Haida Point near Skidegate, Texada Island, Trial Island, Galiano Island, South Pender Island, Victoria, Courtenay)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Cliffs and dry hills, where moist in early spring
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, WA, threatened in MI

**Plectritis macrocera** Torr. & Gray
Longhorn Plectritis
HERBARIA: DAO, UBC, V
REFERENCE: Taylor and Taylor 1979a
RANGE: Southern BC to s CA, east to MT and UT
BC RANGE: Southern BC (Creston, Vernon, Lytton, Botanie Valley, Kelowna, Summerland, Oliver, Kootenay Lake, Osoyoos)
BIOGEOCLIMATIC ZONE: PP, IF
HABITAT: Stream banks and vernally moist, open places
RARE STATUS: R4

**Pleuropogon refractus** (Gray) Benth. in Vasey
Nodding Semaphore Grass
HERBARIA: DAO, UBC, V
REFERENCE: Hubbard 1955
RANGE: BC south through WA and OR to CA
BC RANGE: Vancouver Island Mtns. — Vancouver Island Ranges; Fraser Lowland; Pacific Ranges (Cowichan Lake, Coquitlam, Callaghan Lake, Garibaldi, Hollyburn)
BIOGEOCLIMATIC ZONE: MH, CF
HABITAT: Bogs, streambanks, swampy meadows, shaded woods
RARE STATUS: R1

**Poa abbreviata** R. Br.
Low Blue Grass
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Pojar *et al.* 1976

Map: Hultén 1958, 1968; Porsild 1964
Range: Circumpolar; westernmost Aleutians, AK, n YT, east through the Canadian Arctic Archipelago
BC Range: Tahltan Highland; Rocky Mtn. Foothills (Mt. Edziza, Mt. Selwyn)
Biogeoclimatic Zone: AT, ES
Habitat: Arctic tundra
Rare Status: R1
Status Outside BC: Rare in Continental NT

**Poa confinis** Vasey
Dune Blue Grass
Herbaria: CAN, DAO, UBC, V
Reference: Hubbard 1955
Range: BC south to CA
BC Range: Coast of Vancouver Island, Queen Charlotte Islands, Squamish
Biogeoclimatic Zone: CF, CH
Habitat: Coastal sand dunes and meadows
Rare Status: R4

**Poa douglasii** Nees subsp. **macrantha** (Vasey) Keck
Seashore Blue Grass
Herbaria: CAN, DAO, UBC, V
Reference: Hubbard 1955
Range: Coastal BC south to n CA
BC Range: Coast of Vancouver Island and the Queen Charlotte Islands
Biogeoclimatic Zone: CH
Habitat: Sand dunes
Rare Status: R4

**Poa howellii** Vasey & Scribn.
Howell's Blue Grass
Herbaria: CAN, UBC, V
Reference: Hubbard 1955
Range: Southwestern BC south to WA and OR and s CA
BC Range: Nanaimo Lowland; Fraser Lowland; Hozameen Range (Goldstream, Saturna Island, Mayne Island, Crescent Beach, Manning Park)
Biogeoclimatic Zone: CF, CH
Habitat: Prairies and lightly wooded areas where moist, rocky banks
Rare Status: R1

**Poa kelloggii** Vasey
Kellogg's Blue Grass
Herbaria: UBC, UVIC
Reference: Jamieson 1979
Range: Coastal c CA to sw OR; coastal BC
BC Range: Vancouver Island (Pachena Bay)
Biogeoclimatic Zone: CH
Habitat: Open areas in forest
Rare Status: R1

**Poa laxiflora** Buckley
Lax-flowered Blue Grass
Herbaria: CAN, DAO, UBC, V
Reference: Hubbard 1955
Map: Hultén 1968
Range: Southern AK, south to the Olympic Peninsula and nw OR
BC Range: Queen Charlotte Mtns. — Queen Charlotte Ranges; Hozameen Range; Fraser Plateau; Thompson Plateau (Kootenay Inlet, Cumshewa Inlet, Kaisun, Manning Park, Festuca Pass, Tunkwa Lake, Langara Island, Mt. Moresby, Tow Hill, Masset Inlet)
Biogeoclimatic Zone: CH
Habitat: Moist woods to rocky open slopes
Rare Status: R1
Status Outside BC: Rare in WA

**Poa macrantha** Vasey = **P. douglasii** Nees subsp. **macrantha** (Vasey) Keck

**Poa marcida** A. Hitchc.
Weak Blue Grass
Herbaria: UBC, V
Reference: Kershaw and Morton 1976
Range: Southwestern BC south to nw OR
BC Range: Vancouver Island and the Lower Mainland (Pachena Bay, 4th Nanaimo Lake, Tsitika River, Stanley Park, Lulu Island)
Biogeoclimatic Zone: MH, CF
Habitat: Moist areas in coastal mountains
Rare Status: R4
Status Outside BC: Rare in WA

**Poa pattersonii** Vasey
Patterson's Blue Grass
Herbaria: CAN, UBC, V
Range: Southern AB to c ID and s-c MT, south to CO, UT and NV
BC Range: Scattered (Kostuik Mtn., Crowsnest Pass)
Biogeoclimatic Zone: AT, ES
Habitat: Alpine meadows, open slopes and talus
Rare Status: R1

**Poa suksdorfii** (Beal) Vasey
Suksdorf's Blue Grass
Herbaria: CAN, GD, V
Reference: Douglas and Ratcliffe 1981
Range: Southcentral BC south to CA
BC Range: Cathedral Park
Biogeoclimatic Zone: AT
Habitat: Alpine sedge meadows
Rare Status: R1
Status Outside BC: Rare in WA

**Poa tracyi** Vasey
Tracy's Blue Grass
Herbaria: V
Reference: Hitchcock 1951, Kershaw and Morton 1976, Porter 1964
Map: Hultén 1968
Range: AK, to OR, CA and CO, east to WY and adjacent ID, UT and NM
BC Range: Liard Plateau (Liard Hot Springs Park)
Biogeoclimatic Zone: MH, IH
Habitat: Open woods
Rare Status: R1

**Polemonium micranthum** Benth. in DC.
Annual Jacob's-ladder
Herbaria: CAN, DAO, GH, NY, UBC, UC, US, V
Reference: Davidson 1950
Map: Davidson 1950
Range: Southern BC and WA to CA, UT and MT, east of the Cascades; Argentina and Chile
BC Range: South-central BC (Spence's Bridge, Lytton, Boston Bar, Penticton, Vernon, Kelowna, Kamloops, Nicola, Merritt, Manning Park)

BIOGEOCLIMATIC ZONE: ES, IF, PP
HABITAT: Open, dry or vernally moist places in plains and foothills
RARE STATUS: R4

**Polygala senega** L.
Seneca-root
HERBARIA: UBC, V
REFERENCE: Gillett 1968, Scoggan 1957
MAP: Gillett 1968
RANGE: AB to PQ and NB, south to SD, AR, TN, GA and NC
BC RANGE: Alberta Plateau (Pouce Coupe, north side of the Peace River)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Open woods, moist prairies, meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in PQ, NB, CT, ME, MA, DE, NJ

**Polygonum austiniae** Greene
Austin's Knotweed
HERBARIA: ALTA, CAN
RANGE: Southern BC, sw AB, south to c OR and ne CA, east across s ID to c MT and WY
BC RANGE: Border Ranges — Clark Range (South Kootenay Pass)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Dry flats or banks, sagebrush plains, **Pinus ponderosa** forest
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, WA

**Polygonum engelmannii** Greene
Engelmann's Knotweed
HERBARIA: ALTA, CAN, DAO, UBC, WS
REFERENCE: Argus and White 1978
RANGE: Southeastern BC and sw AB, south to ID, WY and CO
BC RANGE: Continental Ranges — Park Ranges (Southeast Kootenays, Field)
BIOGEOCLIMATIC ZONE: ES, IF
HABITAT: Dry to moist sandy soil in sagebrush desert to lower mountains
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada

**Polygonum erectum** L.
Erect Knotweed
HERBARIA: CAN, DAO, UBC, UVIC, V
RANGE: AK, YT, BC, AB, SK to NF and NB, south to ID, CO, MN, MO and ne US, KS, TN, GA
BC RANGE: Nahwittf Lowland; Nanaimo Lowland; Fraser Plateau — Marble Range; Thompson Plateau (Port McNeill, Victoria, Ballfngall Islets, Clinton, Nicola)
BIOGEOCLIMATIC ZONE: ES, IF, PP, CF, CH
HABITAT: Dry semi-waste ground, roadsides
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in ON

**Polygonum kelloggii** Greene
Kellogg's Knotweed
HERBARIA: CAN, UBC, V
RANGE: BC and sw AB, south to n CA, MT, WY, CO and AZ
BC RANGE: Pacific Ranges, Hozameen Range; Thompson Plateau; Selkirk Mtns. (Lytton, Nelson, Mt. Kobau, Whipsaw Creek)
BIOGEOCLIMATIC ZONE: ES, IH
HABITAT: Meadows and vernal pools to dry subalpine slopes
RARE STATUS: R1

**Polygonum majus** (Meisn.) Piper in Piper & Beattie
Wiry Knotweed
HERBARIA: UBC, V, WS
RANGE: East of the Cascades from BC and n WA to n CA, east to Id and w MT
BC RANGE: Clear Range; Thompson Plateau; Okanagan Highland; Purcell Mtns.; Monashee Mtns.; Okanagan Range (Manning Park, Lytton, Spences Bridge, Osoyoos, Kamloops, Cascade, Marysville)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry gravelly soil, sagebrush desert to mountains
RARE STATUS: R1

**Polygonum nuttallii** Small
Nuttall's Knotweed
HERBARIA: CAN, DAO, UBC, V, WS
RANGE: West of the Cascades from BC to nw OR
BC RANGE: Western BC (Cowichan Lake, Strathcona Provincial Park, Salvus, Kimsquit, Mt. Waddington, Harrison Lake, North Vancouver, Hope, Manning Park)
BIOGEOCLIMATIC ZONE: MH, ES, CH
HABITAT: Dry prairies, open sites in lower mountains
RARE STATUS: R4

**Polygonum paronychia** Cham. & Schlecht.
Beach Knotweed
HERBARIA: UBC, UVIC, V
RANGE: Southwestern BC south to CA
BC RANGE: Southwestern BC (Victoria, Sooke, Comox, Long Beach, Saanichton, Trial Island, Lighthouse Park)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal sand dunes and beaches
RARE STATUS: R4

**Polygonum ramosissimum** A. Michx.
Yellow-flowered Knotweed
HERBARIA: UBC, V
RANGE: AK, YT, s Canada from BC to NS, south to e WA, OR CA and ne US
BC RANGE: Thompson Plateau, Shuswap Highland (Cache Creek, Kamloops, Armstrong)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Moist to dry soil, wasteland, shores
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in NB, NH

**Polypodium amorphum** Suksd.
Pacific Polypody
HERBARIA: UBC, UC, V, WTU
REFERENCE: Lang 1971
MAP: Taylor 1970
RANGE: Central BC south to n CA and AZ
BC RANGE: Vancouver Island (Forbidden Plateau, Gold River, Tahsis Peak), Coast Mountains (Cheekeye, Garibaldi, Mt. Seymour, Hazelton), Fraser Canyon (Hells Gate, Yale, Stein River)
BIOGEOCLIMATIC ZONE: MH, CF, CH
HABITAT: Rocks and rock crevices
RARE STATUS: R3

**Polypodium montense** F.A. Lang = **P. amorphum** Suksd.

**Polypodium scouleri** Hook. & Grev.
Leathery Polypody
HERBARIA: UBC, V
REFERENCE: Lloyd and Lang 1964, Taylor 1971
MAP: Taylor 1971
RANGE: Coastal BC south to s CA
BC RANGE: Queen Charlotte Islands, west coast of Vancouver Island
BIOGEOCLIMATIC ZONE: CH
HABITAT: On trees and rocks near coast
RARE STATUS: R4

**Polypodium virginianum** L.
Virginia Polypody
HERBARIA: UBC, V
REFERENCE: Lang 1971, Lloyd and Lang 1964
MAP: Taylor 1970
RANGE: Eastern Asia; NT south to ne BC and east to GA
BC RANGE: Alberta Plateau (Pouce Coupe, Beaton River, Ft. Nelson)
BIOGEOCLIMATIC ZONE: BS
HABITAT: On rocks and in rock crevices
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, YT, AK

**Polypogon interruptus** HBK.
Ditch Polypogon
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Hubbard 1955
RANGE: BC to CA, east across the s US to LA; MX to South America; Europe
BC RANGE: Nanaimo Lowland (Victoria, Sidney, James Bay)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Moist ground at lower elevations
RARE STATUS: R1

**Polystichum californicum** (D.C. Eat.) Diels
California Sword Fern
HERBARIA: V
REFERENCE: Wagner 1979
MAP: Wagner 1979
RANGE: Southwestern BC south to s CA
BC RANGE: Texada Island
BIOGEOCLIMATIC ZONE: CF
HABITAT: Rocky areas
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Polystichum imbricans** (D.C. Eat.) D.H. Wagner
Imbricate Wood Fern
HERBARIA: UBC, UC, WS, V
REFERENCE: Wagner 1979
MAP: Wagner 1979
RANGE: West-central BC south to s CA
BC RANGE: Powell River, Nanoose Bay, Shawnigan Lake, Kitimat, Cowichan Lake, Victoria, near Yale
BIOGEOCLIMATIC ZONE: CF
HABITAT: Rocky hillsides, woods
RARE STATUS: R1

**Polystichum kruckebergii** W.H. Wagner
Kruckeberg's Sword Fern
HERBARIA: UBC, UC, WTU, V
REFERENCE: Kruckeberg 1982, Kruckeberg 1979, Wagner 1979
MAP: Wagner 1979
RANGE: Central BC and nw WA south to n CA and n UT
BC RANGE: Cassiar Mountains (W. Kwanika Creek), Interior Plateau (Lillooet area, Chilcotin, Coquahalla)
BIOGEOCLIMATIC ZONE: AT, ES, PP, SS
HABITAT: Serpentine soils among rocks, meadows, open areas in forests
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Polystichum lemmonii** Underw.
Lemmon's Sword Fern
HERBARIA: DAO, V
REFERENCE: Cody and Britton 1984
RANGE: Southern BC to OR and CA
BC RANGE: Okanagan Highland (ne of Baldy Mtn.)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Serpentine rock outcrops
RARE STATUS: R1

**Polystichum scopulinum** (D.C. Eat.) Maxon
Rock Sword Fern
HERBARIA: UC, V, WTU
REFERENCE: Taylor 1971, Wagner 1979
MAP: Taylor 1971, Wagner 1979
RANGE: Southwestern BC south to s CA, east to nw WY and se AZ; Gaspe Peninsula
BC RANGE: Tulameen River at Britton Creek
BIOGEOCLIMATIC ZONE: IF
HABITAT: Rock outcrops, serpentine soils
RARE STATUS: R1

**Polystichum setigerum** (K. Presl) K. Presl
HERBARIA: DAO, NY, UC, WS
REFERENCE: Wagner 1979
MAP: Wagner 1979
RANGE: Southern AK to sw BC; Attu Island, AK
BC RANGE: Queen Charlotte Islands (Mt. Moresby, Blackwater Creek, Dawson Inlet), Alice Arm, Port Simpson, Squamish, Strathcona Park, Nootka Sound
BIOGEOCLIMATIC ZONE: CH
HABITAT: Lowland forests
RARE STATUS: R2

**Potamogeton illinoensis** Morong
Illinois Pondweed
HERBARIA: UBC, V
RANGE: Southern BC south to s CA and east to ON and FL
BC RANGE: Scattered in s BC (Tachis River, Creston, Mirror Lake, Okanagan Lake, Christina Lake, Skaha Lake, Sumas Lake, Chilliwack Lake, McLeese Lake)
BIOGEOCLIMATIC ZONE: IF, PP, IH
HABITAT: Lakes and river edges
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in MB, PQ, continental NT, KS, IN, endangered in NC

**Potamogeton oakesianus** Robbins
Oakes' Pondweed
HERBARIA: V
REFERENCE: Ceska and Ceska 1980
RANGE: BC to NF, ME and NJ
BC RANGE: Steelhead (McCoomb's Rd.)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Lake
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in ON

**Potamogeton obtusifolius** Mertens & Koch
Blunt-leaved Pondweed
HERBARIA: CAN, UBC, V
REFERENCE: Haynes 1974
MAP: Haynes 1974, Porsild and Cody 1980
RANGE: NS to ON, south to WI and NJ; BC
BC RANGE: Scattered distribution in Province (Beaver Lake near Victoria, Manning Park, sw of Pouce Coupe, Lumby, Hazelton, Cowichan Lake, lake at 59°50′ and 122°03′, Saltspring Island, 30 mi. west of Prince George)
BIOGEOCLIMATIC ZONE: CF, CH, BS, PP, IF
HABITAT: Open lakes
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, SK, MB, YT, NS, WY, KS, PA

**Potamogeton perfoliatus** L.
Clasping Pondweed
HERBARIA: V
RANGE: Circumpolar, in North America disjunctly distributed in n regions
BC RANGE: Cassiar Mtns. (Swan Lake at Swift Creek)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Lakes
RARE STATUS: R1

**Potamogeton strictifolius** A. Bennett
HERBARIA: UBC, V
RANGE: PQ to NY and west to NT and BC
BC RANGE: Hope, Windermere Lake, Columbia Lake
BIOGEOCLIMATIC ZONE: CH, IF
HABITAT: Lakes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, MB, CT, IL, MA, probably extirpated in OH

**Potentilla biennis** Greene
Biennial Cinquefoil
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1973
MAP: Hultén 1968, Taylor 1973
RANGE: BC to Baja CA, east to SK, ND, SD, CO and AZ
BC RANGE: Interior Highlands (Clinton, Keremeos, Kamloops, Princeton, Tupper, Swan Lake, Mulki Lake)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Open, damp situations, waste places, sandy soil
RARE STATUS: R3

**Potentilla biflora** Willd. ex Schlecht.
Two-flowered Cinquefoil
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1973
MAP: Hultén 1968, Porsild 1966, Taylor 1973
RANGE: NT to n BC; east Asia
BC RANGE: Northern BC (Liard Plateau, Summit Pass, Mt. St. George, Fort Nelson area)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Stony alpine regions, tundra, hillsides
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in Continental NT

**Potentilla elegans** Cham. & Schlecht.
Elegant Cinquefoil
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Kershaw and Morton 1976, Taylor 1973
MAP: Hultén 1968, Taylor 1973
RANGE: AK, YT, NT and n BC; east Asia
BC RANGE: Stikine Ranges; Rocky Mtn. Trench; Alsek Ranges (Mt. McDame near Cassiar, AK Hwy — mile 391, Haines Road area)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Rocky slopes and crevices at high altitudes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Potentilla flabellifolia** Hook. ex Torr. & Gray
Fan-leaved Cinquefoil
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1973
MAP: Taylor 1973
RANGE: Southern BC and sw AB, south to c CA, MT and ID
BC RANGE: Coastal mtns. from Garibaldi south, Lillooet area, Manning Park
BIOGEOCLIMATIC ZONE: AT, MH, ES
HABITAT: Alpine meadows and slopes, talus slopes
RARE STATUS: R4

**Potentilla hippiana** Lehm.
Woolly Cinquefoil
HERBARIA: CAN, DAO, UBC, V, WS
REFERENCE: Taylor 1973, Ulke 1934
MAP: Hultén 1968, Taylor 1973
RANGE: AK, BC to NM and AZ, east to SK, MB, ON, ND, SD and NE
BC RANGE: Central and e BC (Lillooet area, 4 miles west of Kleena Kleene Lodge, Clinton, Quesnel, Cranbrook, Pine Pass, Telegraph Creek, Yoho National Park)
BIOGEOCLIMATIC ZONE: ES, BS, SS, CA, IH, IF, PP
HABITAT: Plains, dry slopes, grassland, pine forest
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in ON, MN, threatened in MI

**Potentilla hookeriana** Lehm.
Hooker's Cinquefoil
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Buttrick 1977, Taylor 1973
MAP: Hultén 1968, 1971; Taylor 1973
RANGE: AK, south to BC, AB and SK; Siberia
BC RANGE: Scattered throughout BC (Atlin Lake, Liard Plateau, Cassiar, Mt. Edziza, Clinton, Ross Lake, Pavilion Lake)
BIOGEOCLIMATIC ZONE: SW, BS, SS, CA, PP
HABITAT: Gravelly places in alpine regions, rocky outcrops
RARE STATUS: R3

**Potentilla hyparctica** Malte
Arctic Cinquefoil
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Buttrick 1977, Taylor 1973
MAP: Hultén 1968, 1971; Porsild 1964, Taylor 1973
RANGE: AK, south to BC, east to Greenland; arctic Eurasia
BC RANGE: Scattered throughout BC (Teresa Island, Summit Pass, Mt. Robson Park, Wells Gray Park)
BIOGEOCLIMATIC ZONE: AT, MH, ES, SW
HABITAT: Alpine meadows and screes, tundra, coastal beaches
RARE STATUS: R3

**Potentilla multifida** L.
Staghorn Cinquefoil
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Maher *et al.* 1979, Taylor 1973
MAP: Hultén 1968, Porsild 1966, Taylor 1973
RANGE: AK, YT, NT, BC to n SK, east to PQ; Eurasia and e Arctic
BC RANGE: Fraser Plateau (Chezacut area, Tweedsmuir Park)
BIOGEOCLIMATIC ZONE: CA
HABITAT: Dry situations in open ground, rock crevices
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, SK, PQ

**Potentilla ovina** J.M. Macoun
Sheep Cinquefoil
HERBARIA: UBC, V
REFERENCE: Taylor 1973
MAP: Taylor 1973
RANGE: Southeastern BC to n CA, east to SK, ID, MT, WY, UT, CO and NM
BC RANGE: Rocky Mtn. Trench; Border Ranges — Flathead Basin (Sheep Mtn., Flathead)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Damp ground in high montane regions, open ridges
RARE STATUS: R1

**Potentilla paradoxa** Nutt. ex Torr. & Gray
Bushy Cinquefoil
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1973
MAP: Taylor 1973
RANGE: Southern BC to ON, south to WA, ID, NM, MO, KS, OH, PA and w NY; east Asia
BC RANGE: Thompson and Okanagan Highlands (Spences Bridge, Osoyoos)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Damp places, meadows, streambanks
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, ON, NY, PA, threatened in OH

**Potentilla quinquefolia** Rydb.
Five-leaved Cinquefoil
HERBARIA: DAO, UBC, V
REFERENCE: Maher *et al.* 1979, Porsild and Crum 1961, Taylor 1973
MAP: Taylor 1973
RANGE: YT, BC to c SK and MB, south in the Rocky Mtns. to MT, OR, CO and UT
BC RANGE: Scattered in Interior mtns. (Liard Hot Springs, Cassiar)
BIOGEOCLIMATIC ZONE: BS, SW
HABITAT: Gravelly soil in high montane regions
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in SK

**Potentilla rivalis** Nutt. in Torr. & Gray
Brook Cinquefoil
HERBARIA: DAO, UBC, V
REFERENCE: Taylor 1973
MAP: Taylor 1973
RANGE: BC to s CA, east to SK, w ON, MN, IL, MO and NM; n MX
BC RANGE: Okanagan Valley, Kootenay Valley, Columbia Valley
BIOGEOCLIMATIC ZONE: CA, IH, IF, PP, CF
HABITAT: Damp bottom lands, near water
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in ON, endangered in IL

**Prenanthes racemosa** A. Michx.
Purple Rattlesnakeroot
HERBARIA: DAO, V
RANGE: Eastern BC east to NS and south to CO and OH
BC RANGE: Alberta Plateau (Pouce Coupe, Dawson Creek)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in NS, CO, WY, threatened in PA, endangered in ME, MO

**Primula cuneifolia** Ledeb. subsp. **saxifragifolia** (Lehm.) Smith & Forrest
Wedge-leaved Primrose
HERBARIA: GD, UBC, V
REFERENCE: Douglas and Ruyle-Douglas 1978
MAP: Hultén 1968
RANGE: Western BC, AK; Asia
BC RANGE: Boundary Ranges (White Pass, Mt. Rapho, Haines Road), n Vancouver Island (Zeballos Peak)
BIOGEOCLIMATIC ZONE: MH, AT
HABITAT: Wet meadows, tundra
RARE STATUS: R1

**Primula egaliksensis** Wormsk. in Hornem.
Greenland Primrose
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Raup 1934
MAP: Hultén 1971, 1968
RANGE: AK, YT, NT, n BC, e North America; Greenland, w AB, n MB to PQ, NF to Labrador, CO
BC RANGE: Alsek Ranges, Teslin Plateau, Muskwa Ranges, Rocky Mountain Foothills, Hart Ranges, Continental Ranges, Selkirk Mountains, Vancouver Island Mountains, (Haines Rd. mi 75, Liard Hot Springs, Atlin Lake, Mt. Kenny, Graham River, Cariboo Pass)
BIOGEOCLIMATIC ZONE: MH, ES, AT
HABITAT: Wet meadows, along streams, marshes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, endangered in CO

**Primula incana** M.E. Jones
Mealy Primrose
HERBARIA: ALTA, DAO, UBC, V
REFERENCE: Ulke 1934
MAP: Hultén 1968
RANGE: Rocky Mountains from CO and UT to AK and n Canada; YT, MB, SK and PQ
BC RANGE: Eastern and n BC (Moberly, Peace River area, Tupper Creek, Boya Lake, Hudson Hope, Leanchoil, Yoho National Park)
BIOGEOCLIMATIC ZONE: ES, BS
HABITAT: Streambanks, moist meadows, ledges
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in YT, Continental NT, ND, threatened in UT

**Primula mistassinica** A. Michx.
Mistassini Primrose
HERBARIA: ALTA, CAN, DAO, SFUV, UBC, V
REFERENCE: Maher *et al.* 1979, Porsild and Crum 1961
MAP: Hultén 1968
RANGE: Central-eastern AK to se YT and NT, east to NF and south to BC and New England
BC RANGE: Continental Ranges, Muskwa Ranges, Thompson Plateau (Liard Hot Springs, Keremeos, Kootenay Park)
BIOGEOCLIMATIC ZONE: ES, BS, PP
HABITAT: Meadows, along streams
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in SK, YT, NS, IL, ME, threatened in NY, WI, possibly extirpated in VT

**Primula stricta** Hornem.
Upright Primrose
HERBARIA: CAN, DAO, UBC, V
MAP: Hultén 1958, 1968, Porsild 1964
RANGE: Northern North America, from AK to NT, BC, w AB, MB to PQ, NF, Labrador, Greenland, Iceland and Europe
BC RANGE: Alsek Ranges (Haines Rd.)
BIOGEOCLIMATIC ZONE: ES, BS
HABITAT: Moist places, saline soil
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, MB

**Psilocarphus elatior** Gray
Tall Woolyheads
HERBARIA: CAN, DAO, UBC, V
RANGE: Southwestern BC east to ID and south to OR
BC RANGE: Southern Vancouver Island
BIOGEOCLIMATIC ZONE: CF
HABITAT: Vernally moist places
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Psilocarphus tenellus** Nutt.
Slender Woolyheads
HERBARIA: CAN, DAO, UBC, V
RANGE: Southwestern BC east to ID and south to n MX
BC RANGE: Southern Vancouver Island (Victoria)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Vernally moist places
RARE STATUS: R1

**Psoralea physodes** Dougl. ex Hook.
California-tea
HERBARIA: CAN, UBC, V
REFERENCE: Szczawinski and Harrison 1973, Taylor 1974
MAP: Taylor 1974
RANGE: Southwestern BC to CA
BC RANGE: Southern Vancouver Island (Shawnigan, Sahtlam, Wolf Mtn., Blackjack Ridge, Albernie), Fraser Lowland (Langley)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Open woods
RARE STATUS: R2

**Puccinellia interior** Sorensen in Hultén
Inland Alkali Grass
HERBARIA: CAN, UBC
MAP: Hultén 1968, Porsild 1966
RANGE: Most of continental AK and YT, widespread in North America; Europe
BC RANGE: Boundary Ranges; Tagish Highland (Bennett and vicinity)
BIOGEOCLIMATIC ZONE: ES, BS
HABITAT: Wet places, ponds, streambanks, sloughs, roadsides
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, YT

**Puccinellia lemmonii** (Vasey) Scribn.
Lemmon's Alkali Grass
HERBARIA: CAN, UBC, V
RANGE: Southwestern BC, to s SK, south to se WA, e OR, ne CA, w NV, w WY and UT
BC RANGE: Nanaimo Lowland (Victoria, Sidney, Oak Bay, Saltspring Island)
BIOGEOCLIMATIC ZONE: CH, CF
HABITAT: Moist alkaline places, sagebrush desert
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in SK, CA

**Pyrola dentata** J.E. Smith in Rees
Nootka Pyrola
HERBARIA: UBC, V
REFERENCE: Szczawinski 1975b
MAP: Szczawinski 1975b
RANGE: BC south to Sierran CA, east to ID, MT and WY
BC RANGE: Vancouver Island (Milne's Landing Station, Nootka, Esquimalt Nanoose, Cowichan, Nanaimo, Alberni) and the mainland south from Lytton
BIOGEOCLIMATIC ZONE: IF, CF, CH
HABITAT: Coniferous woods, dry slopes
RARE STATUS: R3

**Pyrola elliptica** Nutt.
Waxflower Pyrola
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Szczawinski 1975b
MAP: Szczawinski 1975b
RANGE: BC and AB east to NS and ne US, south to w MT, ID, NM, SD, OH, NV and PA; Japan
BC RANGE: Scattered throughout BC (Vancouver, Haney, Macalister, Quesnel, Dawson Creek)
BIOGEOCLIMATIC ZONE: SS, CA, IF, CH
HABITAT: Moist woods
RARE STATUS: R3

**Pyrola grandiflora** Radius
Arctic Pyrola
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Buttrick 1977, Porsild and Crum 1961, Szczawinski 1975b
MAP: Hultén 1958, Porsild 1964, Szczawinski 1975b
RANGE: Circumpolar; AK, YT and NT south to n BC, AB, SK, MB, n ON, PQ, NF and Labrador; Greenland, Iceland, Eurasia
BC RANGE: Northern BC (Atlin, Liard Hot Springs, Telegraph Creek, Dawson Creek, Dease Lake)
BIOGEOCLIMATIC ZONE: AT, SW, BS
HABITAT: Dry places on tundra and in mountains
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in SK

**Ranunculus alismifolius** Geyer ex Benth.
Water-plantain Buttercup
HERBARIA: CAN, DAO, V
RANGE: Southwestern BC, w US
BC RANGE: Nanaimo Lowland (Victoria area); southern Okanagan Range of Cascade Mountains (Paul Creek)
BIOGEOCLIMATIC ZONE: CF, ES
HABITAT: Mudflats to alpine meadows
RARE STATUS: R1

**Ranunculus californicus** Benth.
California Buttercup
HERBARIA: V
RANGE: Southwestern BC south to CA
BC RANGE: Nanaimo Lowland (Trial Island, Alpha Islet, Chatham Island)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Grassy coastal bluffs
RARE STATUS: R1

**Ranunculus cardiophyllus** Hook.
Heart-leaved Buttercup
HERBARIA: V
RANGE: BC to AB and SK; south to ne WA, sporadically farther south
BC RANGE: Fort Nelson Lowland (Dawson Creek)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Meadows, lowland to mountains
RARE STATUS: R1

**Ranunculus eschscholtzii** Schlecht. var. **suksdorfii** (Gray) Benson = **R. eximus** Greene

**Ranunculus eximus** Greene
Subalpine Buttercup
HERBARIA: UBC, V
RANGE: Southeastern BC and sw AB
BC RANGE: Park Ranges (Yoho Park, Burgess Pass), Border Ranges (Akamina and Kishinena Creeks, Wall Lake)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine meadows, rock slides and lake shores
RARE STATUS: R1

**Ranunculus grayi** Britt.
Arctic Buttercup
HERBARIA: UBC, V
RANGE: AK, YT south to BC, AB, MT and CO
BC RANGE: Northwestern to se BC (Mt. Edziza, Relay Mountain, Ilgachuz Mtns., Pine Pass)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Talus slopes and alpine meadows
RARE STATUS: R3

**Ranunculus inamoenus** Greene
Unlovely Buttercup
HERBARIA: CAN, UBC, V
RANGE: Southern BC to AB, south to WA, ID, UT, AZ and CO
BC RANGE: Chilcotin Ranges of Coast Mountains (Relay Mountain area); Nechako Plateau (Angus Lake); Border Ranges of Rocky Mtns. (Flathead, Wall Lake)
BIOGEOCLIMATIC ZONE: ES, CH
HABITAT: Mountain meadows and moist slopes
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in SK

**Ranunculus lobbii** (Hiern) Gray
Lobb's Water-buttercup
HERBARIA: DAO, V
RANGE: Pacific Coast (Vancouver Island), OR, CA
BC RANGE: Nanaimo Lowland (Victoria)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Vernal pools
RARE STATUS: R1

**Ranunculus pedatifidus** J.E. Smith in Rees
Birdfoot Buttercup
HERBARIA: UBC, V
RANGE: Circumpolar, sporadically south to MT, WY, CO, NM and AZ
BC RANGE: Okanagan Range of Cascade Mountains (Lakesview Mountain)
BIOGEOCLIMATIC ZONE: ES, AT
HABITAT: Meadows, arctic or alpine tundra
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in ON, MB

**Ranunculus pygmaeus** Wahl.
Pygmy Buttercup
HERBARIA: UBC
RANGE: AK to Greenland, south to WY and CO
BC RANGE: Western BC (St. Elias Mountains, Cassiar, Ilgachuz Mountains, Traughton Lake; Vancouver Island — Zeballos Peak)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Alpine meadows
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in YT

**Ranunculus rhomboideus** Goldie
Labrador Buttercup
HERBARIA: CAN, DAO, UBC, V
RANGE: BC east to ON, south to NE and MA
BC RANGE: Fort Nelson Lowland (Hudson's Hope, Dawson Creek, Rose Prairie)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Prairie rock outcrops, open woods
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Ranunculus sulphureus** Solander ex Phipps
Sulphur Buttercup
HERBARIA: UBC, V
REFERENCE: Pojar *et al.* 1976

RANGE: AK to Labrador; Eurasia, including Arctic Islands
BC RANGE: Spatsizi Plateau (Maternity Mtn.); Liard Plateau (ca. 59°N 125°W)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Moist tundra
RARE STATUS: R1

**Ranunculus verecundus** B. Rob. in Piper
Modest Buttercup
HERBARIA: UBC, V
RANGE: BC and AB to WA, ID and MT
BC RANGE: Coast Mountains, Border Ranges (Garibaldi, Tenquille Lake, Flathead area)
BIOGEOCLIMATIC ZONE: AT, MH, ES, IH
HABITAT: Wet slopes, sea level to alpine meadows
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Rhamnus alnifolius** L'Her.
Alder-leaved Buckthorn
HERBARIA: CAN, DAO, UBC, V
RANGE: BC to PQ, NF, NB, PE and NS, south to CA, ID, MT, WY, ME and PA
BC RANGE: Southeastern BC (Flathead, Cranbrook, Waldo, Kimberley, Hosmer, Jaffray)
BIOGEOCLIMATIC ZONE: IH, IF
HABITAT: Moist ground, near streams
RARE STATUS: R4

**Rhododendron lapponicum** (L.) Wahl.
Lapland Rhododendron
HERBARIA: ALTA, CAN, DAO, SFUV, UBC, V
REFERENCE: Raup 1934
MAP: Hultén 1958, 1968, Porsild 1964, Szczawinski 1975b
RANGE: AK, YT, NT and BC east to PQ, Labrador, NF and NY; Eurasia
BC RANGE: Northeast and Northern Interior (Summit Pass, Muncho Lake, Cassiar Mountains, Atlin, Redfern Lake)
BIOGEOCLIMATIC ZONE: AT, ES, SW
HABITAT: Rocky alpine slopes and cliffs, alpine barrens
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB, endangered in ME, WI

**Rhododendron macrophyllum** D. Don ex G. Don
Pacific Rhododendron
HERBARIA: CAN, UBC, V
MAP: Szczawinski 1975b, Taylor and Taylor 1973
RANGE: In the Cascades, from BC through WA to OR and n CA
BC RANGE: Southwestern BC: Skagit Range, Hozameen Range, Nanaimo Lowland (Chilliwack Valley, Hope, Skagit Valley, Manning Park, two localities on Vancouver Island: Rhododendron Lake — Nanaimo, Weeks Lake between Shawnigan and Port Renfrew)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Moist woods in shade, ravines, openings in shady forests
RARE STATUS: R2

**Ribes cognatum** Greene = **R. oxycanthoides** L. subsp. **cognatum** (Greene) Sinnott

**Ribes howellii** Greene
Maple-leaved Currant
HERBARIA: CAN, UBC, V
RANGE: Southwestern BC south to OR and ID
BC RANGE: Southwestern BC (Mt. Cheam, Elk Mtn., Manning Park, Yale, Grouse Mtn., n Vancouver Island (Gibson Rd.)
BIOGEOCLIMATIC ZONE: MH, ES, CH
HABITAT: Alpine meadows, subalpine streambanks
RARE STATUS: R4

**Ribes lobbii** Gray
Gummy Gooseberry
HERBARIA: CAN, UBC, UVIC, V
RANGE: Southwestern BC to nw CA
BC RANGE: Vancouver Island (Esquimalt, Bowser, First Nanaimo Lake, Parksville, Nanoose Hill, Victoria, Duncan, Mt. Arrowsmith, Sooke), Gulf Islands (Saltspring, Denman, Galiano)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Open woods and streambanks
RARE STATUS: R3

**Ribes montigenum** McClat.
Alpine Prickly Gooseberry
HERBARIA: CAN
RANGE: BC to s CA and NM
BC RANGE: South-central BC (Midway)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Alpine slopes, ridges
RARE STATUS: R1

**Ribes oxycanthoides** L. subsp. **cognatum** (Greene) Sinnott
Umatilla Gooseberry
HERBARIA: UBC
RANGE: BC south to OR and east to ID
BC RANGE: South-central BC (Grand Forks, Anarchist Mtn.)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Rocky hillsides
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Romanzoffia tracyi** Jeps.
Tracy's Romanzoffia
HERBARIA: DAO, UBC, V
REFERENCE: Kershaw and Morton 1976
RANGE: Humboldt County CA and north at widely scattered sites to the Olympic Peninsula of WA, sw BC
BC RANGE: Western and s Vancouver Island (Ucluelet, Tofino, Sooke, Long Beach, Victoria)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal bluffs
RARE STATUS: R3

**Rosa arkansana** T.C. Porter in Porter & Coulter
Low Prairie Rose
HERBARIA: UBC, V
REFERENCE: Harms 1974, Taylor and Taylor 1978
MAP: Taylor and Taylor 1978
RANGE: East of the Rocky Mtns. from BC to NY, south to NM, TX, KS, MO, IN and DC
BC RANGE: Northeastern BC from Fort Nelson to Pine Pass and from Chetwynd to the AB border
BIOGEOCLIMATIC ZONE: BS
HABITAT: Prairies, open sandy plains
RARE STATUS: R4

**Rotala ramosior** (L.) Koehne in von Martius
Toothcup Meadow-foam
HERBARIA: DAO, UBC, V, WTU
REFERENCE: Ceska and Ceska 1980
RANGE: BC to MX, east to NH, FL and West Indies
BC RANGE: Okanagan Highland (Osoyoos), Thompson Plateau (Kamloops)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Inundated lake shores
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in ON

**Rubus arcticus** L. subsp. **stellatus** (J.E. Smith) Boivin
Alaska Nagoon Berry
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1973
MAP: Hultén 1968, 1971; Taylor 1973
RANGE: AK to Labrador, BC, SK, MB, PQ, south to MT, Eurasia
BC RANGE: Alsek Ranges; Tanzilla Plateau; Muskwa Ranges; Fort Nelson Lowland (Dease Lake, Haines Road, Liard Hot Springs, Sikanni River), Vancouver Island (Paradise Meadows)
BIOGEOCLIMATIC ZONE: SW, BS, CH, MH
HABITAT: Tundra and cold bogs, heath, woodlands
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in YT

**Rubus lasiococcus** Gray
Dwarf Bramble
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1973
MAP: Taylor 1973
RANGE: Southern BC to nw CA
BC RANGE: Hozameen Range; Okanagan Range; Cascade Mtns.; Nanaimo Lowland (Ladysmith, Mt. Brenton, Hope, Yale, Skagit Valley, Manning Park)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Open montane situations, moist to dry woods
RARE STATUS: R2

**Rubus nivalis** Dougl. ex Hook.
Snow Dewberry
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1973
MAP: Taylor 1973
RANGE: Southern BC to OR, east to ID
BC RANGE: Vancouver Island Mtns. — Vancouver Island Ranges; Fraser Lowland; Monashee Mtns.; Selkirk Mtns. (Strathcona Provincial Park, Nanaimo River Valley, Victoria, Alouette Mtn., Nakusp, Seymour Arm)
BIOGEOCLIMATIC ZONE: MH, ES, IH, CF
HABITAT: Open to shaded montane areas at high altitudes
RARE STATUS: R2

**Rubus stellatus** J.E. Smith = **R. arcticus** L. subsp. **stellatus** (J.E. Smith) Boivin

**Rumex paucifolius** Nutt. in S. Wats.
Mountain Dock
HERBARIA: CAN, UBC, V
RANGE: Cascade Mtns. from s BC to s CA, east to the east side of the Rocky Mtns. from AB to CO
BC RANGE: Scattered through BC (Nakusp, Edgewood, Ootsa Lake, Little Tuya Lake)
BIOGEOCLIMATIC ZONE: MH, ES, SS
HABITAT: Wet meadows, moist mountain slopes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Sagina intermedia** Fenzl in Ledeb.
Snow Pearlwort
HERBARIA: UBC, V
MAP: Hultén 1968, 1971; Porsild 1964
RANGE: Throughout coastal AK and n YT, east to Labrador; Greenland; Eurasia
BC RANGE: Hart Ranges — Misinchinka Ranges (Morfee Mtn.)
BIOGEOCLIMATIC ZONE: SW, BS
HABITAT: Moist rock outcrops, beaches, spits, hillsides
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in YT, PQ

**Sagittaria latifolia** Willd.
Wapato
HERBARIA: UBC, V
RANGE: BC to NS and south to CA, MX and FL; West Indies; n South America
BC RANGE: Scattered in southern part of Province (Williams Lake, Lac La Hache, Windermere Lake, Steveston, South Vancouver, Kamloops, Pitt Meadows, Tranquille, Ladner)
BIOGEOCLIMATIC ZONE: SS, CA, IH, IF, PP, CF, CH
HABITAT: Swamps, ponds and streams
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB

**Salix amygdaloides** Anderss.
Peach-leaved Willow
HERBARIA: UBC, V
REFERENCE: Brayshaw 1976
MAP: Brayshaw 1976
RANGE: Southern BC (east of Cascades) east to NY and PQ, south to AZ, TX and KY
BC RANGE: Okanagan Highland and Thompson Plateau (Spences Bridge, Osoyoos, Penticton), Alberta Plateau
BIOGEOCLIMATIC ZONE: IH, IF, PP
HABITAT: Riverbanks and lakeshores
RARE STATUS: R1

**Salix athabascensis** Raup
Athabasca Willow
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Argus 1973, Brayshaw 1976, Porsild and Crum 1961, Raup 1959
MAP: Argus 1973, Brayshaw 1976
RANGE: AK, YT, NT, BC to MB
BC RANGE: Northeastern BC (Liard Hot Springs, Taylor, Tadyah Lake, Albreda, 100 Mile House, Valemont, Tete Jaune Cache, Morfee Creek)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Wet meadows, muskegs and bogs
RARE STATUS: R3

**Salix geyeriana** Anderss.
Geyer's Willow
HERBARIA: CAN, UBC, V
REFERENCE: Brayshaw 1976
MAP: Brayshaw 1976
RANGE: Southern BC south to CA and CO, east to MT, UT and SD

BC RANGE: Southern BC (Vancouver Island south from Nanaimo, Vancouver, Logan Lake, Cranbrook)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Streamside and lakeshore thickets
RARE STATUS: R2

**Salix gracilis** Anderss. = **S. petiolaris** J.E. Smith

**Salix petiolaris** J.E. Smith
Meadow Willow
HERBARIA: CAN, UBC, V
REFERENCE: Brayshaw 1976
MAP: Brayshaw 1976
RANGE: Northern BC and YT east to NB, NJ and south to MT, CO, VA and OK
BC RANGE: Alberta Plateau (Dawson Creek, Sundance Lake)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Stream-side thickets
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Salix planifolia** Pursh subsp. **pulchra** (Cham.) Argus
Tea-leaved Willow
HERBARIA: CAN, V
REFERENCE: Brayshaw 1976
MAP: Brayshaw 1976
RANGE: Eastern Asia; AK to nw NT and n BC
BC RANGE: Northern BC (White Pass, Haines Road Mile 56, 66, 72, Atlin, Mt. Edziza, Mt. Hazel, AK Hwy. Mile 88, 392)
BIOGEOCLIMATIC ZONE: SW, BS
HABITAT: Wet meadows and tundra, dry rocky slopes
RARE STATUS: R2

**Salix raupii** Argus
Raup's Willow
HERBARIA: CAN, UBC, V
REFERENCE: Argus 1974, Kershaw and Morton 1976
RANGE: Northern BC, NT and AB
BC RANGE: Muskwa Ranges; Skeena Mtns. (MacDonald Creek, Fern Lake, Gladys Lake)
BIOGEOCLIMATIC ZONE: BS
HABITAT: White spruce woods
RARE STATUS: R1

**Salix reticulata** L. subsp. **glabellicarpa** Argus
Netted Willow
HERBARIA: CAN, UBC, V
REFERENCE: Argus 1973, Brayshaw 1976
MAP: Argus 1973, Brayshaw 1976
RANGE: Queen Charlotte Islands, AK
BC RANGE: Graham Island (Masset Inlet, Tan Mtn.), Moresby Island (Lake Takakia, Tasu Mtn., Mosquito Lake)
BIOGEOCLIMATIC ZONE: AT, MH
HABITAT: Alpine tundra, wet seepage areas
RARE STATUS: R1

**Salix serissima** (Bailey) Fern.
Autumn Willow
HERBARIA: CAN, UBC, V
REFERENCE: Brayshaw 1976
MAP: Hultén 1968
RANGE: NT, BC, AB to ON, PQ, Labrador, NF, south to CO, ND, PA and NJ
BC RANGE: Alberta Plateau (Dawson Creek)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Swamps, riverbanks
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in PQ, CT, IN, MA, ME

**Salix sessilifolia** Nutt.
Small-leaved Willow
HERBARIA: CAN, UBC, V
REFERENCE: Brayshaw 1973
MAP: Brayshaw 1973, 1976
RANGE: BC to OR, west of the Cascades
BC RANGE: Southwestern BC (Vancouver Island south from Cowichan Lake, Lower Fraser River Valley east to Hope, Rock Creek)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Sandbars and gravel bars in river
RARE STATUS: R4

**Salix setchelliana** C.R. Ball
Setchell's Willow
HERBARIA: CAN, UBC, V
REFERENCE: Argus 1973
MAP: Argus 1973, Hultén 1968, Porsild 1966
RANGE: AK, YT, BC
BC RANGE: Icefield Ranges; Alsek Ranges (Alsek River)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Gravel bars, sandbars and beaches
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in YT

**Samolus valerandi** L.
Brookweed
HERBARIA: DAO, UBC
RANGE: BC and NB to MX; South America
BC RANGE: Agassiz
BIOGEOCLIMATIC ZONE: CH
HABITAT: Swamps and streams
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in NB, WA

**Sanicula arctopoides** Hook. & Arn.
Snakeroot Sanicle
HERBARIA: CAN, DAO, UBC, UVIC, V
RANGE: Southwestern BC to WA and CA
BC RANGE: Nanaimo Lowland (Victoria, Trial Island, Cadboro Bay, Saxe Point, Esquimalt, Beacon Hill)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Coastal bluffs and headlands
RARE STATUS: R1
STATUS OUTSIDE BC: Threatened in WA

**Sanicula bipinnatifida** Dougl. ex Hook.
Purple Sanicle
HERBARIA: CAN, DAO, UBC, V
RANGE: Southwestern BC and w WA, OR and CA
BC RANGE: Nanaimo Lowland (Victoria north to Nanaimo, Oak Bay)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Open or sparsely wooded slopes and drier meadows
RARE STATUS: R1

**Sarracenia purpurea** L.
Common Pitcher Plant
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Cody and Talbot 1973, Krajina 1968, Taylor 1979
MAP: Cody and Talbot 1973
RANGE: NT, n BC east to Labrador and NF, south to the Great Lake states and e US
BC RANGE: Fort Nelson Lowland (Fort Nelson area)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Peat bogs
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, Continental NT, IL, endangered in GA, SC, threatened in MI, LA

**Satureja douglasii** (Benth.) Briq. in Engler & Prantl
Yerba Buena
HERBARIA: UBC, UVIC, V
MAP: Hultén 1968
RANGE: Southern BC south to s CA and east to n ID
BC RANGE: Southern BC (Ainsworth, Lasqueti Island, Gulf Islands, Nanaimo, Cowichan Lake, Kaslo, Sidney, Nanoose, Armstrong, Crawford Bay, Victoria)
BIOGEOCLIMATIC ZONE: IH, CF
HABITAT: Coniferous woods
RARE STATUS: R4

**Saussurea americana** D.C. Eat.
American Saussurea
HERBARIA: CAN, UBC, V
REFERENCE: Douglas and Ruyle-Douglas 1978
RANGE: Southern AK south to n ID and ne OR
BC RANGE: Scattered; Selkirk Mountains (Crutch Creek), Haines Hwy. (Mile 47), Queen Charlotte Islands (Tasu Mtn.), Lower Mt. Hooper, mtn. west of Green Mtn., Port Alberni area)
BIOGEOCLIMATIC ZONE: MH, SW, BS
HABITAT: Open forests
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, YT, CA

**Saussurea angustifolia** (Willd.) DC. var. **yukonensis** A.E. Porsild
HERBARIA: V (photo)
RANGE: AK and w NT south to nw BC
BC RANGE: Atlin
BIOGEOCLIMATIC ZONE: AT
HABITAT: Tundra
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Saussurea densa** (Hook.) Rydb. = **S. nuda** Ledeb. var. **densa** (Hook.) Hultén

**Saussurea nuda** Ledebour var. **densa** (Hook.) Hultén
Dwarf Saw-wort
HERBARIA: UBC, V
RANGE: Eastern Asia; AK south to s BC
BC RANGE: Yoho Park, Kootenay Park (Ball Pass, Mt. Assiniboine, Kicking Horse Lake), Flathead River
BIOGEOCLIMATIC ZONE: ES, IF
HABITAT: Rock crevices, alpine meadows
RARE STATUS: R4

**Saussurea viscida** Hultén var. **yukonensis** (A.E. Porsild) Hultén = **S. angustifolia** (Willd.) DC. var. **yukonensis** A.E. Porsild

**Saxifraga flagellaris** Sternb. & Willd. in Sternb.
Stoloniferous Saxifrage
HERBARIA: DAO, UBC
RANGE: Circumboreal, south in w North America to BC and CO
BC RANGE: Northern to w-c BC (Itcha Mtns., Nevis Creek, Mt. Edziza, Sheep Lick Mtn., Cullivan Creek, Summit Pass, Good Hope Lake)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Open tundra, rock scree
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB

**Saxifraga hieracifolia** Waldst. & Kit.
Hawkweed-leaved saxifrage
HERBARIA: V
RANGE: Circumboreal, south in w North America to n BC
BC RANGE: Liard Plateau (59° 45′N, 125° 30′W)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Wet tundra, solifluction soil
RARE STATUS: R1

**Saxifraga hirculus** L.
Yellow Marsh Saxifrage
HERBARIA: V
RANGE: Circumboreal, south in w North America to n BC, Rocky Mountains of CO and UT
BC RANGE: Maklin Plateau of Stikine Plateau (Ketchum Lake, Level Mtn.), Liard Plateau (59° 45′N 125° 30′W)
BIOGEOCLIMATIC ZONE: SW
HABITAT: Bogs and wet meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in MB

**Saxifraga reflexa** Hook.
Yukon Saxifrage
HERBARIA: DAO, UBC, V
RANGE: AK, n YT, w NT
BC RANGE: Northwestern BC (Mile 81, Haines Road, Cassiar, Atlin Lake)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Dry, rocky ground
RARE STATUS: R3

**Saxifraga serpyllifolia** Pursh
Thyme-leaved Saxifrage
HERBARIA: UBC, V
REFERENCE: Pojar *et al.* 1976
RANGE: Asia, AK, YT, n BC
BC RANGE: Tahltan Highland (Mt. Edziza); Teslin Plateau (Gladys Lake)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Alpine or arctic tundra, rock outcrops, solifluction soil
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT

**Saxifraga taylori** Calder & Savile
Taylor's Saxifrage
HERBARIA: DAO, UBC, V
MAP: Calder and Taylor 1968

RANGE: Mountains of Queen Charlotte Islands and Vancouver Island
BC RANGE: Queen Charlotte Mountains, Vancouver Island Mountains (Brook Peninsula, Snowsaddle Mtn., Zeballos Peak, Merry Widow Mtn.)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Alpine and subalpine cliffs and slopes
RARE STATUS: R4
NOTE: Endemic to BC

**Schizachyrium scoparium** (Michx.) Nash in Small
Little Bluestem Beard Grass
HERBARIA: DAO, UBC, V
RANGE: Southeastern BC to PQ, south to ID, MT, UT and AZ, east to most of the US; MX
BC RANGE: Rocky Mtn. Trench (Bull River, Fairmont Hot Springs)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Prairies and foothills
RARE STATUS: R1

**Scirpus cernuus** Vahl
Low Club-rush
HERBARIA: UBC, V
REFERENCE: Taylor 1983
MAP: Calder and Taylor 1968, Taylor 1983
RANGE: Southwestern BC to n MX; South America; Europe; Africa, Australia, New Zealand
BC RANGE: Queen Charlotte Islands (Port Clements, Juskatla), Vancouver Island (Parksville, Point-no-Point, Qualicum River, Nanaimo, Tofino, Brooks Peninsula, Alberni), Port Moody
BIOGEOCLIMATIC ZONE: CH
HABITAT: Fresh or brackish marshes
RARE STATUS: R4

**Scirpus fluviatilis** (Torr.) Gray
River Bulrush
HERBARIA: V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Southern BC east to PQ, south to CA, MO and VA
BC RANGE: West coast of Vancouver Island, Vancouver, Osoyoos
BIOGEOCLIMATIC ZONE: CH, PP
HABITAT: Stream and lake margins
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, NB, MA, PA

**Scirpus olneyi** Gray
Olney's Bulrush
HERBARIA: V
REFERENCE: Dawe and White 1982
RANGE: BC and NS, south to FI and MX
BC RANGE: Qualicum Beach, Pemberton (Meager Creek Hot Springs)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Brackish marshes, wet meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada, KS, WA, endangered in NC, threatened in MI

**Scirpus pallidus** (Britt.) Fern.
Pale Bulrush
HERBARIA: V
REFERENCE: Taylor 1983
MAP: Taylor 1983
RANGE: Western North America from BC to OR, UT, NM, TX and MN
BC RANGE: Columbia Valley (Fairmont Hot Springs), Arrow Lake (Needles)
BIOGEOCLIMATIC ZONE: IF
HABITAT: River banks
RARE STATUS: R1

**Scirpus pumilus** Vahl = **Trichophorum pumilum** (Vahl) Schinz & Tell.

**Scrophularia californica** Cham. & Schlecht.
California Figwort
HERBARIA: UBC, UVIC, V
REFERENCE: Taylor 1974a
MAP: Taylor 1974a
RANGE: Southwestern BC to CA and adjacent NV, west of the Cascades
BC RANGE: Southwestern BC (Vancouver Island and Gulf Islands)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Low moist ground, along streams
RARE STATUS: R4

**Scutellaria angustifolia** Pursh
Narrow-leaved Skullcap
HERBARIA: CAN, UBC, V
MAP: Epling 1939
RANGE: Southeastern BC south to s CA and east to w and n ID
BC RANGE: Southeastern BC (Trail)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Open moist or dry, rocky areas in foothills and lowlands
RARE STATUS: R1

**Scutellaria lateriflora** L.
Blue Skullcap
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Epling 1939, Maher *et al.* 1979
RANGE: Southern BC to NF, south to GA and CA and TX
BC RANGE: Southwestern and c BC (Chilliwack Valley, Vancouver Island, New Westminster, Burnaby, Okanagan, Vancouver, Quesnel)
BIOGEOCLIMATIC ZONE: SS, CF, CH, PP
HABITAT: Moist bottom lands
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in SK, CO

**Selaginella oregana** D.C. Eat.
Oregon Selaginella
HERBARIA: UBC
RANGE: Coastal BC south to nw CA
BC RANGE: West coast of Vancouver Island (Power River, Barkley Sound)
BIOGEOCLIMATIC ZONE: CH
HABITAT: On rock outcrops and tree trunks
RARE STATUS: R1

**Senecio atropurpureus** (Ledeb.) Fedch. in Fedch. & Flerov
Dark Purple Ragwort
HERBARIA: GD, V
REFERENCE: Douglas 1982, Douglas and Ruyle-Douglas 1978
MAP: Douglas 1982, Hultén 1968
RANGE: Northern Asia to AK and w NT, south to n BC
BC RANGE: Northern BC (Chilkat Pass area, Blanchard River, Liard Plateau)
BIOGEOCLIMATIC ZONE: BS, AT
HABITAT: Tundra and boggy areas
RARE STATUS: R1

**Senecio congestus** (R. Br.) DC.
Marsh Ragwort
HERBARIA: V
REFERENCE: Douglas 1982, Douglas and Ruyle-Douglas 1978
MAP: Douglas 1982, Hultén 1968
RANGE: Circumboreal, south in w North America to n BC
BC RANGE: Northern BC (White Pass, AK Hwy, Mile 581)
BIOGEOCLIMATIC ZONE: BS
HABITAT: Wet places
RARE STATUS: R1

**Senecio conterminus** Greenm.
Northern Ragwort
HERBARIA: DAO, UBC, V
REFERENCE: Douglas 1982, Packer 1972
MAP: Douglas 1982, Hultén 1968
RANGE: Southwestern AB and se BC to nw MT
BC RANGE: Flathead area (Mile 19 Flathead Road)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Rocky alpine areas
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, MT

**Senecio cymbalarioides** Bueck subsp. **moresbiensis** Calder & Taylor = **S. moresbiensis** (Calder & Taylor) G.W. Douglas & G. Ruyle-Douglas

**Senecio elmeri** Piper
Elmer's Ragwort
HERBARIA: GD, NY, UBC, V
REFERENCE: Douglas 1982, Barkley 1978
MAP: Douglas 1982
RANGE: Southern BC south to c WA
BC RANGE: Scattered distribution in s BC (Chilliwack Valley, Relay Mountain, Cinnabar Basin, Noaxe Lake, Pemberton, Cathedral Lakes, Mt. Matier, Big Dog Mountain)
BIOGEOCLIMATIC ZONE: MH
HABITAT: Gravel and talus subalpine slopes
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in WA

**Senecio foetidus** J.T. Howell var. **foetidus**
Sweet Marsh Ragwort
HERBARIA: CAN, DAO, V
REFERENCE: Douglas 1982
MAP: Douglas 1982
RANGE: Southern BC east to w ID and south to c CA
BC RANGE: South of Rossland (Sheep Creek), Flathead River area
BIOGEOCLIMATIC ZONE: IH, IF
HABITAT: Wet meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Senecio foetidus** J.T. Howell var. **hydrophiloides** (Rydb.) Barkley ex Cronq. in Ferris
Sweet Marsh Ragwort
HERBARIA: DAO, GD, UBC, V
REFERENCE: Barkley 1978, Douglas 1982
MAP: Douglas 1982
RANGE: Southeastern BC and sw AB south to MT and e OR
BC RANGE: West of Yahk, Flathead area, Grand Forks
BIOGEOCLIMATIC ZONE: IH, ES
HABITAT: Wet meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Canada and CO

**Senecio fuscatus** (Jordan & Fourreau) Hayek = **S. tundricola** Tolmie

**Senecio hydrophyllus** Nutt.
Alkali-marsh Ragwort
HERBARIA: CAN
REFERENCE: Barkley 1978, Douglas 1982
MAP: Douglas 1982
RANGE: Southern BC south to c CO and c CA
BC RANGE: Southeastern BC (Kootenay Flats, Salmon River)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Alkali marshes
RARE STATUS: R1

**Senecio macounii** Greene
Macoun's Ragwort
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Barkley 1978, 1980, Douglas 1982
MAP: Barkley 1980, Douglas 1982
RANGE: Southwestern BC south to nw CA
BC RANGE: Southern Vancouver Island (Victoria, Shawnigan Lake, Bald Mountain, Duncan, Durrance Lake)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Grassy open areas, edges of salt marshes
RARE STATUS: R4

**Senecio megacephalus** Nutt.
Large-headed Ragwort
HERBARIA: CAN, DAO, GD, UBC, V
REFERENCE: Barkley 1978, Douglas 1982
MAP: Douglas 1982
RANGE: Southeastern BC and s AB south to w-c MT and ID
BC RANGE: Southeastern BC (Mile 19 Flathead Rd., Crevice Mtn., Pollock Mtn., Grizzly Mtn., King Edward Peak)
BIOGEOCLIMATIC ZONE: ES, IH
HABITAT: Talus and rocky slopes
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB, WY

**Senecio moresbiensis** (Calder & Taylor) G.W. Douglas & G. Ruyle-Douglas
Queen Charlotte Ragwort
HERBARIA: DAO, UBC, V

Reference: Calder and Taylor 1968, Douglas 1982
Map: Calder and Taylor 1968, Douglas 1982
Range: Southeastern AK to sw BC
BC Range: Queen Charlotte Islands (Louscoone Inlet, Mine Mtn., Moresby Mtn., Chaatl Island, Shrimp Creek), nw Vancouver Island (Port Hardy, Brooks Peninsula)
Biogeoclimatic Zone: CF, MH
Habitat: Rocky, boggy slopes
Rare Status: R2
Note: Endemic to BC and s AK

**Senecio newcombei** Greene
Newcomb's Ragwort
Herbaria: DAO, UBC, V
Reference: Barkley 1978, Calder and Taylor 1968, Douglas 1982
Map: Calder and Taylor 1968, Douglas 1982
Range: Queen Charlotte Islands
BC Range: Queen Charlotte Islands (Slate Chuck Mtn., Cumshewa Inlet, Peel, Runnell Sound, Bigsby Inlet, Atlow Bay, Mine Mtn., Shrimp Creek)
Biogeoclimatic Zone: MH, CF
Habitat: Wet hillsides, boggy slopes, alpine meadows
Rare Status: R4
Note: Endemic to BC

**Senecio ogotorukensis** Packer
Northern Groundsel
Herbaria: GD, V
Reference: Douglas 1982, Packer 1972
Map: Douglas 1982
Range: AK to NT and south to nw BC
BC Range: Northwestern BC (Alsek River)
Biogeoclimatic Zone: AT
Habitat: Rocky alpine and subalpine slopes
Rare Status: R1

**Senecio plattensis** Nutt.
Plains Ragwort
Herbaria: V
Reference: Douglas 1982, Douglas and Ruyle-Douglas 1978
Map: Douglas 1982
Range: NT east to MB and south to BC, VA and TX
BC Range: Interior Highlands (Ft. Fraser, Kamloops, Nulki Lake, Prince George, Chilcotin, Ft. Steel, Lac la Hache, Alexis Creek)
Biogeoclimatic Zone: PP, IF
Habitat: Open forests
Rare Status: R2
Status Outside BC: Rare in SK, threatened in PA

**Senecio pseudo-arnica** Less.
Seabeach Ragwort
Herbaria: DAO, UBC, V
Reference: Barkley 1978, Douglas 1982
Map: Calder and Taylor 1968, Douglas 1982
Range: Eastern Asia; AK east to NF and south to BC
BC Range: Queen Charlotte Islands (Rose Spit, between Masset and Tow Hill)
Biogeoclimatic Zone: CH
Habitat: Beaches
Rare Status: R1
Status Outside BC: Rare in NS, NB

**Senecio serra** Hook.
Tall Butterweed Groundsel
Herbaria: V
Reference: Douglas 1982, Douglas and Ruyle-Douglas 1978
Map: Douglas 1982
Range: BC south to CA and UT
BC Range: Pine Pass
Biogeoclimatic Zone: BS
Habitat: Wet meadows
Rare Status: R1

**Senecio sheldonensis** A.E. Porsild
Mount Sheldon Ragwort
Herbaria: UBC, V
Reference: Douglas 1982
Map: Douglas 1982, Hultén 1968, Porsild and Cody 1980
Range: Central YT and sw NT south to n BC
BC Range: Northern BC (Muncho Lake, Teresa Island, Mile 98 Haines Road, Mt. Will, between Tanzilla River and Dease Lake)
Biogeoclimatic Zone: SW
Habitat: Subalpine meadows and bogs
Rare Status: R3
Status Outside BC: Rare in Continental NT

**Senecio tundricola** Tolmie
Northern Groundsel
Herbaria: GD, V
Reference: Douglas 1982, Douglas and Ruyle-Douglas 1978
Map: Douglas 1982
Range: Circumboreal, south in w North America to n BC; MT and WY
BC Range: Northern BC (Chilcat Pass, Swan Lake)
Biogeoclimatic Zone: AT, SW
Habitat: Dry rocky tundra
Rare Status: R1

**Shepherdia argentea** (Pursh) Nutt.
Thorny Buffaloberry
Herbaria: CAN, DAO, UBC, V
Reference: Clark 1973, Raup 1934
Range: BC to MB, south to se OR, e and s CA and MN
BC Range: Alberta Plateau (Hudson's Hope), Interior Highlands
Biogeoclimatic Zone: BS, PP
Habitat: Along watercourses, open woods, thickets
Rare Status: R2

**Sidalcea hendersonii** S. Wats.
Henderson's Checker-mallow
Herbaria: CAN, UBC, UVIC, V
Range: Southwestern BC to OR
BC Range: Vancouver Island (Victoria, Alberni, Campbell River), Fraser Lowland (Pt. Grey, Ladner, Langley), Alta Lake, Gabriola Is.
Biogeoclimatic Zone: CF
Habitat: Meadows, wet places, tidal flats
Rare Status: R2
Status Outside BC: Rare in WA

**Sidalcea oregana** (Nutt.) Gray
Oregon Checker-mallow
Herbaria: UBC

RANGE: South-central BC south to CA and east to WY and UT
BC RANGE: Thompson Plateau (Kamloops)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Sagebrush hillsides
RARE STATUS: R1
STATUS OUTSIDE BC: Threatened in WA

**Silene drummondii** Hook.
Drummond's Campion
HERBARIA: UBC, V
RANGE: BC to SK, south to MT, ID, CO and AZ
BC RANGE: Central BC (Smithers area, Peace River area, Mt. Kobau, White Lake)
BIOGEOCLIMATIC ZONE: ES, CH, BS
HABITAT: Sagebrush slopes to alpine ridges
RARE STATUS: R3

**Silene involucrata** (Cham. & Schlecht.) Bocq.
Arctic Campion
HERBARIA: CAN, DAO, UBC, V
MAP: Hultén 1968, 1971; Porsild 1964
RANGE: Circumpolar; most of AK, YT, NT, east to Labrador, south to BC, w AB, MB to PQ
BC RANGE: Rocky Mtn. Foothills (Nevis Creek)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Alpine meadows, gravel bluffs, tundra
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, MB, ON

**Silene repens** Patrin ex Pers.
Pink Campion
HERBARIA: CAN, UBC, V
MAP: Hultén 1968
RANGE: AK and YT, east to Mackenzie, south to BC, ID, WY and MT; Eurasia
BC RANGE: Eastern and s BC (Eldorado Creek, Nevis Creek, Cathedral Lakes Provincial Park)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Dry grassy slopes, open woods, rock outcrops, meadows, scree slopes
RARE STATUS: R3

**Silene taimyrensis** (Tolmatchev) Bocq.
Taimyr Campion
HERBARIA: UBC, V
REFERENCE: Raup 1934
MAP: Hultén 1968, Porsild 1966
RANGE: Central AK, YT, NT and n BC
BC RANGE: Northern BC (Dease Lake, north of Cassiar junction)
BIOGEOCLIMATIC ZONE: AT, SW
HABITAT: Calcareous clays and gravels, stony barrens in mountains
RARE STATUS: R3

**Silene uralensis** (Rupr.) Bocq. subsp. **attenuata** (Farr) McNeill
Apetalous Campion
HERBARIA: CAN, DAO, UBC, V, WS
REFERENCE: Raup 1934, Ulke 1934
MAP: Hultén 1968, 1971
RANGE: Circumpolar; AK and YT east to the Atlantic, south in the Rocky Mtns. to s BC, MT, ID, UT and CO
BC RANGE: Northern and c BC (Liard Plateau, Gladys Lake, Spatsizi Plateau, Summit Pass, Revelstoke, Yoho Park, Mt. Selwyn, Mt. Kenney, Mt. Assiniboine, Mt. Robson Park)
BIOGEOCLIMATIC ZONE: AT, ES
HABITAT: Alpine tundra, talus slopes, riverbanks, meadows
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in YT

**Sisyrinchium californicum** (Ker-Gawler) Dryand. in W. Ait.
Golden-eyed-grass
HERBARIA: UBC, V
RANGE: Southwestern BC south to CA, west of the Cascade Mtns.
BC RANGE: Southwestern BC (Vancouver Island from Tofino and Comox south to Sooke, the Gulf Islands, Texada Island, Powell River)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Edge of bogs or lakes
RARE STATUS: R4

**Sisyrinchium douglasii** A.G. Dietrich
Douglas' Blue-eyed Grass; Satinflower
HERBARIA: DAO, UBC, UVIC, V
RANGE: Southwestern BC through WA and OR to CA
BC RANGE: Southwestern BC (Saanich, Nootka, Gulf Islands)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Rocky slopes where moist in early spring
RARE STATUS: R4

**Sisyrinchium inflatum** (Suksd.) St. John
Purple Blue-eyed-grass
HERBARIA: CAN, V
RANGE: Southern BC to CA, east of the Cascades, east to ID and n UT
BC RANGE: Shuswap Highland (Adams Lake, Chase)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Grassy areas where moist in spring and dry in summer
RARE STATUS: R1

**Smelowskia calycina** (Stephan) C.A. Meyer in Ledeb.
American Alpine Smelowskia
HERBARIA: DAO, GD, UBC, V
REFERENCE: Drury and Rollins 1952
MAP: Drury and Rollins 1952, Hultén 1968
RANGE: Northern Asia; n AK to AB, south to w WA and CO
BC RANGE: Extreme se BC (Flathead area, Mt. Assiniboine, Mt. Cautly, Akamina and Kishinena Creeks)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Talus slopes
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in Continental NT, YT

**Smelowskia ovalis** M.E. Jones
Short-fruited Smelowskia
HERBARIA: UBC, V
REFERENCE: Drury and Rollins 1952
MAP: Drury and Rollins 1952
RANGE: Southern BC to n CA
BC RANGE: Cascade Mtns. (Mt. Cheam, Mt. McFarlane), Cathedral Prov. Park
BIOGEOCLIMATIC ZONE: MH
HABITAT: Rock crevices on ridgetops
RARE STATUS: R1

**Solanum triflorum** Nutt.
Cut-leaved Nightshade
HERBARIA: CAN, UBC, V, WS
RANGE: Great Plains to the Cascades, WA and OR east of the Cascades to AB, ND, KS, NM, AZ and in CA, PQ to BC
BC RANGE: Southeastern BC (Kootenay area-Michel, Fort Steele, Kimberley)
BIOGEOCLIMATIC ZONE: CA, IF
HABITAT: Along roads, disturbed sites, dry areas
RARE STATUS: R4

**Solidago gigantea** W. Ait. var. **serotina** (Kuntze) Cronq.
Giant Goldenrod
HERBARIA: CAN, V
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: BC and AB to PQ, south to OR, NM and GA
BC RANGE: Trail, Golden
BIOGEOCLIMATIC ZONE: IF
HABITAT: Moist sites
RARE STATUS: R1

**Solidago graminifolia** (L.) Salisb. = **Euthamia graminifolia** (L.) Nutt. ex Cass.

**Solidago nemoralis** W. Ait. var. **longipetiolata** (Mackenz. & Bush) Palmer & Steyermark
Dyersweed Goldenrod
HERBARIA: CAN, DAO, UBC
REFERENCE: Douglas 1984
MAP: Douglas 1984
RANGE: NS west to BC and south to FL and TX
BC RANGE: Eastern BC (Golden, Wapta Falls, Columbia River Valley, Tete Jaune Cache)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Flood plains, riverbanks
RARE STATUS: R2

**Sparganium fluctuans** (Morong) B. Rob.
Water Bur-reed
HERBARIA: UBC, V
REFERENCE: Ceska *et al.* 1976
RANGE: BC to NF and south to NM and PA
BC RANGE: Scattered distribution in Province: Shadow Lake (Garibaldi Park), McCreight Lake (north of Campbell River), Wells Gray Park
BIOGEOCLIMATIC ZONE: IF, CH
HABITAT: Shallow water
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, SK, threatened in PA

**Sparganium glomeratum** Laest. ex Beurl.
HERBARIA: UBC
RANGE: BC, AB, PQ, MN; n Eurasia
BC RANGE: Queen Charlotte Islands (Buck Channel opposite Chaatl Island)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Boggy pools
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, endangered in MN

**Sparganium hyperboreum** Laest. ex Beurl.
Northern Bur-reed
HERBARIA: TRT, UBC, V
REFERENCE: Harms 1973
MAP: Calder and Taylor 1968, Hultén 1968, Porsild and Cody 1980
RANGE: AK to Greenland, south to n BC and NS; Eurasia
BC RANGE: Scattered distribution in Province: Queen Charlotte Islands, AK Hwy. mile 366, north of Cache Creek (Kliqeguh Creek), ne Vancouver Island (Tsitika watershed), Calvert Island (Mt. Buxton), Haines Road mile 75
BIOGEOCLIMATIC ZONE: CH, SW, BS, IF
HABITAT: Cold still water
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB, NS

**Spergularia macrotheca** (Hornem.) Heynh.
Beach Sand Spurrey
HERBARIA: CAN, UBC, V
RANGE: BC south to Baja CA
BC RANGE: Nanaimo Lowland (Victoria, Gordon Head, Saanich, Sidney, Mayne Island, Chain Islands, Trial Island)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Salt marshes, along seashores
RARE STATUS: R2

**Sphaeralcea coccinea** (Nutt.) Rydb.
Scarlet Globe-mallow
HERBARIA: UBC
RANGE: Southern BC to AB and s MN, south to OR, UT, TX and IA
BC RANGE: Southern BC (Kamloops, Kimberley, Windermere)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Dry hillsides
RARE STATUS: R1

**Sphaeralcea munroana** (Dougl. ex Lindl.) Spach ex Gray
Munroe's Globe-mallow
HERBARIA: CAN, V
RANGE: South-central BC and w MT south to CA and UT
BC RANGE: Okanagan Highland (Osoyoos, south of Penticton, Fairview, between Oliver and Osoyoos)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Dry hillsides
RARE STATUS: R1

**Sphenopholis obtusata** (A. Michx.) Scribn.
Prairie Wedge Grass
HERBARIA: DAO, UBC, V
REFERENCE: Erdman 1965, Hubbard 1955
MAP: Erdman 1965
RANGE: BC and YT, south to CA and MX, east to ON, ME and FL; West Indies
BC RANGE: Southern BC (Lillooet, Kamloops, Gray Creek, Fairmont Hotsprings, Jaffray)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Stream and lake margins, moist grassland
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in Canada, CA, CO, ME, NH, threatened in OH

**Spiraea beauverdiana** C.K. Schneid. var. **stevenii** C.K. Schneid. = **S. stevenii** (C.K. Schneid.) Rydb.

**Spiraea densiflora** Nutt. ex Torr. & Gray
Subalpine Spirea
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Taylor 1973
MAP: Taylor 1973
RANGE: Southern BC to CA, east to sw AB, MT, ID and e OR
BC RANGE: Southern BC (Strathcona Provincial Park, Cowichan Lake, mainland north to Pemberton, Revelstoke and Glacier)
BIOGEOCLIMATIC ZONE: MH, IF, IH
HABITAT: Montane areas, moist areas, open rocky slopes
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB, WA

**Spiraea stevenii** (C.K. Schneid.) Rydb.
Steven's Spirea
HERBARIA: CAN, UBC, V
REFERENCE: Taylor 1973, Uttal 1973
MAP: Hultén 1968, Taylor 1973
RANGE: AK, YT, NT, nw BC; Asia and ne Siberia
BC RANGE: Icefield Ranges; Alsek Ranges; Boundary Ranges (Haines Road region)
BIOGEOCLIMATIC ZONE: SW, BS
HABITAT: Muskeg, tundra, heathlands, woods
RARE STATUS: R2

**Sporobolus airoides** (Torr.) Torr.
Hairgrass Dropseed
HERBARIA: UBC, V
RANGE: South-central BC and e WA to SD, south to CA, TX and MX
BC RANGE: Okanagan Highland (Keremeos)
BIOGEOCLIMATIC ZONE: IF
HABITAT: Prairies, deserts and mountain foothills, where moist and somewhat alkaline
RARE STATUS: R1

**Spraguea umbellata** Torr. = **Calyptridium umbellatum** (Torr.) Greene

**Stachys mexicana** Benth.
Mexican Hedge-nettle
HERBARIA: UBC, V
MAP: Hultén 1968
RANGE: Extreme se AK, south to CA, inland to Portland OR
BC RANGE: Western BC (Fraser R. Valley, Cowichan Lake, Alouette Lake, Skeena R. Valley, Ucluelet, Kyuquot, Kitimat)
BIOGEOCLIMATIC ZONE: CF, CH
HABITAT: Moist woods, swamps, near the coast
RARE STATUS: R3

**Stellaria americana** (Porter ex B. Rob.) Standley
American Starwort
HERBARIA: DAO, V
RANGE: Waterton Lakes National Park AB to s-c MT; s-c BC
BC RANGE: Okanagan Range (Ashnola River Valley)
BIOGEOCLIMATIC ZONE: ES
HABITAT: Talus slopes at higher elevations
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB

**Stellaria longipes** Goldie var. **edwardsii** (R. Br.) Gray
Long-stalked Starwort
HERBARIA: ALTA, CAN, DAO, UBC, V
REFERENCE: Buttrick 1977, Raup 1934
MAP: Hultén 1968, Porsild 1963
RANGE: AK to NF, south to CA, AZ, NM, MN and NY; Eurasia
BC RANGE: Alsek Ranges; Tagish Highland; Muskwa Ranges; Stikine Ranges; Hart Ranges — Misinchinka Ranges (Haines Road area, Atlin Lake, Toad River, Peace River area)
BIOGEOCLIMATIC ZONE: AT
HABITAT: Moist soil, streambanks, rocky slopes, mountain meadows
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in NB, MI

**Stellaria nitens** Nutt. in Torr. & Gray
Shining Starwort
HERBARIA: UBC, V, WS
RANGE: BC and sw AB, south to Baja CA, ID, w MT and UT
BC RANGE: Southern and c BC (Vancouver Island from Parksville to Sooke, Saltspring Island, Pemberton, Lower Fraser Valley, Okanagan from Osoyoos to Armstrong, Bridge Lake, Morfee Mtn.)
BIOGEOCLIMATIC ZONE: PP, CF, CH
HABITAT: Gravelly prairies, streambanks to grassy hillsides
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Stellaria obtusa** Engelm.
Blunt-sepaled Starwort
HERBARIA: CAN, DAO, UBC, V
RANGE: Southern AK, BC south through WA and OR to CA, east to AB, CO and UT
BC RANGE: Southern BC (Lillooet, Mt. Robson Provincial Park, Nelson, Crawford Bay)
BIOGEOCLIMATIC ZONE: ES, IH
HABITAT: Damp meadows, along streams
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, CO

**Stellaria umbellata** Turcz. ex Karel. & Kir.
Umbellate Starwort
HERBARIA: CAN, UBC, V
MAP: Hultén 1968
RANGE: Western AB, south to OR, CA, MT and CO; AK; Siberia, Asia
BC RANGE: Hozameen Range; Fraser Basin — Nechako Plain (Hope, Manning Park, Prince George)
BIOGEOCLIMATIC ZONE: ES, CH
HABITAT: Moist soil of montane forest or meadowland, in shade, alpine tundra
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, YT, Continental NT

**Stipa lemmonii** (Vasey) Scribn.
Lemmon's Needle Grass
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Barkworth and Linman 1984, Hubbard 1955
MAP: Barkworth and Linman 1984
RANGE: BC south through WA and OR to CA, east to sw MT, n ID, w NV and AZ

BC RANGE: Queen Charlotte Mtns. — Skidegate Plateau; Nanaimo Lowland; Hozameen Range (Sandspit, Comox, Victoria, Nanoose Bay, Mt. Douglas, Saturna Island, Manning Park)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Valleys, **Pinus ponderosa** forest
RARE STATUS: R2

**Stipa spartea** Trin.
Porcupine Grass
HERBARIA: DAO, UBC, V
REFERENCE: Hubbard 1955
RANGE: BC to ON, south to MT, WY, CO and NM, east through most of the central states to PA
BC RANGE: Throughout e and s-c BC
BIOGEOCLIMATIC ZONE: CA, IF, PP
HABITAT: Along rivers, prairies, grassy benchlands in foothills
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in Continental NT, ON, CO, OK, PA, WY, endangered in OH

**Swertia perennis** L.
Alpine Bog Swertia
HERBARIA: DAO, UBC, V
REFERENCE: Gillett 1963
MAP: Calder and Taylor 1968, Gillett 1963, Hultén 1968
RANGE: AK to CA and NM, east through the Rockies; MT, WY, CO; Eurasia
BC RANGE: Alsek Ranges, Queen Charlotte Lowland, Queen Charlotte Mountains, Fraser Plateau, Haines area, Lac la Hache
BIOGEOCLIMATIC ZONE: MH
HABITAT: Montane to subalpine meadows, streambanks and other moist places
RARE STATUS: R2

**Symphoricarpos oreophilus** Gray
Mountain Snowberry
HERBARIA: UBC
RANGE: Southern BC to MT, south to CA, NM and n MX
BC RANGE: Central southern BC
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Open slopes, dry meadows
RARE STATUS: R4

**Talinum okanoganense** C.S. English
Okanogan Fameflower
HERBARIA: CAN, DAO, UBC, V
REFERENCE: Kershaw and Morton 1976
RANGE: Lower mountains of s BC and WA
BC RANGE: Thompson Plateau (Kamloops area: Savona Mtn., Stump Lake, Mt. Baldy, Tranquille Range)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Rocky exposed slopes and ledges
RARE STATUS: R1
STATUS OUTSIDE BC: Threatened in WA

**Talinum spinescens** Torr.
Spinescent Fameflower
HERBARIA: CAN, UBC
REFERENCE: Kershaw and Morton 1976
RANGE: BC, c WA and n-c OR
BC RANGE: Thompson Plateau (Stump Lake)
BIOGEOCLIMATIC ZONE: PP
HABITAT: Rocky basaltic outcrops and badlands
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Tanacetum bipinnatum** (L.) Sch.-Bip. subsp. **huronense** (Nutt.) Breit.
Western Dune Daisy
HERBARIA: UBC, V
REFERENCE: Calder and Taylor 1968
MAP: Calder and Taylor 1968, Porsild and Cody 1980
RANGE: AK east to NF and south to n CA and NY
BC RANGE: Queen Charlotte Islands (Tlell, Massett, Rose Spit), Vancouver Island (Guise Bay, Long Beach)
BIOGEOCLIMATIC ZONE: CH
HABITAT: Sand dunes
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB, YT, MB, Continental NT, endangered in WI, endangered in ME, MI

**Tanacetum douglasii** DC. = **T. bipinnatum** (L.) Sch.-Bip. subsp. **huronense** (Nutt.) Breit.

**Tetradymia canescens** DC.
Gray Horsebrush
HERBARIA: UBC
REFERENCE: Douglas 1982
MAP: Douglas 1982
RANGE: Southern BC east to MT and south to CA
BC RANGE: Thompson Plateau and Okanagan Highland (Penticton, Summerland, Nicola Lake, Tranquille, Kamloops)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Sagebrush hills
RARE STATUS: R4

**Thalictrum dasycarpum** Fisch. & Ave-Lall. in Fisch. & Meyer
Purple Meadow-rue
HERBARIA: UBC, V
RANGE: BC to PQ, south to WA, AZ, NM, TX, LA and OH
BC RANGE: Between Selkirk and Purcell Mtns. (Crawford Bay, Creston Reclamation area); Rocky Mountain Trench (Golden)
BIOGEOCLIMATIC ZONE: IF, PP
HABITAT: Meadows, swampy grassland
RARE STATUS: R2
STATUS OUTSIDE BC: Rare in AB, PQ, WA

**Thellungiella salsuginea** (Pall.) O. Schultz in Engler
Salt-water Cress
HERBARIA: V
RANGE: YT and NT east to MB and south to BC and CO; Eurasia
BC RANGE: Windermere, Columbia Lake
BIOGEOCLIMATIC ZONE: IF
HABITAT: Dry lakes, grassy areas
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in AB, Continental NT, YT, CO

**Thelypodium laciniatum** (Hook.) Endl. in Walp.
Thick-leaved Thelypody
HERBARIA: UBC, V
RANGE: Southern BC south to se CA and east to sw ID and w NV

BC Range: Thompson Plateau and Okanagan Highland (Ashnola Creek, Penticton, Hedley, Summerland, Osoyoos)
Biogeoclimatic Zone: PP
Habitat: Open, dry, rocky areas
Rare Status: R1

**Thelypodium laciniatum** (Hook.) Endl. var. **millefloru**m (A. Nels.) Payson = **T. millefloru**m A. Nels.

**Thelypodium millefloru**m A. Nels.
Many-flowered Thelypody
Herbaria: UBC
Range: Southern BC south to NV and ID
BC Range: Thompson Plateau (Vaseaux Lake, Olalla)
Biogeoclimatic Zone: PP
Habitat: Dry sagebrush hillsides
Rare Status: R1

**Thelypteris limbosperma** (All.) Fuchs
Mountain Wood Fern
Herbaria: UBC, V
Reference: Taylor 1971
Map: Taylor 1971
Range: Eurasia; coastal AK south to s BC and c WA
BC Range: Coast Mountains (Prince Rupert, Alice Arm), Queen Charlotte Islands, Vancouver Island (Tofino, Brooks Peninsula, Sproat Lake), Williams Lake, Selkirk Mtns.
Biogeoclimatic Zone: MH, CH, CA, ES
Habitat: Rocky woods and subalpine meadows
Rare Status: R3

**Thelypteris nevadensis** (J.G. Baker) Clute ex Manton
Sierra Wood Fern
Herbaria: UBC, V
Reference: Taylor 1971
Map: Taylor 1971
Range: Southwestern BC south to c CA
BC Range: Vancouver Island (Sooke River)
Biogeoclimatic Zone: CF
Habitat: Edges of streams, woods
Rare Status: R1
Status Outside BC: Rare in WA

**Thermopsis montana** Nutt.
Mountain Golden Bean
Herbaria: UBC
Range: Southeastern BC south to NV, UT and CO
BC Range: Ingenika River, Marysville (Bear Creek)
Biogeoclimatic Zone: IF, IH
Habitat: Gravel river benches
Rare Status: R2

**Thermopsis rhombifolia** (Nutt. ex Pursh) Nutt. ex J. Richards.
Prairie Golden Bean
Herbaria: V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southeastern BC and AB to CO and ND
BC Range: Erickson
Biogeoclimatic Zone: IF
Habitat: Sandy grasslands
Rare Status: R1
Status Outside BC: Rare in MB

**Thysanocarpus curvipes** Hook.
Sand Lacepod
Herbaria: UBC, V
Range: Southwestern BC south to CA and east to ID
BC Range: Vancouver Island (Mt. Finlayson, Mt. Douglas, Thetis Lake)
Biogeoclimatic Zone: CF, CH
Habitat: Rocky, grassy slopes
Rare Status: R1

**Tillaea aquatica** L. = **Crassula aquatica** (L.) Schoenl.

**Tillaea erecta** Hook. & Arn. = **Crassula erecta** (Hook. & Arn.) Berger

**Tofieldia coccinea** J. Richards.
Northern False Asphodel
Herbaria: CAN, DAO, UBC, V
Reference: Taylor 1974b
Map: Hultén 1968, Porsild 1964, Taylor 1974b
Range: AK and YT east to Greenland, south to n BC and n AB; Arctic Eurasia
BC Range: Northeastern and c BC (Fort Nelson, Muncho Lake, McBride, Eutsuk Lake)
Biogeoclimatic Zone: ES, BS, SS, CA
Habitat: Tundra and heathland, stony dry places
Rare Status: R3
Status Outside BC: Rare in AB, PQ

**Tonella tenella** (Benth.) Heller
Small-flowered Tonella
Herbaria: GD, UBC, WTU
Reference: Douglas and Ruyle-Douglas 1978
Range: Along the Columbia R. from east end of the gorge to near the coast, south in the Puget trough to central CA
BC Range: Nanaimo Lowland (Saltspring Island)
Biogeoclimatic Zone: CF
Habitat: Steep, dry, rocky slope
Rare Status: R1

**Torreyochloa pallida** (Torr.) Church
Fernald's False Manna
Herbaria: DAO
Reference: Hitchcock 1951, Kershaw and Morton 1976, Maher *et al.* 1979, Voss 1972
Map: Koyama and Kawano 1964
Range: NT, BC, n SK, ON to NF, south to MO, OH, NC and ME
BC Range: Muskwa Ranges, Fraser Basin — Nechako Plain (Peace River area, Vanderhoof)
Biogeoclimatic Zone: BS
Habitat: Pond borders, bogs, marshes, wet hollows
Rare Status: R1
Status Outside BC: Rare in SK, MB, ON, PQ, OH, MO, RI, endangered in GA, MN, threatened in NC

**Townsendia exscapa** (J. Richards.) T.C. Porter
Stemless Townsendia
Herbaria: UBC, UC
Reference: Beaman 1957, Douglas 1984
Map: Beaman 1957, Douglas 1984
Range: Southeastern BC east to MN and south to TX and AZ
BC Range: Southeastern BC (Athalmer)

Biogeoclimatic Zone: IF
Habitat: Meadows
Rare Status: R1
Status Outside BC: Rare in MB

**Townsendia hookeri** Beaman
Hooker's Townsendia
Herbaria: CAN, UBC, V
Reference: Beaman 1957, Douglas 1984
Map: Beaman 1957, Douglas 1984
Range: Northeastern BC south to s CA and c UT
BC Range: Eastern BC (Ft. Mcleod, Marysville, Windermere, between Windermere and Fairmont Hot Springs, Canal Flats, Radium Hot Springs)
Biogeoclimatic Zone: IF, BS
Habitat: Prairies, dry hillsides
Rare Status: R1
Status Outside BC: Rare in SK, YT

**Townsendia parryi** D.C. Eat. in Parry
Parry's Townsendia
Herbaria: DAO, GH, UBC, V
Reference: Beaman 1957, Douglas 1984
Map: Beaman 1957, Douglas 1984
Range: Southeastern BC east to AB and south to OR and CO
BC Range: Southeastern BC (Crowsnest Pass, Pollock, Mt. Turnbull)
Biogeoclimatic Zone: AT, ES
Habitat: Talus slopes
Rare Status: R1

**Toxicodendron diversilobium** (Torr. & Gray) Greene
Poison-oak
Herbaria: UBC, V
Range: West of the Cascades and Sierra Nevada from Puget Sound to MX, inland along the Columbia River in WA
BC Range: Nanaimo Lowland, Georgia Lowland (Victoria, Saanich Arm, Nanaimo, Texada Island, Bowen Island, Howe Sound)
Biogeoclimatic Zone: CF
Habitat: Boulders of streams, thickets, wooded slopes
Rare Status: R1

**Trichophorum pumilum** (Vahl) Schinz & Tell.
Small Deer-grass
Herbaria: CAN, UBC, V
Reference: Taylor 1983
Map: Hultén 1968, Taylor 1983
Range: Circumboreal south in w North America to n BC
BC Range: AK Hwy. (Muncho Lake, Mile 397)
Biogeoclimatic Zone: BS
Habitat: Wet places
Rare Status: R1
Status Outside BC: Rare in SK, YT, PQ

**Trifolium bifidum** Gray
Pinole Clover
Herbaria: CAN, V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southwestern BC south to Baja CA
BC Range: Southern Vancouver Island (Victoria), Savary Island
Biogeoclimatic Zone: CF
Habitat: Grassy places
Rare Status: R1

**Trifolium cyathiferum** Lindl.
Cup Clover
Herbaria: CAN, UBC, V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southern BC south to CA and ID
BC Range: Victoria, Duncan, Alberni, Revelstoke, Rossland
Biogeoclimatic Zone: IH, CF
Habitat: Sandy areas, mossy rock faces
Rare Status: R2

**Trifolium depauperatum** Desvx.
Poverty Clover
Herbaria: CAN, DAO, UBC, V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southwestern BC south to s CA
BC Range: Southern Vancouver Island (Victoria)
Biogeoclimatic Zone: CF
Habitat: Wet places, grassy areas
Rare Status: R1

**Trifolium macraei** Hook. & Arn. in Hook.
Macrae's Clover
Herbaria: CAN, UBC, V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southwestern BC south to Baja CA; Chile
BC Range: Southeastern Vancouver Island (Nanaimo), Gulf Islands (Galiano, Saltspring)
Biogeoclimatic Zone: CF
Habitat: Open grassy places
Rare Status: R1

**Trifolium microcephalum** Pursh
Small-headed Clover
Herbaria: CAN, UBC, V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southern BC south to Baja CA and east to MT and AZ
BC Range: Southern Vancouver Island (Nanoose Hill, Nanaimo, Victoria, Sooke, Saanichton, Cameron Lake, Cowichan Lake), Gulf Islands (Saturna, Thormanby, Savary, Saltspring, Mayne), Okanagan Highland (Lund, Summerland, Naramata, Grand Forks)
Biogeoclimatic Zone: CH, CF, PP
Habitat: Grassy places
Rare Status: R3

**Trifolium microdon** Hook. & Arn. in Hook.
Thimble Clover
Herbaria: CAN, UBC, V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southwestern BC south to CA; South America
BC Range: Southern Vancouver Island (Sooke, Bear Hill, Campbell River, Langford, Victoria, Thetis Lake), Gulf Islands (Saturna), Georgia Lowland (Powell River)

Biogeoclimatic Zone: CF
Habitat: Open sandy places, meadows
Rare Status: R3

**Trifolium oliganthum** Steud.
Few-flowered Clover
Herbaria: UBC, V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southwestern BC south to CA
BC Range: Southern Vancouver Island (Cowichan, Sooke, Mt. Tolmie, Cameron Lake, Nanoose Hill, Parksville), Gulf Islands (Saltspring, Saturna, Savary), Georgia Lowland (Powell River, Egmont, Deeks Creek, West Vancouver)
Biogeoclimatic Zone: CF
Habitat: Open woods, rocky places
Rare Status: R4

**Trifolium tridentatum** Lindl.
Tomcat Clover
Herbaria: CAN, UBC, V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southwestern BC south to CA
BC Range: Southern Vancouver Island (Thetis Lake, Sooke, Victoria, Langford, Cowichan Lake, Sprout Falls, Nanaimo, Comox, Parksville) Gulf Islands (Savary, North Pender, Saturna, Saltspring, Texada, Anniversary, Mitlenatch), Georgia and Fraser Lowlands (Agassiz, West Vancouver, Harrison Mills, Egmont, Lund)
Biogeoclimatic Zone: CF, CH
Habitat: Grassy places
Rare Status: R4

**Trifolium variegatum** Nutt.
White-tipped Clover
Herbaria: CAN, UBC, V
Reference: Taylor 1974c
Map: Taylor 1974c
Range: Southwestern BC south to CA and east to MT and UT
BC Range: Southern Vancouver Island (Sprout Falls, Nanaimo, Nanoose Hill, Cowichan, Victoria, Sooke), Gulf Islands (Saltspring, Galiano, Mitlenatch, Danman, Savary), Georgia and Fraser Lowlands (Chilliwack, Vancouver, Lions Bay, Gibson, Egmont), southern interior (Trail, Lake Okanagan)
Biogeoclimatic Zone: CF, CH, PP
Habitat: Moist places
Rare Status: R4

**Triglochin concinnum** Davy
Graceful Arrow-grass
Herbaria: CAN, DAO, UBC, V
Range: Southwestern BC, south to CA, east to ND, SD WY, CO and AZ
BC Range: Nanaimo Lowland, Queen Charlotte Plateau (Sidney, South Pender Island, Queen Charlotte City, Lina Island, Hanna River)
Biogeoclimatic Zone: CH
Habitat: Dry meadows and marshes
Rare Status: R1

**Trillium ovatum** Pursh f. **hibbersonii** Taylor & Szczawinski
Hibberson's Western White Trillium
Herbaria: DAO, UBC, V
Reference: Mitchell 1970, Taylor 1974b, Taylor and Taylor 1977a
Map: Fukudo 1975, Mitchell 1970
Range: Southwestern BC
BC Range: Vancouver Island (Kyuqyuot, Boat Basin)
Biogeoclimatic Zone: CH
Habitat: Streambanks to open or thick woods, damp woods
Rare Status: R1
Note: Endemic to BC

**Triodanis perfoliata** (L.) Niew. = **Legousia perfoliata** (L.) Britt.

**Triteleia grandiflora** Lindl.
Large-flowered Triteleia
Herbaria: DAO, UBC, V, WS
Range: Southern BC, south to se OR and n CA, east to ID, w MT
BC Range: Dry Interior valleys east of the Coast Mtns. (Spences Bridge, Princeton, Oliver to Enderby, Trail, Fort Steele, Tobacco Plains)
Biogeoclimatic Zone: IF, PP
Habitat: Grassland and sagebrush deserts to pine woodlands
Rare Status: R4

**Triteleia howellii** (S. Wats.) Greene
Howell's Triteleia
Herbaria: DAO, UBC, V
Range: Southwestern BC through WA to OR
BC Range: Nanaimo Lowland; Fraser Lowland; Pacific Ranges (Victoria, Saanich Arm, Thetis Lake, West Vancouver, Caulfeild)
Biogeoclimatic Zone: CF
Habitat: Grassy coastal bluffs
Rare Status: R1

**Triteleia hyacinthina** (Lindl.) Greene
White Triteleia; Fool's-onion
Herbaria: CAN, DAO, UBC, UVIC, V
Reference: Taylor 1974b
Map: Taylor 1974b
Range: Southwestern BC, through WA and OR to c CA, east to NV and ID
BC Range: Southeastern Vancouver Island south from Campbell River, the Gulf Islands, and adjacent mainland south from Powell River and Lund
Biogeoclimatic Zone: CF, CH
Habitat: Open grassy flats to midmontane meadows
Rare Status: R4

**Utricularia gibba** L.
Humped Bladderwort
Herbaria: UBC, V
Reference: Ceska and Bell 1973, Maher *et al.* 1978
Map: Ceska and Bell 1973
Range: CA, through the e states; south to FL and TX, MX, Central America, South America, Africa; also OR, WA, BC; NS, NB to PQ and ON
BC Range: Nanaimo Lowland, Fraser Lowland (Lakes near Victoria, Port Alberni, Vancouver, Teanook Lake)

Biogeoclimatic Zone: CF, CH
Habitat: Shallow water
Rare Status: R2
Status Outside BC: Rare in PQ, NB, NS, IA, endangered in GA, MN, threatened in OH

**Vaccinium globulare** Rydb.
Globe Blueberry
Herbaria: UBC, V
Reference: Szczawinski 1975b
Map: Szczawinski 1975b
Range: Eastern WA and OR, east through ID to MT and WY, se BC and AB
BC Range: Southeast Interior: Continental Ranges (Park Ranges), Purcell Mountains, Border Ranges (Clark Range, Macdonald Range), Selkirk Mountains, Fraser Lowland, Nechako Plateau; (Flathead Valley, Kokanee Park, Kimberley, Yoho Valley)
Biogeoclimatic Zone: ES, IF
Habitat: Coniferous open forests, in mountains at lower elevations
Rare Status: R3

**Vaccinium myrtillus** L.
Low Bilberry
Herbaria: CAN, UBC, V
Reference: Szczawinski 1975b
Map: Szczawinski 1975b
Range: AB to NM, west to BC on east side of Cascades to WA; Eurasia; Greenland
BC Range: Restricted to se Interior; Flathead area, Cranbrook, Nelson, Continental Ranges (Park Ranges, Fernie Basin), Monashee Mountains, Selkirk Mountains, Purcell Mountains
Biogeoclimatic Zone: ES, IH
Habitat: Moist areas at high altitudes
Rare Status: R2
Status Outside BC: Rare in Continental NT

**Valeriana edulis** Nutt. ex Torr. & Gray
Edible Valerian
Herbaria: DAO, US, NY, UBC, V
Reference: Meyer 1951
Map: Meyer 1951
Range: Southern BC, e WA, MT, south to MX, also from MN and IA to ON and OH
BC Range: Alberta Plateau, Okanagan Range, Okanagan Highland (Peace River area, Cathedral Park, Bridesville, Midway)
Biogeoclimatic Zone: ES, IF, BS
Habitat: Moist, saline meadows, open habitats
Rare Status: R2

**Valeriana scouleri** Rydb.
Scouler's Sitka Valerian
Herbaria: CAN, UBC, V
Reference: Hamet-Ahti 1965, Meyer 1951
Map: Meyer 1951
Range: Southern Vancouver Island and adjacent mainland of BC to nw CA, and sw AB
BC Range: Southern BC (Wells Gray Park, Craig, Gibson Pass, Youbou, Manning Park, Mt. Revelstoke National Park, Yale, Chilliwack, Nanaimo, Ucluelet, Sooke)
Biogeoclimatic Zone: CF, CH, IF, ES, CA
Habitat: Moist woods, wet meadows and cliffs
Rare Status: R4

**Valeriana sitchensis** Bong. var. **scouleri** (Rydb.) Piper = **V. scouleri** Rydb.

**Verbena bracteata** Lag. & Rodrig.
Bracted Vervain
Herbaria: CAN, DAO, UBC, V
Range: BC to ME, south to CA, MX and east to s ON and FL
BC Range: Peace River area, s BC (Kamloops, Osoyoos, Kimberley, Spences Bridge, Grand Forks, Savona, Penticton, Westbank, Oliver Newgate, Roosville, Princeton)
Biogeoclimatic Zone: IF, PP
Habitat: Roadsides, disturbed sites
Rare Status: R3
Status Outside BC: Rare in ON

**Verbena hastata** L.
Blue Vervain
Herbaria: DAO, TRT, UBC, V
Range: Southern BC, SK to NB, NS, south to CA, AZ and FL
BC Range: Southern BC (Alberni area, Vancouver, Okanagan Lake, Vernon, Kelowna, Oliver, Cawston)
Biogeoclimatic Zone: IF, PP, CF, CH
Habitat: Ditch banks, moist low ground, alluvial soils
Rare Status: R4
Status Outside BC: Rare in SK, NS

**Veronica catenata** Penn.
Pink Water Speedwell
Herbaria: V, WS
Reference: Taylor 1974a
Map: Hultén 1971, Taylor 1974a
Range: Widespread in the US and s Canada; Europe
BC Range: Nanaimo Lowland, Purcell Mountains (Esquimalt, Cranbrook)
Biogeoclimatic Zone: IF, CF
Habitat: Slowly flowing water, wet shores
Rare Status: R1
Status Outside BC: Rare in AB

**Veronica cusickii** Gray
Cusick's Speedwell
Herbaria: CAN, DAO, UBC, V
Reference: Taylor 1974a
Map: Taylor 1974a
Range: Southern BC and WA, east to ID and MT and OR
BC Range: Thompson Plateau, Okanagan Range, Hozameen Range, (se corner of Manning Park; south side of Quiniscoe Lake)
Biogeoclimatic Zone: AT, ES
Habitat: Rocky soil in open forests, alpine meadows
Rare Status: R1

**Viburnum opulus** L. subsp. **trilobum** (Marsh.) R.T. Clausen
American Bush Cranberry
Herbaria: CAN, DAO, UBC, V
Reference: Hamet-Ahti 1965, Taylor and Taylor 1977a
Map: Hultén 1958
Range: NF to s BC, south to PA, IL, SD, WY, n ID, WA; Eurasia
BC Range: Interior Plateau; Fraser Basin, Thompson Plateau (Wells Gray Park, Quesnel, Shuswap Lake, Armstrong, Matsqui, Prince George)

Biogeoclimatic Zone: CA, IH, IF, CH
Habitat: Moist woods, along brooks
Rare Status: R2

**Viola biflora** L. subsp. **carlottae** Calder & Taylor
Queen Charlotte Twinflower Violet
Herbaria: DAO, UBC, V
Reference: Kershaw and Morton 1976
Map: Calder and Taylor 1968
Range: Western BC (Queen Charlotte Islands)
BC Range: Queen Charlotte Mtns. (Skidegate Plateau); Queen Charlotte Lowland (3 miles southwest of Jalun Lake, Long Inlet south of Upper Victoria Lake)
Biogeoclimatic Zone: AT, MH, CH
Habitat: Alpine meadows, scree slopes, moist tundra and woods
Rare Status: R2
Note: Endemic to BC

**Viola epipsila** Ledeb. subsp. **repens** (Turcz.) W. Becker
Dwarf Marsh Violet
Herbaria: CAN, DAO, UBC, V
Reference: Buttrick 1977, Hamet-Ahti 1965
Map: Hultén 1958, 1968
Range: AK, YT, NT, BC to MB, n-c ON and Labrador, south to CA; Eurasia
BC Range: Northern BC (Langara Island, Atlin Lake, Haines Road area, Fort St. John, Liard Hotsprings, Terrace, Murtle Lake, Anahim Lake, Ilgachuz Mtns.)
Biogeoclimatic Zone: ES
Habitat: Wet meadows, peaty soil, brooksides, swamps
Rare Status: R3
Status Outside BC: Rare in Continental NT, ON

**Viola howellii** Gray
Howell's Violet
Herbaria: UBC, V
Range: Southern BC to CA
BC Range: Nanaimo Lowland; Vancouver Island Mtns. — Vancouver Island Ranges; Fraser Lowland; Skagit Range; Bulkley Ranges (Victoria, Sooke, Saanichton, Saltspring Island, Skagit River, Caulfield, South Hazelton)
Biogeoclimatic Zone: CF
Habitat: Moist woods, prairies
Rare Status: R2

**Viola maccabeiana** M.S. Baker
MacCabe's Violet
Herbaria: DAO, UBC, UC, V
Reference: Baker 1940, Hamet-Ahti 1965
Range: Central to se BC
BC Range: Cariboo Mtns.; Quesnel Highland; Shuswap Highland; Thompson Plateau; Rocky Mtn. Trench (Wells Gray Park, Mara Meadows, Canal Flats, Kinbasket Lake, Vaseaux Lake, Kelowna, Indianpoint Lake)
Biogeoclimatic Zone: SS, CA, IF
Habitat: Moist places, meadows, along streams
Rare Status: R1
Note: Endemic to BC

**Viola septentrionalis** Greene
Northern Blue Violet
Herbaria: CAN, UBC, V
Range: Southern BC east to ON and south to PA
BC Range: Southern BC (Vancouver, Cascade, Pend'Oreille River, Kootenay Valley, Thetis Lake, Prospect Lake)
Biogeoclimatic Zone: IF, CF
Habitat: Moist open woods
Rare Status: R4

**Vulpia microstachys** (Nutt.) Munroe ex Benth.
Small Vulpia
Herbaria: CAN, DAO, UBC, V, WS
Reference: Janszen 1977
Range: BC to Baja CA, east to MT, UT and NM; South America
BC Range: Nanaimo Lowland, Fraser Lowland, Georgia Lowland, Monashee Mountains (Victoria to Nanaimo, Saturna Island, West Vancouver, Gibsons Landing, Kettle River)
Biogeoclimatic Zone: PP, CF
Habitat: Coastal strand to inland valleys, deserts, woodland, lower montane forest, embankments, wasteland
Rare Status: R2

**Wolffia borealis** (Engelm.) Land.
Watermeal
Herbaria: V
Reference: Ceska and Ceska 1980
Range: BC east to ON and south to the Gulf States
BC Range: Fraser Lowland (Hatzic), Creston (Duck Lake)
Biogeoclimatic Zone: CH
Habitat: Stagnant ponds
Rare Status: R1
Status Outside BC: Rare in PQ, IN, MO, VT

**Wolffia punctata** Griseb. = **W. borealis** (Engelm.) Land.

**Woodsia alpina** (Bolton) S.F. Gray
Northern Woodsia
Herbaria: UBC
Reference: Taylor 1971
Map: Hultén 1968, Taylor 1971
Range: Circumpolar, south in w North America to nw BC
BC Range: Northwestern BC (Haines Road)
Biogeoclimatic Zone: BS
Habitat: Rock crevices and talus
Rare Status: R1
Status Outside BC: Rare in MB, Continental NT, ON, PQ, NS, NB, ME, VT, threatened in MI, NY

**Woodsia glabella** R. Br. in J. Richards.
Smooth Woodsia
Herbaria: UBC, V
Reference: Taylor 1971
Map: Hultén 1968, Taylor 1971
Range: Circumpolar, south in w North America to c BC
BC Range: Park Ranges (Mt. Robson), Fraser Basin (Ft. St. James), Cassiar Mountains (Cassiar), Muskwa Ranges (Summit Lake)
Biogeoclimatic Zone: SS, BS, ES
Habitat: Limestone ledges
Rare Status: R3
Status Outside BC: Rare in AB, SK, MB, NS, ME, MN, NH, NY, VT

**Woodsia ilvensis** (L.) R. Br.
Rusty Woodsia
HERBARIA: UBC, V
REFERENCE: Taylor 1971
MAP: Hultén 1968, Taylor 1971
RANGE: Circumpolar, south in w North America to c BC
BC RANGE: Scattered distribution in Province (150 Mile House, Prince George, Stone Mtn., Cassiar)
BIOGEOCLIMATIC ZONE: SS, CA, AT
HABITAT: Rock crevices and talus slopes
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in AB, YT, IL, IA, endangered in NC, possibly extirpated in RI

**Woodwardia fimbriata** J.E. Smith ex Rees
Giant Chain Fern
HERBARIA: GD, UBC, V
REFERENCE: Taylor 1971
MAP: Taylor 1971
RANGE: Southwestern BC south to CA and AZ
BC RANGE: Vancouver Island (Saanich Peninsula, Malahat) Gulf Islands (Texada and Lasqueti)
BIOGEOCLIMATIC ZONE: CF
HABITAT: Shaded ravines
RARE STATUS: R1
STATUS OUTSIDE BC: Rare in WA

**Xerophyllum tenax** (Pursh) Nutt.
Bear-grass
HERBARIA: CAN, UBC, UVIC, V
REFERENCE: Taylor 1974b
MAP: Maule 1959, Taylor 1974b
RANGE: Southeastern BC and sw AB, south to nw WA and c CA, east to ID, M
BC RANGE: Southeastern BC (Kelowna, Trail, Nelson, Ymir, Salmo, Crawford Bay, Kimberley, Flathead, Akamina Pass)
BIOGEOCLIMATIC ZONE: ES, IH
HABITAT: Open woods and clearings, dry or peaty soil
RARE STATUS: R4
STATUS OUTSIDE BC: Rare in AB

**Zannichellia palustris** L.
Horned Pondweed
HERBARIA: DAO, UBC, V
MAP: Hultén 1968
RANGE: Throughout North America and Eurasia; Africa; South America
BC RANGE: Scattered distribution in Province (Vanderhoof, Delta, Hat Lake, Woodward Island, Osoyoos Lake, Enderby)
BIOGEOCLIMATIC ZONE: IF, PP, CF, CH
HABITAT: Fresh or brackish water
RARE STATUS: R3
STATUS OUTSIDE BC: Rare in YT, IN

## REFERENCES CITED / RÉFÉRENCES PERTINENTES


Aiken, S.G. 1981. A conspectus of *Myriophyllum* (Haloragaceae) in North America. Brittonia 33:52-69.

Annas, R.M. 1973. Appendix A. Phytogeocoenoses of the Boreal White and Black Spruce Zone in the Fort Nelson area. pp. 5-9. *In* V.J. Krajina (ed.), 1973 Progress Report, National Research Council Grant no. A-92.

Applegate, E.I. 1935. The genus *Erythronium*: a taxonomic and distribution study of the western North American species. Madroño 3:58-113.

Argus, G.W. 1973. The Genus *Salix* in Alaska and the Yukon. Ottawa: National Museums of Canada, Publications in Botany, No. 2.

Argus, G.W. 1974. A new species of *Salix* from northern British Columbia. Canadian Journal of Botany 52:1303-1304.

Argus, G.W. and/et C.J. Keddy. 1984. Atlas of the rare vascular plants of Ontario. Atlas des plantes vasculaires rares de l'Ontario. Part/Partie 3. Ottawa: National Museums of Canada/Musées nationaux du Canada.

Argus, G.W. and/et D.J. White. 1977. The rare vascular plants of Ontario/Les plantes vasculaires rares de l'Ontario. Syllogeus 14. Ottawa: National Museums of Canada/Musées nationaux du Canada.

Argus, G.W. and/et D.J. White. 1978. The rare vascular plants of Alberta/Les plantes vasculaires rares de l'Alberta. Syllogeus 17. Ottawa: National Museums of Canada/Musées nationaux du Canada.

Argus, G.W. and/et D.J. White. 1982-1983. Atlas of the rare vascular plants of Ontario/Atlas des plantes vasculaires rares de l'Ontario. Part/Partie 1-2. Ottawa: National Museums of Canada/Musées nationaux du Canada.

Bacone, J.A. and C.L. Hedge. 1980. A preliminary list of endangered and threatened vascular plants in Indiana. Proceedings of the Indiana Academy of Science 89:359-371.

Ayensu, E.S. and R.A. DeFilipps. 1978. Endangered and Threatened Plants of the United States. Smithsonian Institution and the World Wildlife Fund Inc., Washington, D.C.

Baker, M.S. 1940. Studies in western violets — III. Madroño 5:218-231.

Barkley, T.M. 1978. *Senecio*. *In* North American Flora II. pp. 160-173.

Barkley, T.M. 1980. Taxonomic notes on *Senecio tomentosus* and its allies (Asteraceae). Brittonia 32:291-308.

Barkworth, M.E. and J. Linman. 1984. *Stipa lemmonii* (Vasey) Scribner (Poaceae): A taxonomic and distributional study. Madroño 31:48-56.

Barneby, R.C. 1964. Atlas of North American *Astragalus*. Memoirs of the New York Botanical Garden 13:1-1188.

Bassett, I.J. 1967. Taxonomy of *Plantago* L. in North America: Sections *Holopsyllium* Pilger, *Palaeopsyllium* Pilger and *Lamprosantha* Decne. Canadian Journal of Botany 45:565-577.

Bassett, I.J. 1973. The Plantains of Canada. Research Branch, Canada Department of Agriculture, Monograph No. 7.

Bassett, I.J. and C.W. Crompton. 1973. The genus *Atriplex* (Chenopodiaceae) in Canada and Alaska. III. Three hexaploid annuals: *A. subspicata, A. gmelinii* and *A. alaskensis*. Canadian Journal of Botany 51:1715-1723.

Bassett, I.J., C.W. Crompton, J. McNeill and P.M. Taschereau. 1983. The genus *Atriplex* (Chenopodiaceae) in Canada. Agriculture Canada, Monograph 31. Ottawa.

Bassett, I.J., G.A. Mulligan and C. Frankton. 1962. Poverty weed, *Iva axillaris*, in Canada and the United States. Canadian Journal of Botany 40:1243-1249.

Beaman, J.H. 1957. The systematics and evolution of *Townsendia* (Compositae). Contributions from the Gray Herbarium 183:1-151.

Beamish, K.I. 1955. Studies in the genus *Dodecatheon* of Northwest America. Bulletin of the Torrey Botanical Club 82:357-366.

Beese, W.J. 1983. White Malaxis, *Malaxis monophyllos* var. *diphyllos*, an addition to the orchids of Canada from the Queen Charlotte Islands, British Columbia. The Canadian Field-Naturalist 97(2):215-216.

Beil, C.E., R.L. Taylor and G.A. Guppy. 1976. The biogeoclimatic zones of British Columbia. Davidsonia 7:45-55.

Boivin, B. 1967-1972. Flora of the Prairie Provinces, Parts 1-3, continuing Provancheria 2-4. Universite Laval, Quebec. (Extracted from Phytologia 15-18, 22, 23).

Bouchard, A., D. Barabé, M. Dumais and/et S. Hay. 1983. Les plantes vasculaires rares du Québec/The rare vascular plants of Quebec. Syllogeus 48. Ottawa: Musées nationaux du Canada/National Museums of Canada.

Bowden, W.M. 1962. Cytotaxonomy of the native and adventive species of *Hordeum, Eremophyrum, Secale, Sitanion* and *Triticum* in Canada. Canadian Journal of Botany 40:1675-1711.

Bowden, W.M. 1964. Cytotaxonomy of the species and interspecific hybrids of the genus *Elymus* in Canada and neighbouring areas. Canadian Journal of Botany 42:547-601.

Boyle, W.S. 1945. A cyto-taxonomic study of the North American species of *Melica*. Madroño 8:1-26.

Braun, E.L. 1967. The Vascular Flora of Ohio. The Monocotyledoneae. Cat-tails to Orchids. Columbus: Ohio State University Press.

Brayshaw, T.C. 1973. The sandbar willow on Vancouver Island. Syesis 6:147-152.

Brayshaw, T.C. 1976. Catkin Bearing Plants of British Columbia. British Columbia Provincial Museum. No. 18 Occasional Paper Series. Victoria: Queen's Printer. pp. 176.

British Columbia. 1979a. Dogwood, Rhododendron and Trillium Protection Act. Revised Statutes Chapter 96. Victoria: Queen's Printer.

British Columbia. 1979b. Ecological Reserves Act. Revised Statutes Chapter 101. Victoria: Queen's Printer.

Brooke, R.C., N.A.M. Verbeek and J.W. Kirbyson. 1984. An annotated vascular flora of Mitlenatch Island, British Columbia. Syesis, 16:23-38.

Broome, C., J. Reveal, A. Tucker and N. Dill. 1979. Rare and endangered vascular plant species in Maryland. United States Fish and Wildlife Service, Newton Corner, Massachusetts. pp. 64.

Brunton, D.F. 1983a. Status report on *Adiantum capillus-veneris* (Adiantaceae). Committee on the Status of Endangered Wildlife in Canada, Canadian Wildlife Service, Ottawa. 28 pp. Unpublished.

Brunton, D.F. 1983b. Status report on *Azolla mexicana* (Salviniaceae). Committee on the Status of Endangered Wildlife in Canada, Canadian Wildlife Service, Ottawa. 31 pp. Unpublished.

Brunton, D.F. 1983c. Status report on *Epipactis gigantea* (Orchidaceae). Committee on the Status of Endangered Wildlife in Canada, Canadian Wildlife Service, Ottawa. 26 pp. Unpublished.

Buttrick, S.C. 1977. The alpine flora of Teresa Island, Atlin Lake, B.C., with notes on its distribution. Canadian Journal of Botany 55:1399-1409.

Calder, J.A. and R.L. Taylor. 1965. New taxa and nomenclatural changes with respect to the flora of the Queen Charlotte Islands, British Columbia. Canadian Journal of Botany 43:1387-1400.

Calder, J.A. and R.L. Taylor. 1968. Flora of the Queen Charlotte Islands. Part 1. Systematics of the vascular plants. Research Branch, Canada Department of Agriculture Monograph 4(1). Queen's Printer, Ottawa. xiii + 659 pp.

California. 1980. List of designated endangered or rare plants. California Department of Fish and Game, Sacramento. pp. 5.

Carter, W.R. and C.F. Newcombe. 1921. A Preliminary Catalogue of the Flora of Vancouver and Queen Charlotte Islands and Addenda. Victoria: British Columbia Provincial Museum of Natural History.

Casper, S.J. 1962. On *Pinguicula macroceras* Link in North America. Rhodora 64:212:221.

Ceska, A. and M.A.M. Bell. 1973. *Utricularia* (Lentibulariaceae) in the Pacific Northwest. Madroño 22:74-84.

Ceska, A. and O. Ceska. 1980. Additions to the flora of British Columbia. Canadian Field-Naturalist. 94:69-74.

Ceska, A., O. Ceska and W. Van Dieren. 1984. Oregon Ash in British Columbia. British Columbia Naturalist, December (winter):17.

Ceska, A. and P.D. Warrington. 1976. *Myriophyllum farwellii* (Haloragaceae) in British Columbia. Rhodora 78:75-78.

Chambers, K.L. 1955. A biosystematic study of the annual species of *Microseris*. Contributions from the Dudley Herbarium 4:207-312.

Chuang, C.-C. 1974. *Lewisia tweedyi*: a plant record for Canada. Syesis 7: 259-260.

Chuang, T.-I. and L. Constance. 1969. A systematic study of *Perideridia* (Umbelliferae-Apioideae). University of California Publications in Botany 55:1-74.

Church, G.L. and R.L. Champlin. 1978. Rare and endangered vascular plant species in Rhode Island. The New England Botanical Club, Cambridge, Massachusetts. pp. 17.

Clark, L.J. 1973. Wild Flowers of British Columbia. Sidney, British Columbia: Gray's Publishing Limited.

Clark, T.W. and R.D. Dorn, eds. 1981. Rare and endangered vascular plants and vertebrates in Wyoming. 2nd edition. Box 2705, Jackson, Wyoming 83001. pp. 66.

Coddington, J. and K.G. Field. 1978. Rare and endangered vascular plant species in Massachusetts. The New England Botanical Club, Cambridge, Massachusetts. pp. 52.

Cody, W.J. 1954. A history of *Tillaea aquatica* (Crassulaceae) in Canada and Alaska. Rhodora 56:96-100.

Cody, W.J. 1979. Vascular plants of restricted range in the Continental Northwest Territories, Canada. Syllogeus 23. Ottawa: National Museums of Canada.

Cody, W.J. and D.M. Britton. 1984. *Polystichum lemmonii*, a rock shield-fern new to British Columbia and Canada. Canadian Field-Naturalist 98:375.

Cody, W.J. and S.S. Talbot. 1973. The pitcher plant *Sarracenia purpurea* L. in the northwestern part of its range. Canadian Field-Naturalist 87:318-319.

Collins, J.L., H.R. DeSelm, A.M. Evans, R. Kral and B.E. Wofford. 1978. The rare vascular plants of Tennessee. Journal of the Tennessee Academy of Science 53:128-133.

Constance, L. 1941. The genus *Nemophila* Nutt. University of California Publications in Botany 19:341-398.

Constance, L. and R.H. Shan. 1951. The genus *Osmorhiza* (Umbelliferae) — a study in geographic affinities. University of California Publications in Botany 23:111-155.

Core, E.L. *s.d.* Rare and endangered plant species in West Virginia. West Virginia Department of Agriculture, Charleston. *s.p.*

Correll, D.S. 1943. The genus *Habenaria* in western North America. Leaflets of Western Botany 3:233-247.

Correll, D.S. 1950. Native Orchids of North America. Waltham, Massachusetts Chronica Botanica Company.

Countryman, W.D. 1978. Rare and endangered vascular plants in Vermont. The New England Botanical Club, Cambridge, Massachusetts. pp. 68.

Crins, W.J. and P.W. Ball. 1983. The taxonomy of the *Carex pensylvanica* complex (Cypreaceae) in North America. Canadian Journal of Botany 61:1692-1717.

Critchfield, W.B. and E.L. Little, Jr. 1966. Geographic Distribution of the Pines of the World. Washington, D.C.: United States Department of Agriculture, Forest Service, Miscellaneous Publications 991.

Cronquist, A. 1947. Revision of the North American species of *Erigeron*, north of Mexico. Brittonia 6:121-302.

Davidson, J.F. 1950. The genus *Polemonium* (Tourneforte) L. University of California Publications in Botany 23:209-282.

Dawe, N.K. and E.R. White. 1982. Some aspects of the vegetation ecology of the Little Qualicum River estuary, British Columbia. Canadian Journal of Botany 60:1446-1460.

deVries, B. 1966. *Iris missouriensis* Nuttall in southwestern Alberta and central and northern British Columbia. Canadian Field-Naturalist 80:158-160.

Dietrich, W. and P.H. Raven. 1976. An earlier name for *Oenothera strigosa* (Onagraceae). Annals of the Missouri Botanical Garden 63:382-383.

Douglas, G.W. 1982. The Sunflower Family (Asteraceae) of British Columbia. Vol. I — Senecioneae. Victoria: British Columbia Provincial Museum Occasional Paper Series No. 23.

Douglas, G.W. 1984. The Sunflower Family (Asteraceae) of British Columbia. Vol. II. — Astereae. Victoria: British Columbia Provincial Museum Occasional Paper Series (In press).

Douglas, G.W., G.W. Argus, H.L. Dickson and D.F. Brunton. 1981. The Rare Vascular Plants of the Yukon. Syllogeus 28. Ottawa: National Museums of Canada.

Douglas, G.W. and M.J. Ratcliffe. 1981. Some rare plant collections, including three new records for Canada, from Cathedral Provincial Park, southern British Columbia. Canadian Journal of Botany 59:1537-1538.

Douglas, G.W. and G. Ruyle-Douglas. 1978. Contributions to the floras of British Columbia and the Yukon Territory. I. Vascular plants. Canadian Journal of Botany 56:2296-2302.

Drury, W.H., Jr. and R.C. Rollins. 1952. The North American representatives of *Smelowskia* (Cruciferae). Rhodora 54:85-119.

Dunn, D.B. and J.M. Gillett. 1966. The Lupines of Canada and Alaska. Ottawa: Canada Department of Agriculture Monograph No. 2.

Eastman, L.M. 1978. Rare and endangered vascular plant species in Maine. The New England Botanical Club, Cambridge, Massachusetts. pp. 33.

Ebinger, J.E. ed. 1981. Illinois endangered and threatened plant species. Pages 72-186 *in* M.L. Bowles, ed. Endangered and threatened vertebrate animals and vascular plants of Illinois. Department of Conservation.

Epling, C. 1939. Notes on the Scutellariae of western North America. Madrōno 5:49-72.

Erdman, K.S. 1965. Taxonomy of the genus *Sphenopholis* (Gramineae). Iowa State Journal of Science 39:259-36.

Fernald, M.L. 1933. Recent discoveries in the Newfoundland flora, *Catabrosa aquatica*. Rhodora 35:137-140.

Fernald, M.L. 1970. Gray's Manual of Botany. (Corrected Printing). Toronto: Van Nostrand Reinhold Ltd.

Foster, R.C. 1937. A cyto-taxonomic survey of the North American species of *Iris*. Contributions from the Gray Herbarium. 119:1-82.

Fowells, H.A. 1965. Silvics of Forest Trees of the United States. Washington, D.C.: United States Department of Agriculture, Forest Service, Agriculture Handbook No. 271.

Frankton, C. and G.A. Mulligan. 1970. Weeds of Canada. (Rev. ed.). Canadian Department of Agriculture Publication 948. Ottawa: Queen's Printer.

Fukuda, I. and R.B. Channell. 1975. Distribution and evolutionary significance of chromosomal variation in *Trillium ovatum*. Evolution 29:257-266.

Gillett, J.M. 1957. A revision of the North American species of *Gentianella* Moench. Annals of the Missouri Botanical Garden 44:195-269.

Gillett, J.M. 1963. The Gentains of Canada, Alaska and Greenland. Research Branch, Canada Department of Agriculture, Publication 1180. Ottawa: Queen's Printer.

Gillett, J.M. 1968. The Milkworts of Canada. Canadian Department of Agriculture, Monograph No. 5. Ottawa: Queen's Printer.

Gillett, J.M. 1971. The native Rhododendrons of Canada and Alaska. Greenhouse-Garden-Grass 10:35-45.

Glendenning, R. 1944. The Garry Oak in British Columbia — an interesting example of discontinuous distribution. Canadian Field-Naturalist 58:61-65.

Good, D. 1978. Revised 1980. Threatened, endangered and extinct species of Michigan plants. Michigan Department of Natural Resources, Lansing, Michigan.

Haber, E. and J.H. Soper. 1980. Vascular Plants of Glacier National Park, British Columbia, Canada. Syllogeus 24:1-34. Ottawa: National Museums.

Hamet-Ahti, L. 1965. Vascular plants of Wells Gray Provincial Park and its vicinity, in eastern British Columbia. Annales Botanici Fennici 2:138-164.

Hardin, J.W., R.L. Kologiski, J.R. Massey, J.F. Matthews, J.D. Pittillo and A.E. Radford, 1977. North Carolina endangered and threatened vascular plants. Pages 56-142 *in* J.E. Cooper, S.S. Robinson and J.B. Funderburg, eds. Endangered and threatened plants and animals of North Carolina. North Carolina State Museum of Natural History, Raleigh.

Harms, V.L. 1973. Taxonomic studies of North American *Sparganium*. I. *S. hyperboreum* and *S. minimum*. Canadian Journal of Botany 51:1629-1641.

Harms, V.L. 1974. The native roses of Saskatchewan. Blue Jay 32:131-139.

Haynes, R.R. 1974. A revision of North American *Potamogeton* subsect. *pusilli* (Potamogetonaceae). Rhodora 76:564-649.

Heckard, L.R. 1973. A taxonomic re-interpretation of the *Orobanche californica* complex. Madroño 22:41-104.

Henderson, D.M. 1981. A new *Douglasia* (Primulaceae) from Idaho. Brittonia 33:52-56.

Henderson, D.M., F.D. Johnson, P. Packard and R. Steele. 1977. Endangered and threatened plants of Idaho. College of Forestry, Wildlife and Range Sciences. Bulletin 21. pp. 72.

Hinds, H.R. 1983. The rare vascular plants of New Brunswick/ Les plantes vasculaires rares du Nouveau-Brunswick. Syllogeus 50. Ottawa: National Museums of Canada/Musées nationaux du Canada.

Hinton, W.F. 1975. Systematics of *Calyptridium umbellatum* complex. Brittonia. 27:197-208.

Hitchcock, A.S. 1951. Manual of the Grasses of the United States (2nd ed). Revised by A. Chase. United States Department of Agriculture, Miscellaneous Publications No. 200.

Hoch, P.C. and P.H. Raven. 1977. New combinations in *Epilobium* (Onagraceae). Annals of the Missouri Botanical Garden. 64:136.

Holland, S.S. 1964. Landforms of British Columbia, A Physiographic Outline. British Columbia Department of Mines and Petroleum Resources. Victoria: Queen's Printer.

Hosie, R.C. 1969. Native Trees of Canada (7th ed.). Canadian Forest Service, Department of Environment. Ottawa: Queen's Printer.

Hubbard, W.A. 1955. The Grasses of British Columbia. British Columbia Provincial Museum Handbook No. 9. Victoria: Queen's Printer.

Hultén, E. 1958. The Amphi-Atlantic Plants and Their Phytogeographic Connections. Kongliga Svenska Vetenskaps Akadeniens Handlingar. Series 4, 7(10):1-340.

Hultén, E. 1962. The Circumpolar Plants, I. Vascular Cryptogams, Conifers Monocotyledons. Kongliga Svenska Vetenskaps Akadeniens Handlingar. Series 4, 8(5):1-27.

Hultén, E. 1968. Flora of Alaska and neighboring territories. Stanford University Press. xxii + 1008 pp.

Hultén, E. 1971. The Circumpolar Plants, II. Dicotyledons. Kongliga Svenska Vetenskaps Akademiens Handlingar. Series 4, 13(1):1-463.

Jamieson, D.W. 1979. *Poa kelloggii* Vasey, new for British Columbia. Syesis 12:177.

Janszen, H. 1977. Vascular plants of Saturna Island, British Columbia. Syesis 10:85-96.

Jeffrey, W.W. 1961. Notes on plant occurrence along Lower Liard River, Northwest Territories. National Museum of Canada, Contributions to Botany, 1959. 171:32-115.

Johnston, I.M. 1925. The North American species of *Cryptantha*. Contributions from the Gray Herbarium 74:1-114.

Johnston, M.C. 1974. Rare and endangered plants native to Texas. Rare Plant Study Center. University of Texas, Austin. pp. 12.

Jones, Q. 1951. A cytotaxonomic study of the genus *Disporum* in North America. Contributions from the Gray Herbarium 173:1-40.

Kartesz, J.T. and R. Kartesz. 1980. A synonymized checklist of the vascular flora of the United States, Canada and Greenland. Chapel Hill, North Carolina: The University of North Carolina Press.

Kershaw, L. and J.K. Morton. 1976. Rare and potentially endangered species in the Canadian flora — a preliminary list of vascular plants. The Bulletin of the Canadian Botanical Association 9:26-30.

Kiger, R.W. 1975. *Papaver* in North America north of Mexico. Rhodora 77:410-422.

Koyama, T. and S. Kawano. 1964. Critical taxa of grasses with North American and eastern Asiatic distribution. Canadian Journal of Botany 42:859-884.

Kruckeberg, A.L. 1982. Noteworthy collections. Madroño 29:271.

Kruckeberg, A.R. 1979. Plants that grow on serpentine. Davidsonia 10:21-29.

Krajina, V.J. 1968. Sarraceniaceae, a new family for British Columbia. Syesis 1:121-124.

Kuijt, J. 1982. A flora of Waterton Lakes National Park. Edmonton: University of Alberta Press. 684 pp.

Lang, F.A. 1971. The *Polypodium vulgare* complex in the Pacific Northwest. Madroño 21:235-254.

Lewis, H. and J. Szweykowski. 1964. The genus *Gayophytum* (Onagraceae). Brittonia 16:343-391.

Little, E.L., Jr. 1971. Atlas of United States Trees. Volume 1. Conifers and Important Hardwoods. Washington, D.C.: United States Department of Agriculture. Forest Service. Miscellaneous Publication No. 1146.

Lloyd, R.M. and F.R. Lang. 1964. The *Polypodium vulgare* complex in North America. British Fern Gazette 9:168-177.

Long, R. 1979. *Eburophyton austinae* (A. Gray) A.A. Heller. Davidsonia 10(2):30-33.

Long, R.W. 1966. Biosystematics of *Helianthus nuttallii* complex (Compositae). Brittonia 18:64-79.

Love, D. 1969. *Papaver* at high altitudes in the Rocky Mountains. Brittonia 21:1-10.

Lucas, G. and H. Synge (compilers). 1978. The IUCN Plant Red Data Book. The International Union for Conservation of Nature and Natural Resources (IUCN). Old Woking, Surrey: Unwin Brothers Limited, The Gresham Press.

Luer, C.A. 1975. The Native Orchids of the United States and Canada Excluding Florida. The New York Botanical Garden. 7(10):1-340.

McNeill, J. 1973. *Lewisia triphylla* (S. Watson) Robinson and *Spraguea umbellata* Torrey, new species for Canada. Syesis 6:179-181.

McNeill, J. 1975. A generic revision of Portulacaceae tribe Montieae using techniques of numerical taxonomy. Canadian Journal of Botany 53:789-809.

McNeill, J. and J.N. Findlay. 1971. The systematic position of *Claytonia bostockii*. Canadian Journal of Botany 49:713-715.

Maguire, B.M. 1943. A monography of the genus *Arnica* (Senecioneae: Compositae) Brittonia 4:386-510.

Maher, R.V., G.W. Argus, V. Harms and/et J.H. Hudson. 1979. The rare vascular plants of Saskatchewan/Les plantes vasculaires rares de la Saskatchewan. Syllogeus 20. Ottawa: National Museums of Canada/Musées nationaux du Canada.

Maher, R.V., D.J. White, G.W. Argus and/et P.A. Keddy. 1978. The rare vascular plants of Nova Scotia/Les plantes vasculaires rares de la Nouvelle-Écosse. Syllogeus 18. Ottawa: National Museums of Canada/Musées nationaux du Canada.

Mathias, M.E. and L. Constance. 1959. New North American Umbelliferae III. Bulletin of the Torrey Botanical Club 86:374-382.

Maule, S.M. 1959. *Xerophyllum tenax*, Squawgrass, its geographic distribution and its behavior on Mount Rainier, Washington. Madroño 15:39-48.

McCollum, J. 1976. Endangered, threatened and unusual plants. Outdoors in Georgia 5(9):27-31.

McGregor, R.L. 1977. Rare native vascular plants of Kansas. State Biological Survey of Kansas. Technical Publication. pp.544.

Mehrhoff, L.J. 1978. Rare and endangered vascular plant species in Connecticut. The New England Botanical Club, Cambridge, Massachusetts. pp. 41.

Meyer, F.G. 1951. *Valeriana* in North America and the West Indies (Valerianaceae). Annales of the Missouri Botanical Garden 38:377-503.

Missouri. 1974. Rare and endangered species of Missouri. Missouri Department of Conservation, Jefferson City. *s.p.*

Mitchell, R.J. 1970. The genus *Trillium* — II. Journal of the Scottish Rock Garden Club 12:16-20.

Mitchell, R.S., C.J. Sheviak and J.K. Dean. 1980. Rare and endangered vascular plant species in New York State. New York State Museum, Albany. pp. 38.

Mitchell, W.W. and R.W. Pohl. 1966. Variation and aneuploidy in *Muhlenbergia glomerata*. American Midland Naturalist 76:211-221.

Moore, R.J. and C. Frankton. 1974. The thistles of Canada. Ottawa: Canada Department of Agriculture Monograph No. 10.

Morin, N. 1983. Systematics of *Githopsis* (Campanulaceae). Systematic Botany 8:436-468.

Morley, T. 1972. Rare or endangered plants of Minnesota with the counties in which they have been found. Botany Department, University of Minnesota, Minneapolis. pp. 13. Unpublished/inédit.

Mulligan, G.A. 1961. The genus *Lepidium* in Canada. Madroño 16:77-90.

Mulligan, G.A. 1970. Cytotaxonomic studies of *Draba glabella* and its close allies in Canada and Alaska. Canadian Journal of Botany 48:1431-1437.

Mulligan, G.A. 1971a. Cytotaxonomic studies of the closely allied *Draba cana, D. cinera* and *D. groenlandica* in Canada and Alaska. Canadian Journal of Botany 49:89-93.

Mulligan, G.A. 1971b. Cytotaxonomic studies of *Draba* species in Canada and Alaska: *D. ventosa, D. rauxes* and *D. paysonii*. Canadian Journal of Botany 49:1455-1460.

Mulligan, G.A. 1974. Cytotaxonomic studies of *Draba nivalis* and its close allies in Canada and Alaska. Canadian Journal of Botany 52:1793-1801.

Mulligan, G.A. 1980. The genus *Cicuta* in North America. Canadian Journal of Botany 58:1755-1767.

Murray, D.F. 1980. Threatened and endangered plants of Alaska. Forest Service, United States Department of Agriculture. pp. 59.

Niehaus, T.F. 1971. A biosystematic study of the genus *Brodiaea* (Amaryllidaceae). University of California Publications in Botany 60:1-66.

North Dakota. 1972. Rare and endangered plant and animal species. United States Department of Agriculture, Soil Conservation Service, Bismark. pp. 12. Unpublished/inédit.

Ogilvie, R., R. Hebda and H. Roemer. 1984. The phytogeography of *Oxalis oregana* Nutt. in British Columbia. Canadian Journal of Botany 62:1561-1563.

Ohio. 1982. Rare species of native Ohio wild plants. Ohio Department of Natural Resources, Division of Natural Areas and Preserves, Columbus. pp. 20. Unpublished/inédit.

Ornduff, R. 1966. A biosystematic survey of the goldfield genus *Lasthenia* (Compositae: Helenieae). University of California Publications in Botany 40:1-92.

Ornduff, R. 1971. Systematic studies of Limnanthaceae. Madroño 21:103-111.

Ownbey, G.B. 1947. Monograph of the North American species of *Corydalis*. Annals of the Missouri Botanical Garden 34:187-260.

Ownbey, M. 1940. A monograph of the genus *Calochortus*. Annals of the Missouri Botanical Garden 27:371-560.

Packer, J.G. 1972. A taxonomic and phytographical review of some arctic and alpine *Senecio* species. Canadian Journal of Botany 50:507-518.

Packer, J.G. and C.E. Bradley. 1984. A checklist of the rare vascular plants in Alberta. Provincial Museum of Alberta. Natural History Occasional Paper No. 5. pp. 112.

Piehl, M.A. 1965. The natural history and taxonomy of *Comandra* (Santalaceae). Memoirs of the Torrey Botanical Club 22:1-97.

Pojar, J. 1975. Interesting angiosperms from Cathedral Lakes Park and the Lower Skeena River. Syesis 8:391.

Pojar, J. 1980. Brooks Peninsula: Possible Pleistocene glacial refugium on northwestern Vancouver Island. Abstract of paper presented at Botany 80, The University of British Columbia, Vancouver, 12-16 July 1980. Botanical Society of America. Miscellaneous Series, Publication 158.

Pojar, J., K.I. Beamish, V.J. Krajina and L.K. Wade. 1976. New records and range extensions of vascular plants in northern British Columbia. Syesis 9:45-57.

Porsild, A.E. 1951. Botany of Southeastern Yukon adjacent to the Canol Road. Ottawa: National Museums of Canada Bulletin No. 121.

Porsild, A.E. 1963. *Stellaria longipes* Goldie and its allies in North America. Ottawa: National Museums of Canada Bulletin No. 183:1-35.

Porsild, A.E. 1964. Illustrated Flora of the Canadian Arctic Archipelago (2nd ed.). Ottawa: National Museums of Canada Bulletin No. 146.

Porsild, A.E. 1966. Contributions to the Flora of Southwestern Yukon Territory. Ottawa: National Museums of Canada Bulletin No. 216. Contribution to Botany IV.

Porsild, A.E. 1974. Rocky Mountain Wild Flowers. Natural History Series No. 2, Ottawa: National Museums of Canada and Parks Canada.

Porsild, A.E. and W.J. Cody. 1980. Vascular plants of Continental Northwest Territories, Canada. Ottawa: National Museums of Canada. viii + 667 pp.

Porsild, A.E. and H.A. Crum. 1961. The Vascular Flora of Liard Hotsprings B.C., with Notes on some Bryophytes. Ottawa: National Museums of Canada Bulletin No. 171:131-197.

Porter, C.L. 1964. A Flora of Wyoming Part III. Agricultural Experiment Station, University of Wyoming at Laramie. Bulletin 418.

Porter, C.L. 1972. A Flora of Wyoming Part VII. Agricultural Experiment Station, University of Wyoming at Laramie. Bulletin 418.

Porter, D.M. 1979. Rare and endangered vascular plant species in Virginia. Virginia Polytechnic Institute and State University, Blacksburg. pp. 52.

Raup, H.M. 1934. Phytogeographic studies in the Peace and Upper Liard River regions, Canada, with a catalogue of the vascular plants. Contributions from the Arnold Arboretum. VI.

Raup, H.M. 1959. The willows of boreal western America. Contributions from the Gray Herbarium. No. CLXXXV.

Raven, P.H. 1969. A revision of the genus *Camissonia* (Onagraceae). Washington, D.C.: Smithsonian Institution Press.

Raven, P.H. and D.P. Gregory. 1972a. A revision of the genus *Gaura* (Onagraceae). Memoirs of the Torrey Botanical Club 23:1-96.

Raven, P.H. and D.P. Gregory. 1972b. Observations of meiotic chromosomes in *Gaura* (Onagraceae). Brittonia 24:71-86.

Raven, P.H. and D.M. Moore. 1965. A revision of *Boisduvalia* (Onagraceae). Brittonia 17:238-254.

Rayner, D.A. and other members of the South Carolina Advisory Committee on Endangered, Threatened and Rare Plants. 1979. Native vascular plants endangered, threatened or otherwise in jeopardy in South Carolina. South Carolina Museum Commission. Museum Bulletin 4. pp. 22.

Read, R.H. 1976. Endangered and threatened vascular plants in Wisconsin. Technical Bulletin No. 92. Scientific Areas Preservation Council, Department of Natural Resources, Madison, pp. 58.

Reid, T.C. 1978. Vegetation and Environmental Patterns of Liard River Hot Springs Provincial Park, British Columbia. Master of Science Thesis. Simon Fraser University.

Revel, R.D. and K.I. Beamish. 1972. *Liparis loeselii* (L.) L.C. Rich., a new species for British Columbia. Syesis 5:287.

Rigby, S.J. and D.M. Britton. 1970. The distribution of *Pellaea* in Canada. Canadian Field-Naturalist 84:137-144.

Roberts, A. 1983. A field guide to the sedges of the Cariboo Forest Region of British Columbia. Land Management Report No. 14, British Columbia Ministry of Forests.

Roemer, H.L. and R.T. Ogilvie. 1983. Additions to the flora of the Queen Charlotte Islands on limestone. Canadian Journal of Botany 61:2577-2580.a

Rubtzoff, P. 1969. Notes on *Callitriche* in western North America. The Wasmann Journal of Biology 27:103-114.

Sarvela, J., D.M. Britton and K. Pryer. 1981. Studies on the *Gymnocarpium robertianum* complex in North America. Rhodora 81:421-431.

Savile, D.B.O. 1969. Interrelationships of *Ledum* species and their rust parasites in Western Canada and Alaska. Canadian Journal of Botany 47:1085-1100.

Schofield, W.B. 1959. The Salt Marsh Vegetation of Churchill, Manitoba, and its Phytogeographic Implications. Ottawa: National Museums of Canada Bulletin No. 160, Contributions to Botany I.

Schumacher, C.M. 1975. Endangered plants of South Dakota — Preliminary draft. South Dakota Endangered Species Committee. Soil Conservation Service, United States Department of Agriculture, Huron. pp. 2. Unpublished/inédit.

Siddall, J.L., K.L. Chambers and D.H. Wagner. 1979. Rare, threatened and endangered vascular plants in Oregon. Oregon Natural Area Preserves Advisory Committee. Oregon State Land Board, Salem. pp. 109.

Snyder, D.B. and V.E. Vivian. 1981. Rare and endangered vascular plants in New Jersey. The Conservation and Environmental Studies Center, Inc. and United States Fish and Wildlife Service, pp. 98.

Stafleu, F.A. (ed.). 1981. Index Herbariorum. Part 1. The Herbaria of the World. 7th edition. Utrecht/Antwerpen: Bohn, Scheltema and Holkema.

Stocking, K.M. 1955. Some taxonomic and ecological considerations of the genus *Marah* (Cucurbitaceae). Madroño 13:113-137.

Storks, M. and G.E. Crow. 1978. Rare and endangered vascular plant species in New Hampshire. The New England Botanical Club, Cambridge, Massachusetts. pp. 66.

Straley, G.B. 1980. *Arnica* in the wild and in cultivation in British Columbia. Davidsonia 11:25-33.

Strother, J.L. 1978. *Cacaliopsis, Luina, Rainiera, Tetradymia, Peucephyllum, Lepidospartum. In* North American Flora II. pp. 160-173.

Stuckey, R.L. and M.L. Roberts. 1977. Rare and endangered aquatic vascular plants of Ohio. An annotated list of the imperiled species. Sida 7:24-41.

Szczawinski, A.F. 1975a. Orchids of British Columbia. British Columbia Provincial Museum, Handbook No. 16. Victoria: Queen's Printer.

Szczawinski, A.F. 1975b. The Heather Family (Ericaceae) of British Columbia. British Columbia Provincial Museum, Handbook No. 19. Victoria: Queen's Printer.

Szczawinski, A.F. and A.S. Harrison. 1973. Flora of Saanich Peninsula. British Columbia Provincial Museum, Occasional Paper No. 16. Victoria: Queen's Printer.

Taylor, R.L. 1965. The genus *Lithophragma* (Saxifragaceae). University of California Publications in Botany 57:1-122.

Taylor, R.L. and S. Taylor. 1973. *Rhododendron macrophyllum* D. Don ex G. Don. Davidsonia 4:4-8.

Taylor, R.L. and S. Taylor. 1977a. *Trillium ovatum* Pursh. Davidsonia 8:9-14.

Taylor, R.L. and S. Taylor. 1977b. The genus *Viburnum* in British Columbia. Davidsonia 8:41-47.

Taylor, R.L. and S. Taylor. 1978. The genus *Rosa* in British Columbia. Davidsonia 9:30-43.

Taylor, R.L. and S. Taylor. 1979a. The genus *Plectritis* in British Columbia. Davidsonia 10:13-18.

Taylor, R.L. and S. Taylor. 1979b. The genus *Lonicera* in British Columbia. Davidsonia 10:54-63.

Taylor, R.L., S. Taylor and G.A. Guppy. 1975. The genus *Dodecatheon* Linnaeus in British Columbia. Davidsonia 6:7-12.

Taylor, S. 1979. Insectivorous plants in British Columbia. Davidsonia 10:41-53.

Taylor, T.M.C. 1967. *Mecodium wrightii* in British Columbia and Alaska. American Fern Journal 57:1-6.

Taylor, T.M.C. 1970. Pacific Northwest ferns and their allies. Toronto: University of Toronto Press.

Taylor, T.M.C. 1971. The Ferns and Fern-allies of British Columbia. British Columbia Provincial Museum, Handbook No. 12 (2nd ed.). Victoria: Queen's Printer.

Taylor, T.M.C. 1973. The Rose Family (Rosaceae) of British Columbia. British Columbia Provincial Museum, Handbook No. 30. Victoria: Queen's Printer.

Taylor, T.M.C. 1974a. The Figwort Family (Scrophulariaceae) of British Columbia. British Columbia Provincial Museum, Handbook No. 33. Victoria: Queen's Printer.

Taylor, T.M.C. 1974b. The Lily Family (Liliaceae) of British Columbia. British Columbia Provincial Museum, Handbook No. 25. Victoria: Queen's Printer.

Taylor, T.M.C. 1974c. The Pea Family (Leguminosae) of British Columbia. British Columbia Provincial Museum, Handbook No. 32. Victoria: Queen's Printer.

Taylor, T.M.C. 1983. The Sedge Family (Cyperaceae). British Columbia Provincial Museum, Handbook No. 43. Victoria: Queen's Printer.

Theobald, W.L. 1966. The *Lomatium dasycarpum — mohavense — foeniculaceum* complex (Umbelliferae). Brittonia 18:1-18.

Thieret, J.W. 1960. *Calamovilfa longifolia* and its variety *magna*. American Midland Naturalist 63:169-176.

Thieret, J.W. 1966. Synopsis of the genus *Calamovilfa* (Gramineae). Castanea 31:145-152.

Thomas, J.L. 1976. Plants. Pages 5-12 *in* H. Boshung, ed. Endangered and threatened plants and animals of Alabama. Alabama Museum of Natural History, University of Alabama. Bulletin 2.

Thorne, R.F. 1953. Notes on rare Iowa plants. Iowa Academy of Science 60:260-274.

Thorne, R.F. 1956. Notes on rare Iowa plants II. Iowa Academy of Science 63:214-227.

Tillett, S.S. 1967. The maritime species of *Abronia* (Nyctaginaceae). Brittonia 19:299-327.

Tomb, A.S. 1980. Taxonomy of *Lygodesmia* (Asteraceae). Systematic Botany Monographs 1:1-51.

Tucker, A., N. Dill, C. Broome, C. Phillips and M. Maciarello. 1979. Rare and endangered vascular plant species in Delaware. United States Fish and Wildlife Service, Newton Corners. pp. 89.

Ulke, T. 1934. A Flora of Yoho Park, British Columbia. Catholic University of America, Biology Series No. 14.

Underhill, J.E. 1967. The Plants of Manning Park, British Columbia. British Columbia Department of Recreation and Conservation, Parks Branch.

Uttal, L.J. 1973. The scientific name of the Alaska *Spiraea*. Bulletin of the Torrey Botanical Club 100:236-237.

Voss, E.G. 1972. Michigan Flora. Part I. Gymnosperms and Monocots. Bloomfield Hills, Michigan: Cranbrook Institute of Science.

Wagner, D.H. 1979. Systematics of *Polystichum* in western North America north of Mexico. Pteridologia 1:1-64.

Wagner, W.H., Jr. and K.E. Boydston. 1978. A dwarf coastal variety of maidenhair fern, *Adiantum pedatum*. Canadian Journal of Botany 56:1726-1729.

Wagner, W.H., E.G. Voss, J.H. Beaman, E.A. Bourdo, F.W. Case, J.A. Churchill and P.W. Thompson. 1977. Endangered, threatened and rare vascular plants in Michigan. Michigan Botanist 16:99-110.

Wagner, W.H. and F.S. Wagner. 1981. New species of moonworts, *Botrychium* subgenus *Botrychium* (Ophioglossaceae) from North America. American Fern Journal 71:20-30.

Wagnon, H.K. 1952. A revision of the genus *Bromus*, section *Bromopsis* of North America. Brittonia 7:415-480.

Wahl, H.A. 1952-1953. A preliminary study of the genus *Chenopodium* in North America. Bartonia 27:1-46.

Ward, D.B., ed. 1979. Plants. Pages 1-175 *in* P.C. Pritchard, ed. Rare and endangered biota of Florida. University Presses of Florida, Gainsville. pp. 175.

Washington Natural Heritage Program. 1984. Endangered, threatened and sensitive vascular plants of Washington. Department of Natural Resources, Olympia. pp. 29.

Weber, W.A. and B.C. Johnston. 1976. Natural history inventory of Colorado, 1. Vascular plants, lichens and bryophytes. University of Colorado Museum, Boulder. pp. 205.

Welsh, S.L. 1967. Legumes of Alaska II: *Oxytropis* DC. Iowa State Journal of Science 41:277-303.

Welsh, S.L. and J.K. Rigby. 1971. Botanical and physiographic reconnaissance of northern British Columbia. Brigham Young University Bulletin. Biological Series, Volume XIV, No. 4.

Welsh, S.L. and K.H. Thorne. 1979. Illustrated manual of proposed endangered and threatened plants of Utah. Brigham Young University, Science Provo. pp. 318.

White, D.J. and/et K.L. Johnson. 1980. The rare vascular plants of Manitoba/Les plantes vasculaires rares du Manitoba. Syllogeus 27. Ottawa: National Museums of Canada/Musées nationaux du Canada.

Wiegman, P.G. 1979. Rare and endangered vascular plant species in Pennsylvania. Western Pennsylvania Conservancy, Pittsburg. pp. 94.

Zanoi, T.A., J.L. Gentry, Jr., R.J. Tyri and P.G. Risser. 1979. Endangered and threatened plants of Oklahoma. Department of Botany and Microbiology, Oklahoma State University, Stillwater. pp. 64.

# APPENDIX I / ANNEXE I
# LIST OF EXCLUDED SPECIES / LISTE DES TAXONS EXCLUS

A number of taxa which were on the original list of rare plants or were suggested for inclusion during this study have been excluded from the final list for the following reasons.

Un certain nombre de taxons qui figuraient sur la liste originale des plantes rares ou qu'on avait proposé d'y faire figurer au cours de la présente étude ont été exclus de la liste finale pour les raisons suivantes :

1. Plants that have been attributed to the flora in the literature but for which no herbarium specimens could be located. These taxa in particular should be sought in the Province, as they may occur here but have been overlooked thus far.

   Les plantes qui avaient été attribuées à la flore dans la littérature, mais pour lesquelles on n'a pu trouver aucun spécimen d'herbier. On devrait essayer de trouver ces taxons dans la province, étant donné qu'ils peuvent y exister, mais qu'on n'en a pas remarqué jusqu'à maintenant.

*Aconogonum phytolaccaefolium* (Meisner ex Small) Small ex Rydb.
*Agropyron scribneri* Vasey
*Anemone deltoidea* Hook.
*Astragalus bodinii* Sheldon
*Astragalus flexuosus* (Dougl. ex Hook.) G. Don
*Astralagus vexilliflexus* Sheldon
*Bromus suksdorfii* Vasey
*Campanula parryi* Gray
*Carex aboriginum* M.E. Jones
*Carex lacustris* Willd.
*Carex prionophylla* T. Holm
*Carex williamsii* Britt.
*Coptis occidentalis* (Nutt.) Torr. & Gray
*Cypripedium fasciculatum* Kell. ex S. Wats.
*Eleocharis elliptica* Kunth
*Floerkia proserpinacoides* Willd.
*Franseria albicaulis* Dougl. ex Griseb. in Hook.
*Hackelia arida* (Piper) Johnst.
*Halimolobos mollis* (Hook.) Rollins
*Juncus kelloggii* Engelm.
*Lemna gibba* L.
*Oxytropis koyukukensis* Welsh
*Phippsia algida* (Phipps) R.C. Ball
*Poa merrilliana* A. Hitchc.
*Ranunculus radiata* Small
*Ribes watsonianum* Koehne
*Rumex venosus* Pursh
*Salix tweedyi* (Bebb) C.R. Ball
*Saxifraga eschscholtzii* Sternb.
*Sparganium americanum* Nutt.
*Stellaria alaskana* Hultén
*Thlaspi montanum* L.
*Trifolium macrocephalum* (Pursh) Poir.

2. Plants that are more widespread or more common than previously believed.

   Les plantes qui sont plus répandues ou plus communes qu'on ne l'avait cru jusqu'alors.

*Agropyron yukonense* Scribn. & Merrill
*Amaranthus albus* L.
*Amaranthus powellii* S. Wats.
*Ambrosia chamissonis* (Less.) Greene
*Angelica lucida* L.
*Apocynum cannabinum* L.
*Arabis lemmonii* S. Wats.
*Arabis microphylla* Nutt. in Torr. & Gray
*Arabis sparsiflora* Nutt. in Torr. & Gray
*Arnica lessingii* Greene
*Artemisia lindleyana* Besser in Hook.
*Aspidotis densa* (Brakenr.) Lellinger
*Aster alpinus* L. subsp. *vierhapperi* Onno
*Athyrium destentifolium* Tausch ex Opiz
*Bistorta bistortoides* (Pursh) Small
*Botrychium boreale* Milde
*Brasenia schreberi* J.F. Gmelin in L.
*Braya humilis* (C.A. Meyer) B. Rob. in Gray
*Bromus ciliatus* L.
*Cardamine breweri* S. Wats. var. *obicularis* (Greene) Detling
*Carex anthoxanthea* K.B. Presl
*Carex backii* F. Boott in Hook.
*Carex bipartita* Bellardi ex All.
*Carex chordorrhiza* Ehrhart in L. f.
*Carex eburnea* F. Boott in Hook.
*Carex illota* Bailey
*Carex loliacea* L.
*Carex obtusata* Liljeblad
*Carex tenuiflora* Wahl.
*Carex unilateralis* Mackenz.
*Chamaerohodos erecta* (L.) Bunge in Ledeb.
*Cheilanthes gracillima* D.C. Eat.
*Chimaphila menziesii* (R. Br. ex D. Don) Spreng.
*Circaea alpina* L. subsp. *pacifica* (Ascherson & Magnus) Raven in Calder & Taylor
*Claytonia sarmentosa* C.A. Meyer
*Danthonia californica* Bolander
*Dodecatheon frigidum* Cham. & Schlecht.
*Draba paysonii* J.F. MacBride
*Dracocephalum parviflorum* Nutt.
*Dryopteris filix-mas* (L.) Schott
*Dryopteris fragrans* (L.) Schott
*Dulichium arundinaceum* (L.) Britt.
*Epilobium brevistylum* Barbey in Brewer & Watson
*Epilobium lactiflorum* Hausskn.
*Epilobium leptocarpum* Hausskn.
*Epilobium luteum* Pursh
*Erigeron divergens* Torr. & Gray
*Erigeron humilis* Graham
*Erigeron purpuratus* Greene
*Eriophyllum lanatum* (Pursh) Forbes
*Festuca baffinensis* Polunin

*Festuca viridula* Vasey
*Halenia deflexa* (J.E. Smith in Rees) Griseb.
*Hedysarum sulphurescens* Rydb.
*Isoetes echinospora* Durieu
*Juncus parryi* Engelm.
*Juncus supiniformis* Engelm.
*Kobresia simpliciuscula* (Wahlenb.) Mackenz.
*Ledum glandulosum* Nutt.
*Ledum palustre* L. subsp. *decumbens* (W. Ait.) Hultén
*Lewisia rediviva* Pursh
*Loiseleuria procumbens* (L.) Desvx.
*Lomatium martindalei* (Coulter & Rose) Coulter & Rose
*Lupinus arcticus* S. Wats. subsp. *canadensis* (C.P. Smith) Dunn
*Lupinus sulphurens* Dougl. ex Hook.
*Luzula arcuata* (Wahl.) Swartz
*Oemleria cerasiformis* (Hook. & Arn.) Landon
*Parnassia kotzebuei* Cham. in Spreng.
*Pellaea glabella* Mett. ex Kuhn var. *simplex* Butters
*Penstemon davidsonii* Greene
*Polemonium boreale* M.F. Adams
*Polemonium elegans* Greene
*Polemonium viscosum* Nutt.
*Polypodium hesperium* Maxon
*Potamogeton amplifolius* Tuckerman
*Potamogeton diversifolius* Raf.
*Potamogeton friesii* Rupr.
*Potamogeton pusillus* L.
*Pterospora andromedea* Nutt.
*Quercus garryana* Dougl. ex Hook.
*Ranunculus hyperboreus* Rottb.
*Romanzoffia sitchensis* Bong.
*Rubus leucodermis* Dougl. ex Torr. & Gray
*Salix alaxensis* Coville var. *longistylis* (Rydb.) Schneid.
*Salix lanata* L. var. *richardsonii* (Hook.) Skv.
*Salix stolonifera* Coville
*Salix vestita* Pursh
*Sanicula graveolens* Poep. ex DC.
*Scirpus paludosus* A. Nels.
*Selaginella sibirica* (Milde) Heironymus
*Spiraea pyramidata* Greene
*Subularia aquatica* L.
*Suksdorfia ranunculifolia* (Hook.) Engler in Prantl
*Suksdorfia violacea* Gray
*Tiarella laciniata* Hook.
*Vaccinium deliciosum* Piper
*Valeriana capitata* Pall. ex Link
*Viola langsdorfii* (Regel) Fischer in DC.
*Viola macloskeyi* J. Lloyd
*Viola selkirkii* Pursh ex Goldie

3. Plants that have nomenclatural problems or represent synonyms of other taxa.

Les plantes qui posent des problèmes de nomenclature ou dont les noms sont synonymes d'autres taxons.

*Castilleja brachyanthera* Rydb.
*Erigeron pallens* Cronq.
*Juncus conglomeratus* L.
*Luzula divaricata* S. Wats.
*Luzula tundricola* Gorodkov ex Vassiliev
*Oxytropis glutinosa* A.E. Porsild
*Primula maccalliana* Wieg.
*Ranunculus suksdorfii* Gray
*Saxifraga foliolosa* R. Br. in Parry

4. Plants re-identified as another taxon or of questionable identity. Taxon to which specimen has been re-identified is placed in ( ).

Les plantes qu'on a reclassées dans un autre taxon ou dont l'identité est douteuse. Le taxon dans lequel le spécimen a été reclassé est placé entre ( ).

*Cardamine integrifolia* (Greene) C. Hitchc. (*C. pulcherrima* Greene)
*Carex proposita* Mackenz. (?)
*Isoetes howellii* Engelm. (*I. nuttallii* A. Br.)
*Lesquerella ludoviciana* (Nutt.) S. Wats. (probably new species)
*Limosella subulata* Ives (*L. aquatica* L.)
*Perideridia oregana* (S. Wats.) Mathias (*P. gairdneri* (Hook. & Arn.) Mathias)
*Potamogeton diversifolius* Raf. (*P. oakesianus* Robbins)
*Saxifraga radiata* Small (material too young for positive identification)

5. Introduced plants.

Les plantes introduites.

*Astragalus trichopodus* (Nutt.) Gray
*Callitriche stagnalis* Scopoli
*Chenopodium chenopodioides* (L.) Aellen
*Chenopodium strictum* Roth
*Cyperus esculentus* L.
*Lepidium ramosissimum* A. Nels.
*Lepidium virginicum* L. var. *menziesii* (DC.) C. Hitchc.
*Lotus nevadensis* (S. Wats.) Gray
*Lupinus formosus* Greene
*Oenothera perennis* L.
*Scirpus setaceus* L.

# APPENDIX II / ANNEXE II
# RARE PLANTS IN TAXONOMIC SEQUENCE / PLANTES RARES DANS L'ORDRE TAXONOMIQUE

Families are arranged in alphabetical order within divisions or subdivisions. Genera and species are listed alphabetically under each family. Names in italics are synonyms.

Les familles sont réparties selon un ordre alphabétique dans les divisions ou sous-divisions. Les genres et espèces figurent également selon un ordre alphabétique dans chaque famille. Les noms en italique sont des synonymes.

Division: LYCOPODIOPHYTA

Isoetaceae

Isoetes bolanderi
Isoetes occidentalis
Isoetes nuttallii

Lycopodiaceae

Huperzia selago var. miyoshianum
*Lycopodium selago var. miyoshianum*

Selaginellaceae

Selaginella oregana

Division: POLYPODIOPHYTA

Adiantaceae

Adiantum capillus-veneris
Adiantum pedatum var. subpumilum
Cheilanthes feei
Cryptogramma stelleri
Pellaea atropurpurea
Pityrogramma triangularis

Aspleniaceae

Asplenium adulterinum
Cystopteris montana
Dryopteris arguta
Dryopteris cristata
Gymnocarpium jessoense subsp. parvulum
Polystichum braunii
Polystichum californicum
Polystichum imbricans
Polystichum kruckebergii
Polystichum lemmonii
Polystichum scopulinum
Polystichum setigerum
Woodsia alpina
Woodsia glabella
Woodsia ilvensis

Azollaceae

Azolla mexicana

Blechnaceae

Woodwardia fimbriata

Hymenophyllaceae

Mecodium wrightii

Marsileaceae

Marsilea vestita

Ophioglossaceae

Botrychium lanceolatum
*Botrychium lunaria subsp. minganense*
Botrychium minganense
Botrychium montanum
Botrychium paradoxum
Botrychium simplex
Ophioglossum vulgatum

Polypodiaceae

Polypodium amorphum
*Polypodium montense*
Polypodium scouleri
Polypodium virginianum

Thelypteridaceae

Thelypteris limbosperma
Thelypteris nevadensis

Division: PINOPHYTA

Pinaceae

Pinus banksiana
Pinus flexilis

Division: MAGNOLIOPHYTA

Subdivision: MAGNOLIATAE

Adoxaceae

Adoxa moschatellina

Anacardiaceae

Toxicodendron diversilobium

Apiaceae

Angelica dawsonii
Berula erecta
Bupleurum americanum
Caucalis microcarpa
Cicuta bulbifera
Cicuta mackenzieana
Daucus pusillus
Glehnia leiocarpa
*Glehnia littoralis subsp. leiocarpa*
Hydrocotyle ranunculoides
Hydrocotyle verticillata
Ligusticum calderi
Ligusticum canbyi
Ligusticum scoticum subsp. hultenii
Ligusticum verticillatum
Lilaeopsis occidentalis
Lomatium brandegei
Lomatium foeniculaceum
Lomatium sandbergii
Osmorhiza occidentalis
Perideridia gairdneri
Sanicula arctopoides
Sanicula bipinnatifida

Apocynaceae

Apocynum sibiricum

Asclepiadaceae

Asclepias ovalifolia

Asteraceae

Antennaria neglecta var. athabascensis
Arnica chamissonis subsp. incana
Arnica louiseana subsp. louiseana
Artemisia alaskana
Artemisia cana
Artemisia furcata var. heterophylla
*Artemisia heterophylla*
*Artemisia hyperborea*
Artemisia longifolia
Artemisia ludoviciana var. incompta
*Artemisia trifurcata*
Artemisia tripartita
Aster ascendens
*Aster canescens*
*Aster chiliensis var. ascendens*
Aster curtus
Aster paucicapitatus
Aster radulinus
Aster stenomeris
Balsamorhiza deltoidea
Bidens amplissima
Bidens beckii
Bidens frondosa
Bidens vulgata
Brickellia oblongifolia var. oblongifolia
*Cacaliopsis nardosmia*
Chaenactis alpina
Chaenactis douglasii var. montana
*Chrysanthemum arcticum*
*Chrysanthemum integrifolium*
Chrysothamnus viscidiflorus subsp. lanceolatus
Cirsium drummondii
Coreopsis atkinsoniana
Crepis modocensis
Crepis occidentalis subsp. pumila
Crocidium multicaule
Erigeron caespitosus
Erigeron compositus var. discoidea
Erigeron flagellaris
Erigeron grandiflorus
Erigeron lanatus
Erigeron liebergii

Erigeron poliospermus
Erigeron trifidus
Eupatorium maculatum var. bruneri
Euthamia graminifolia
Haplopappus bloomeri
Haplopappus carthamoides subsp. carthamoides
Helenium autumnale
Helianthella uniflora
Helianthus nuttallii
Heliopsis helanthoides
Iva axillaris subsp. robustior
Jaumea carnosa
Lasthenia minor subsp. maritima
Leucanthemum arcticum
Leucanthemum integrifolium
Luina nardosmia var. glabrata
Lygodesmia juncea
Machaeranthera canescens
Madia madioides
Madia minima
Microseris bigelovii
Microseris lindleyi
*Microseris linearifolia*
*Microseris troximoides*
Nothocalais troximoides
Prenanthes racemosa
Psilocarphus elatior
Psilocarphus tenellus
Saussurea americana
Saussurea angustifolia var. yukonensis
*Saussurea densa*
Saussurea nuda var. densa
*Saussurea viscida var. yukonensis*
Senecio atropurpureus
Senecio congestus
Senecio conterminus
*Senecio cymbalarioides subsp. moresbiensis*
Senecio elmeri
Senecio foetidus var. foetidus
Senecio foetidus var. hydrophiliodes
*Senecio fuscatus*
Senecio hydrophyllus
Senecio macounii
Senecio megacephalus
Senecio moresbiensis
Senecio newcombei
Senecio ogotorukensis
Senecio plattensis
Senecio pseudo-arnica
Senecio serra
Senecio sheldonensis
Senecio tundricola
Solidago gigantea var. serotina
*Solidago graminifolia*
Solidago nemoralis var. longipetiolata
Tanacetum bipinnatum subsp. huronense
*Tanacetum douglasii*
Tetradymia canescens
Townsendia exscapa
Townsendia hookeri
Townsendia parryi

Balsaminaceae

Impatiens aurella

Boraginaceae

Amsinckia lycopsoides
Amsinckia spectabilis
Cryptantha affinis
Cryptantha ambigua
Cryptantha celosioides
Cryptantha circumscissa
Cryptantha fendleri
Cryptantha intermedia
Cynoglossum grande
Hackelia deflexa
Hackelia diffusa
Hackelia floribunda
Hackelia micrantha
Lithospermum incisum
Mertensia maritima
Mertensia oblongifolia
Myosotis verna
Pectocarya linearis
Plagiobothrys figuratus
Plagiobothrys tenellus

Brassicaceae

*Arabidopsis salsuginea*
Arabis nuttallii
Athysanus pusillus
*Braya americana*
Braya purpurascens
Cardamine cordifolia
Cochlearia officinalis
Draba cinerea
Draba densifolia
Draba fladnizensis
Draba glabella
Draba hyperborea
Draba lactea
Draba lonchocarpa var. thompsonii
*Draba lonchocarpa var. kamtschatica*
Draba lonchocarpa var. vestita
Draba longipes
Draba macounii
Draba palanderianum
Draba porsildii
Draba reptans
Draba ruaxes
Draba stenopetala
Draba ventosa
Erysimum arenicola
Erysimum pallasii
Eutrema edwardsii
Halimolobos whitedii
*Hutchinsia procumbens*
Hymenolobus procumbens
Idahoa scapigera
Lepidium oxycarpum
Lesquerella arctica
Parrya nudicaulis
Smelowskia calycina
Smelowskia ovalis
Thellungiella salsuginea
Thelypodium laciniatum
*Thelypodium laciniatum var. milleflorum*
Thelypodium milleflorum
Thysanocarpus curvipes

Cactaceae

Opuntia polyacantha

Callitrichaceae

Callitriche anceps
Callitriche marginata

Campanulaceae

Campanula alaskana
Campanula aurita
Campanula scouleri
Campanula uniflora
Downingia elegans
Githopsis specularioides
Heterocodon rariflorum
Legousia perfoliata
Lobelia dortmanna
*Triodanis perfoliata*

Caprifoliaceae

Lonicera caerulea var. cauriana
Lonicera dioica
Lonicera hispidula
Symphoricarpos oreophilus
Viburnum opulus subsp. trilobum

Caryophyllaceae

Arenaria longipedunculata
*Arenaria pusilla*
Cerastium fischerianum
Cerastium nutans var. nutans
Minuartia dawsonensis
Minuartia nuttallii
Minuartia pusilla
Sagina intermedia
Silene drummondii
Silene involucrata
Silene repens
Silene taimyrensis
Silene uralensis subsp. attenuata
Spergularia macrotheca
Stellaria americana
Stellaria longipes var. edwardsii
Stellaria nitens
Stellaria obtusa
Stellaria umbellata

Celastraceae

Euonymus occidentalis

Ceratophyllaceae

Ceratophyllum echinatum

Chenopodiaceae

Atriplex alaskensis

Clusiaceae

Hypericum anagalloides
Hypericum formosum
Hypericum majus

Convolvulaceae

Calystegia soldanella
*Convolvulus soldanella*
*Cuscuta pentagona*
*Cuscuta salina*
Grammica pentagona
Grammica salina

Cornaceae

Cornus suecica

Crassulaceae

Crassula aquatica
Crassula erecta
*Tillaea aquatica*
*Tillaea erecta*

Cucurbitaceae

Echinocystis lobata
Marah oreganus

Diapensiaceae

Diapensia lapponica
*Diapensia obovata*

Elaeagnaceae

Shepherdia argentea

Elatinaceae

Elatine triandra

Ericaceae

Arctostaphylos columbiana
Cassiope lycopodioides
Gaultheria humifusa
Ledum palustre subsp. decumbens
Rhododendron lapponicum
Rhododendron macrophyllum
Vaccinium globulare
Vaccinium myrtillus

Fabaceae

Astragalus aboriginum
Astragalus adsurgens
Astragalus bourgovii
Astragalus collinus
Astragalus convallarius
Astragalus crassicarpus
Astragalus filipes
Astragalus lentiginosus
Astragalus lotiflorus
Astragalus microcystis
Astragalus nutzotinensis
Astragalus robbinsii
Astragalus sclerocarpus
Astragalus umbellatus
Glycyrrhiza lepidota
Hedysarum hedysaroides
Hedysarum occidentale
Lathyrus littoralis
Lathyrus palustris
Lotus formosissimus
Lotus micranthus
Lotus pinnatus
Lotus purshianus
Lupinus arbustus subsp. neolaxiflorus
Lupinus argenteus
Lupinus bicolor
Lupinus densiflorus
Lupinus kuschei
Lupinus lepidus
Lupinus leucophyllus
Lupinus littoralis
Lupinus minimus
Lupinus polycarpus
Lupinus rivularis
Lupinus vallicola
Lupinus wyethii
Oxytropis arctica
Oxytropis campestris var. jordalii
Oxytropis huddelsonii
*Oxytropis jordalii*
Oxytropis maydelliana
Oxytropis nigrescens
Oxytropis podocarpa
Oxytropis scammaniana
Oxytropis viscida
Psoralea physodes
Thermopsis montana
Thermopsis rhombifolia
Trifolium bifidum
Trifolium cyathiferum
Trifolium depauperatum
Trifolium macraei
Trifolium microcephalum
Trifolium microdon
Trifolium oliganthum
Trifolium tridentatum
Trifolium variegatum

Fumariaceae

Corydalis scouleri
Dicentra uniflora

Gentianaceae

Centaurium exaltatum
Centaurium muhlenbergii
Gentiana affinis
Gentiana calycosa
Gentiana platypetala
Gentiana prostrata
*Gentiana tenella*
Gentianella crinita
Gentianella tenella
Lomatogonium rotatum
Swertia perennis

Grossulariaceae

*Ribes cognatum*
Ribes howellii
Ribes lobbii
Ribes montigenum
Ribes oxycanthoides subsp. cognatum

Haloragaceae

*Myriophyllum elatinoides*
Myriophyllum farwellii
Myriophyllum hippuroides
Myriophyllum quitense
Myriophyllum ussuriense

Hippuridaceae

Hippuris tetraphylla

Hydrophyllaceae

Hydrophyllum fendleri
Hydrophyllum tenuipes
Nemophila breviflora
Nemophila pedunculata
Phacelia franklinii
Phacelia lyallii
Phacelia mollis
Romanzoffia tracyi

Lamiaceae

Agastache urticifolia
Lycopus asper
*Monarda fistulosa*
Monarda menthifolia
Physostegia parviflora
Satureja douglasii
Scutellaria angustifolia
Scutellaria lateriflora
Stachys mexicana

Lentibulariaceae

Pinguicula villosa
Pinguicula vulgaris subsp. macroceras
Utricularia gibba

Limnanthaceae

Limnanthes macounii

Loasaceae

Mentzelia albicaulis

Lythraceae

Ammannia coccinea
Lythrum alatum
Rotala ramosior

Malvaceae

Iliamna rivularis
Sidalcea hendersonii
Sidalcea oregona
Sphaeralcea coccinea
Sphaeralcea munroana

Molluginaceae

Mollugo verticillata

Monotropaceae

Allotropa virgata
Hemitomes congestum

Myricaceae

Myrica californica

Nyctaginaceae

Abronia latifolia
Abronia umbellata subsp. acutalata

Nymphaeaceae

Nymphaea tetragona

Oleaceae

Fraxinus latifolia

Onagraceae

Boisduvalia densiflora
Boisduvalia glabella
Boisduvalia stricta
Camissonia andina
Camissonia breviflora
Camissonia contorta
Clarkia amoena
Clarkia pulchella
Clarkia rhomboidea
Epilobium davuricum
Epilobium glaberrimum subsp. fastigiatum
*Epilobium glandulosum var. macounii*
Epilobium halleanum
Epilobium hornemannii subsp. behringianum
Epilobium leptophyllum
Epilobium mirabile
Epilobium oregonense
Gaura coccinea
Gayophytum humile
Gayophytum ramosissimum
Ludwigia palustris
*Oenothera andina*
*Oenothera breviflora*
*Oenothera contorta*
*Oenothera depressa*
Oenothera pallida
*Oenothera strigosa*
Oenothera villosa

Orobanchaceae

Boschniakia hookeri
Boschniakia rossica
Orobanche californica
Orobanche corymbosa
Orobanche pinorum

Oxalidaceae

Oxalis oregana

Papaveraceae

Meconella oregana
Papaver alboroseum
Papaver macounii
Papaver pygmaeum

Plantaginaceae

Plantago bigelovii
Plantago canescens
Plantago elongata
Plantago eriopoda
Plantago macrocarpa
Plantago tweedyi

Plumbaginaceae

Armeria maritima

Polemoniaceae

Collomia heterophylla
*Gilia aggregata*
Gilia capitata
*Gilia minutiflora*
Gilia sinuata
Ipomopsis aggregata
Ipomopsis minutiflora
Leptodactylon pungens
Linanthus bicolor
Linanthus harknessii
Linanthus septentrionalis
Navarretia intertexta
Navarretia squarrosa
Phlox alyssifolia
Phlox caespitosa
Phlox hoodii
Phlox longifolia
Phlox speciosa
Polemonium micranthum

Polygalaceae

Polygala senega

Polygonaceae

Eriogonum ovalifolium var. nivale
Eriogonum pauciflorum var. pauciflorum
Eriogonum pyrolifolium var. coryphaeum
Eriogonum strictum
Koenigia islandica
Polygonum austiniae
Polygonum engelmannii
Polygonum erectum
Polygonum kelloggii
Polygonum majus
Polygonum nuttallii
Polygonum paronychia
Polygonum ramosissimum
Rumex paucifolius

Portulacaceae

Calandrinia ciliata
Calyptridium umbellatum
Claytonia cordifolia
Claytonia megarhiza
Claytonia saxosa
Claytonia spathulata
Claytonia tuberosa
Lewisia columbiana
Lewisia pygmaea
Lewisia triphylla
Lewisia tweedyi
Montia bostockii
Montia dichotoma
Montia diffusa
Montia fontana subsp. variabilis
Montia howellii
*Spraguea umbellata*
Talinum okanoganense
Talinum spinescens

Primulaceae

Anagallis minima
Androsace chamaejasme
*Androsace lehmanniana*
Androsace occidentalis
*Armeria maritima*
*Centunculus minimus*
Dodecatheon conjugens
Dodecatheon dentatum
Dodecatheon hendersonii
Douglasia gormanii
Douglasia laevigata
Douglasia montana
Primula cuneifolia subsp. saxifragifolia
Primula egaliksensis
Primula incana
Primula mistassinica
Primula stricta
Samolus valerandi

Pyrolaceae

Pyrola dentata
Pyrola elliptica
Pyrola grandiflora

Ranunculaceae

Anemone canadensis
Anemone piperi
Anemone riparia
*Caltha biflora*
Caltha leptosepala var. biflora
Caltha natans
Cimicifuga elata
Delphinium bicolor
Delphinium burkei
Delphinium depauperatum
Isopyrum savilei
Myosurus aristatus
Myosurus minimus
Ranunculus alismifolius
Ranunculus californicus
Ranunculus cardiophyllus
*Ranunculus eschscholtzii var. suksdorfii*
Ranunculus eximus
Ranunculus grayi
Ranunculus inamoenus
Ranunculus lobbii
Ranunculus pedatifidus
Ranunculus pygmaeus
Ranunculus rhomboideus
Ranunculus sulphureus
Ranunculus verecundus
Thalictrum dasycarpum

Rhamnaceae

Rhamnus alnifolius

Rosaceae

Agrimonia gryposepala
Agrimonia striata
Aphanes occidentalis
Geum calthifolium
Geum rossii
Geum schofieldii
Physocarpus malvaceus
Potentilla biennis
Potentilla biflora
Potentilla elegans
Potentilla flabellifolia
Potentilla hippiana
Potentilla hookeriana
Potentilla hyparctica
Potentilla multifida
Potentilla ovina
Potentilla paradoxa
Potentilla quinquefolia
Potentilla rivalis
Rosa arkansana
Rubus arcticus subsp. stellatus
Rubus lasiococcus
Rubus nivalis
*Rubus stellatus*
*Spiraea beauverdiana var. stevenii*
Spiraea densiflora
Spiraea stevenii

Rubiaceae

Galium bifolium
Galium cymosum
Galium labradoricum

Salicaceae

Salix amygdaloides
Salix athabascensis
Salix geyeriana
*Salix gracilis*
Salix petiolaris
Salix planifolia subsp. pulchra
Salix raupii
Salix reticulata subsp. glabellicarpa
Salix serissima
Salix sessilifolia
Salix setchelliana

Santalaceae

Comandra umbellata subsp. californica

Sarraceniaceae

Sarracenia purpurea

Saxifragaceae

Elmera racemosa
Heuchera richardsonii
Lithophragma tenellum
Mitella caulescens
Saxifraga flagellaris
Saxifraga hieracifolia
Saxifraga hirculus
Saxifraga reflexa
Saxifraga serpyllifolia
Saxifraga taylori

Scrophulariaceae

Besseya wyomingensis
Castilleja applegatei
Castilleja cervina
Castilleja cusickii
Castilleja elmeri
Castilleja exilis
Castilleja gracillima
Castilleja hyetophila
Castilleja hyperborea
Castilleja levisecta
Castilleja occidentalis
Castilleja raupii
Castilleja rhexifolia
Castilleja rupicola
Castilleja sulphurea
Castilleja thompsonii
Euphrasia arctica
Gratiola ebracteata
Gratiola neglecta
Limosella aquatica
Linaria candensis var. texana
Lindernia anagallidea
Mimulus alsinoides
Mimulus breviflorus
Mimulus breweri
Mimulus dentatus
Mimulus floribundus
Orthocarpus attenuatus
Orthocarpus bracteosus
Orthocarpus castillejoides
Orthocarpus faucibarbatus
Orthocarpus hispidus
Orthocarpus imbricatus
Orthocarpus pusillus
Orthocarpus tenuifolius
Pedicularis contorta
Pedicularis lanata
Pedicularis macrodonta
Pedicularis oederi
Pedicularis parviflora
Pedicularis verticillata
Penstemon albertinus
Penstemon attenuatus
Penstemon cusickii
Penstemon eriantherus
Penstemon gormanii
Penstemon gracilis
Penstemon lyallii
Penstemon montanus
Penstemon nemorosus
Penstemon nitidus
Penstemon ovatus
Penstemon pruinosus
Penstemon richardsonii
Scrophularia californica
Tonella tenella
Veronica catenata
Veronica cusickii

Solanaceae

Nicotiana attenuata
Solanum triflorum

Valerianaceae

Plectritis macrocera
Valeriana edulis
Valeriana scouleri
*Valeriana sitchensis var. scouleri*

Verbenaceae

Verbena bracteata
Verbena hastata

Violaceae

Viola biflora subsp. carlottae
Viola epipsila subsp. repens
Viola howellii
Viola maccabieana
Viola septentrionalis

Subdivision: Liliatae

Alismataceae

Sagittaria latifolia

Cyperaceae

Carex amplifolia
Carex arenicola
Carex bicolor
Carex bigelowii
Carex brevicaulis
*Carex breweri*
Carex circinata
Carex crawei
Carex comosa
Carex enanderi
Carex engelmannii
Carex feta
Carex franklinii
Carex geyeri
Carex glacialis
Carex glareosa
Carex gmelinii
Carex hendersonii
Carex heleonastes
Carex hystericina
*Carex incurviformis*
Carex inops
Carex interrupta
Carex krausei
Carex lapponica
Carex limnophila
Carex luzulina var. ablata
Carex macrocephala
Carex maritima
Carex membranacea
Carex microglochin
Carex misandra
Carex paysonis
Carex peckii
Carex pendunculata
*Carex pensylvanica*
Carex petricosa
Carex praeceptorum
Carex prairea
Carex raynoldsii
Carex rupestris
Carex sartwellii

Carex scopulorum var. bracteosa
Carex simulata
Carex sprengelii
Carex supina subsp. spaniocarpa
Carex sychnocephala
Carex tenera
Carex tonsa
Carex trisperma
Carex vulpinoidea
Cyperus aristatus
Cyperus erythrorhizos
Eleocharis atropurpurea
Eleocharis kamtschatica
Eleocharis parvula
Eleocharis quinqueflora
Eleocharis rostellata
Eriophorum callitrix
Hemicarpa micrantha
Kobresia sibirica
Scirpus cernuus
Scirpus fluviatilis
Scirpus olneyi
Scirpus pallidus
*Scirpus pumilus*
Trichophorum pumilum

Hydrocharitaceae

Elodea nuttallii

Iridaceae

Iris missouriensis
Iris setosa subsp. setosa
Sisyrinchium californicum
Sisyrinchium douglasii
Sisyrinchium inflatum

Juncaceae

Juncus articus subsp. alaskanus
Juncus biglumis
Juncus bolanderi
Juncus bulbosus
Juncus covillei
Juncus leseurii
Juncus oxymeris
Juncus regelii
Juncus stygius subsp. americanus
*Juncus supinus*
Juncus torreyi
Juncus tracyi
Juncus triglumis
*Luzula arctica*
Luzula confusa
Luzula groenlandica
Luzula nivalis
Luzula rufescens

Juncaginaceae

Triglochin concinnum

Lemnaceae

Wolffia borealis
*Wolffia punctata*

Lilaeaceae

Lilaea scilloides

Liliaceae

Allium acuminatum
Allium amplectens
Allium crenulatum
Allium geyeri var. tenerum
Allium validum
Brodiaea coronaria
*Brodiaea douglasii*
*Brodiaea grandiflora*
*Brodiaea howellii*
*Brodiaea hyacinthina*
Calochortus apiculatus
Calochortus lyallii
Camassia leichtlinii
Camassia quamash
Disporum smithii
Erythronium montanum
Erythronium oregonum
Erythronium revolutum
Lilium philadelphicum
Lloydia serotina
Tofieldia coccinea
Trillium ovatum f. hibbersonii
Triteleia grandiflora
Triteleia howellii
Triteleia hyacinthina
Xerophyllum tenax

Orchidaceae

Cephalanthera austinae
Cypripedium calceolus
Cypripedium montanum
Cypripedium passerinum
*Eburophyton austinae*
Epipactis gigantea
*Habenaria chorisiana*
*Habenaria greenei*
*Habenaria unalascensis subsp. maritima*
Hammarbya paludosa
Liparis loeselii
Malaxis monophyllos var. monophyllos
Malaxis monophyllos var. diphyllos
*Malaxis paludosa*
Platanthera chorisiana
Platanthera unalascensis subsp. maritima

Poaceae

Agrostis diegoensis
Agrostis microphylla
Agrostis pallens
Alopecurus alpinus subsp. alpinus
Alopecurus carolinianus
Arctophila fulva
Avenochloa hookeri
Bouteloua gracilis
Bromus canadensis
Bromus suksdorfii
Calamagrostis crassiglumis
Calamagrostis montanensis
Calamagrostis stricta
Calamovilfa longifolia
Catabrosa aquatica
Danthonia sericea
Deschampsia danthonioides
Deschampsia flexuosa
Elymus sibiricus
*Festuca microstachys*
Festuca subuliflora
Glyceria leptostachya
Hordeum depressum
Leersia oryzoides
Melica harfordii
Melica spectabilis
Muhlenbergia filiformis
Muhlenbergia glomerata
Oryzopsis canadensis
Oryzopsis micrantha
Panicum capillare
Panicum thermale
Phragmites australis
Pleuropogon refractus
Poa abbreviata
Poa confinis
Poa douglasii subsp. macrantha
Poa howellii
Poa kelloggii
Poa laxiflora
*Poa macrantha*
Poa marcida
Poa pattersonii
Poa suksdorfii
Poa tracyi
Polypogon interruptus
Puccinellia interior
Puccinellia lemmonii
Schizachyrium scoparium
Sphenopholis obtusata
Sporobolus airoides
Stipa lemmonnii
Stipa spartea
Torreyochloa pallida
Vulpia microstachys

Pontederiaceae

Heteranthera dubia

Potamogetonaceae

Potamogeton illinoensis
Potamogeton oakesianus
Potamogeton obtusifolius
Potamogeton perfoliatus
Potamogeton strictifolius

Sparganiaceae

Sparganium fluctuans
Sparganium glomeratum
Sparganium hyperboreum

Zannichelliaceae

Zannichellia palustris

Zosteraceae

Phyllospadix torreyi

## DISTRIBUTION MAPS / CARTES DE RÉPARTITION

The following maps showing distribution of rare plants of British Columbia have been restricted to those plants that are rated as R1 or R2 as discussed in the Introduction.

Les cartes suivantes montrant la répartition des plantes rares de la Colombie-Britannique se limitent aux plantes classées dans les catégories R1 ou R2 telles que présentées dans l'introduction.

**Abronia umbellata subsp. acutalata**

**Adiantum capillus-veneris**

**Adiantum pedatum var. subpumilum**

**Agastache urticifolia**

**Agrimonia gryposepala**

**Agrostis pallens**

**Allium amplectens**

**Allium crenulatum**

**Allium geyeri var. tenerum**

Allium validum

Alopecurus alpinus
subsp. alpinus

Alopecurus carolinianus

Ammania coccinea

Amsinckia spectabilis

Anagallis minima

Androsace chamaejasme

Anemone canadensis

Anemone piperi

Anemone riparia

Antennaria neglecta
var. athabascensis

Apocynum sibiricum

Arabis nuttallii

Arenaria longipedunculata

Arnica louiseana subsp. louiseana

Artemisia alaskana

Artemisia cana

Artemisia furcata var. heterophylla

Artemisia longifolia

Artemisia ludoviciana var. incompta

Asclepias ovalifolia

Asplenium adulterinum

Aster ascendens

Aster curtus

Aster paucicapitatus

Aster radulinus

Astragalus bourgovii

Astragalus convallarius

Astragalus crassicarpus

Astragalus filipes

Astragalus lentiginosus

Astragalus microcystis

Astragalus nutzotinensis

Astragalus sclerocarpus

Astragalus umbellatus

Atriplex alaskensis

**Avenochloa hookeri**

**Azolla mexicana**

**Balsamorhiza deltoidea**

**Berula erecta**

**Besseya wyomingensis**

**Bidens beckii**

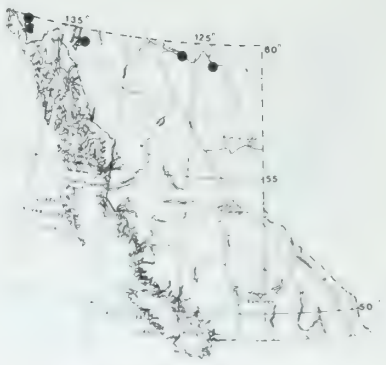
**Bidens vulgata**

**Boisduvalia densiflora**

**Boisduvalia glabella**

**Boisduvalia stricta**

**Boschniakia hookeri**




**Boschniakia rossica**

Botrychium minganense

Botrychium montanum

Botrychium paradoxum

Botrychium simplex

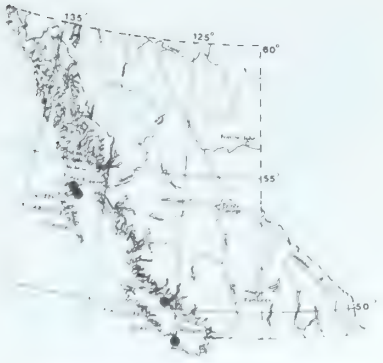
Bouteloua gracilis

Braya purpurascens

Brickellia oblongifolia
var. oblongifolia

Bromus suksdorfii

Bupleurum americanum



Calamagrostis crassiglumis

Calamovilfa longifolia

Callitriche anceps

**Callitriche marginata**

**Calochortus lyallii**

**Calyptridium umbellatum**

**Camissonia andina**

**Camissonia breviflora**

**Camissonia contorta**

**Carex amplifolia**

**Carex arenicola**

**Carex bicolor**

**Carex comosa**

**Carex crawei**

**Carex franklinii**

Carex geyeri

Carex glacialis

Carex glareosa

Carex gmelinii

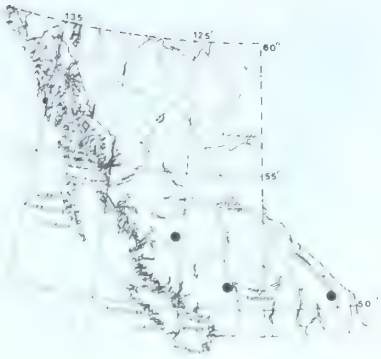
Carex heleonastes

Carex interrupta

Carex krausei

Carex lapponica

Carex limnophila

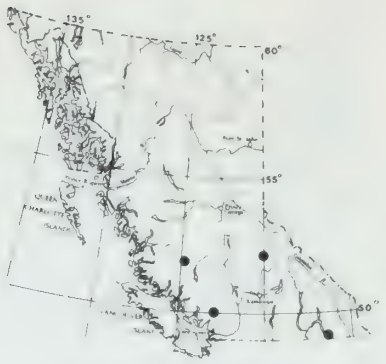


Carex maritima

Carex paysonis

Carex pedunculata

Carex petricosa




Carex praeceptorum

Carex prairea

Carex simulata

Carex sprengelii

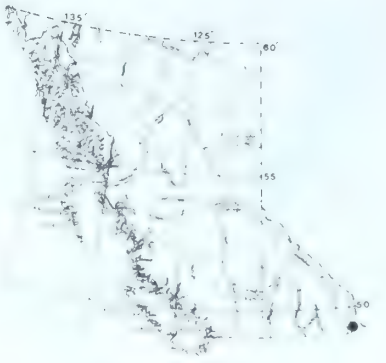
Carex sychnocephala

Carex tenera

Carex tonsa

Carex vulpinoidea

Castilleja applegatei




Castilleja exilis

Castilleja hyetophila

Castilleja hyperborea

Castilleja levisecta

Catabrosa aquatica

Caucalis microcarpa

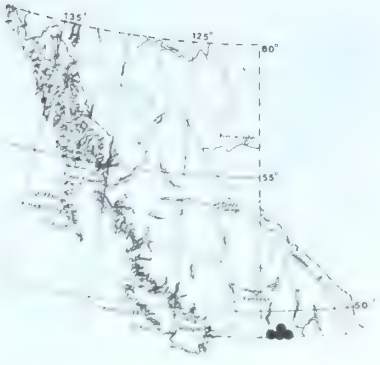
Centaurium exaltatum

Centaurium muhlenbergii

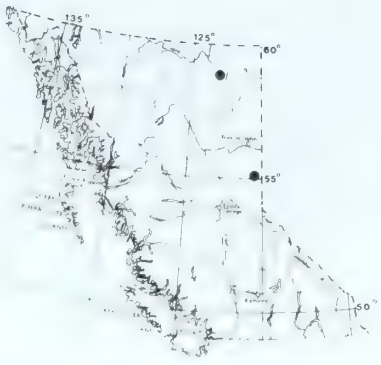
Cephalanthera austinae

Cerastium fischerianum

Chaenactis alpina




Chrysothamnus viscidiflorus

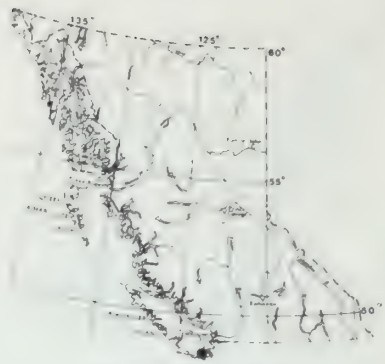



Cicuta mackenzieana

Cimicifuga elata

Cirsium drummondii

Clarkia rhomboidea



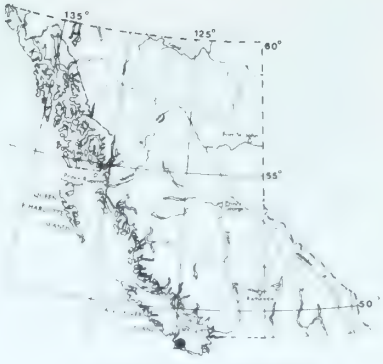

Claytonia saxosa

Claytonia spathulata

Claytonia tuberosa

Coreopsis atkinsoniana

Cornus suecica




Corydalis scouleri

Crassula erecta

Crepis modocensis

Crepis occidentalis
subsp. pumila

Cryptantha ambigua

Cryptantha celosioides

Cryptantha circumscissa

Cryptantha fendleri

Cryptantha intermedia

Cynoglossum grande

Cyperus aristatus

Cyperus erythrorhizos

Danthonia sericea

Delphinium bicolor

Delphinium burkei

Delphinium depauperatum

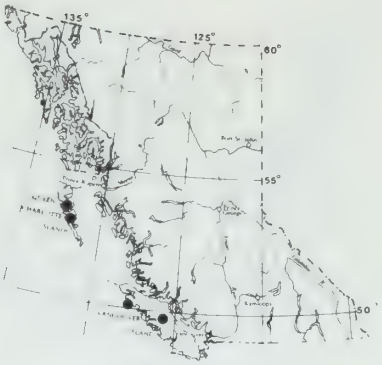
Deschampsia flexuosa

**Diapensia lapponica**

**Dicentra uniflora**

**Disporum smithii**

**Douglasia gormanii**




**Douglasia laevigata**

**Douglasia montana**

**Downingia elegans**

**Draba cinerea**

**Draba densifolia**

**Draba fladnizensis**

**Draba glabella**

**Draba lonchocarpa var. thompsonii**

Draba lonchocarpa var. vestita

Draba palanderiana

Draba porsildii

Draba reptans

Draba ruaxes

Draba stenopetala

Draba ventosa

Dryopteris arguta

Dryopteris cristata

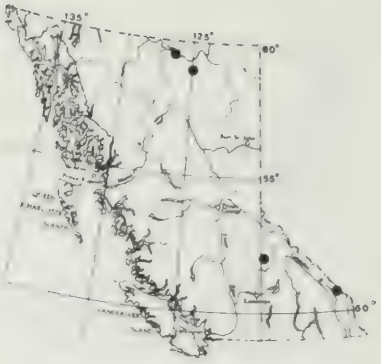
Echinocystis lobata

Elatine triandra

Eleocharis atropurpurea

Eleocharis kamtschatica

Eleocharis parvula



Eleocharis quinqueflora

Eleocharis rostellata

Elmera racemosa

Elodea nuttallii

Elymus sibiricus

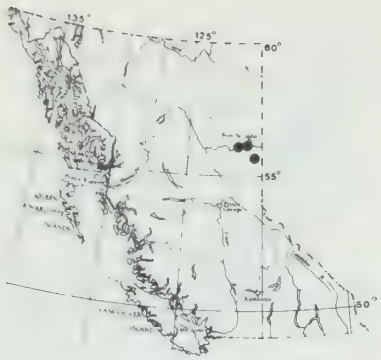
Epilobium davuricum

Epilobium hornemannii subsp. behringianum

Epilobium mirabile

Epilobium oregonense

Epipactis gigantea



Erigeron caespitosus

Erigeron compositus
var. discoideus

Erigeron lanatus

Erigeron leibergii

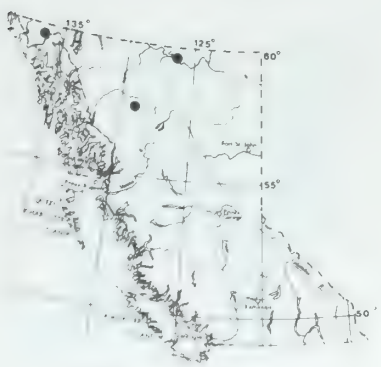
Erigeron poliospermus

Erigeron trifidus

Eriogonum pauciflorum
var. pauciflorum

Eriogonum pyrolifolium
var. coryphaeum

Eriogonum strictum



Eriophorum callitrix

Erysimum arenicola

Erysimum pallasii

Erythronium montanum

Euonymus occidentalis

Eupatorium maculatum var. bruneri

Euphrasia arctica

Fraxinus latifolia

Galium labradoricum

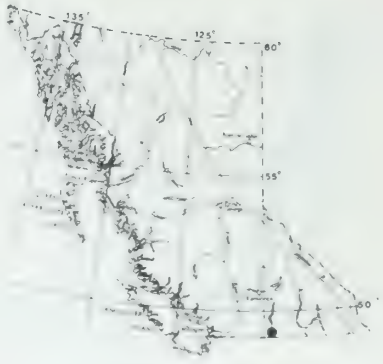
Gaura coccinea

Gayophytum humile

Gentianella crinita

Geum rossii

Geum schofieldii



Gilia sinuata

Githopsis specularioides

Glyceria leptostachya

Glycyrrhiza lepidota

Grammica pentagona

Gratiola neglecta

Gymnocarpium jessoense subsp. parvulum

Halimolobos whitedii

Hammarbya paludosa

Haplopappus bloomeri

Haplopappus carthamoides subsp. carthamoides

Hedysarum hedysaroides

Hedysarum occidentale

**Helenium autumnale**

**Heliopsis helianthoides**

**Hemicarpha micrantha**

**Heterocodon rariflorum**

**Hydrocotyle ranunculoides**

**Hydrocotyle verticillata**

**Hydrophyllum tenuipes**

**Hymenolobus procumbens**

**Hypericum majas**

**Impatiens aurelia**

**Ipomopsis minutiflora**

**Iris missouriensis**

Iris setosa subsp. setosa

Isoetes bolanderi

Isoetes occidentalis

Jaumea carnosa

Juncus arcticus
subsp. alaskanus

Juncus biglumis

Juncus bolanderi

Juncus bulbosus

Juncus oxymeris

Juncus stygius
subsp. americanus

Juncus traceyi

Juncus triglumis

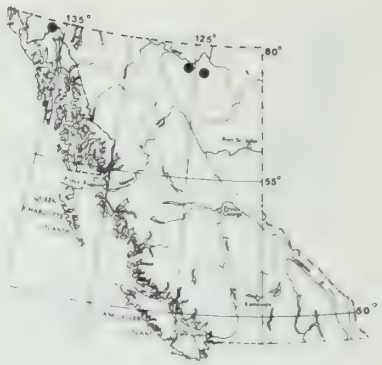
Kobresia siberica

Lasthenia minor
subsp. maritima

Lathyrus littoralis

Lepidium oxycarpum

Leptodactylon pungens



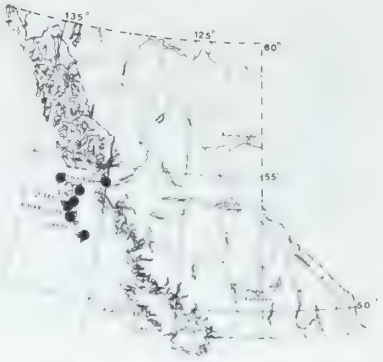

Lesquerella arctica

Leucanthemum arcticum

Leucanthemum integrifolium

Lewisia triphylla

Lewisia tweedyi




Ligusticum scoticum
subsp. hultenii

Ligusticum verticillatum

Lilaea scilloides

Limnanthes macounii

Linanthus bicolor

Linanthus harknessii

Linanthus septentrionalis

Lindernia anagallidea

Liparis loeselii

Lomatium brandegei

Lomatium foeniculaceum

Lomatium sandbergii

Lomatogonium rotatum

Lonicera caerulea
var. cauriana

**Lotus formosissimus**

**Lotus pinnatus**

**Lotus purshianus**

**Luina nardosmia var. glabrata**

**Lupinus arbustus subsp. neolaxiflorus**

**Lupinus argenteus**

**Lupinus densiflorus**

**Lupinus kuschei**

**Lupinus lepidus**

**Lupinus leucophyllus**

**Lupinus minimus**

**Lupinus polycarpus**

Lupinus rivularis

Lupinus vallicola

Lupinus wyethii

Luzula confusa

Luzula groenlandica

Luzula nivalis

Luzula rufescens

Lygodesmia juncea

Lythrum alatum

Madia minima

Malaxis monophyllos
var. monophyllos

Malaxis monophyllos
var. diphyllos

**Marah oreganus**

**Marsilea vestita**

**Mecodium wrightii**

**Meconella oregana**

**Melica harfordii**

**Mertensia maritima**

**Mertensia oblongifolia**

**Microseris bigelovii**

**Microseris lindleyi**

**Mimulus breweri**

**Mimulus dentatus**

**Minuartia pusilla**

**Mitella caulescens**

**Mollugo verticillata**

**Montia bostockii**

**Montia dichotoma**

**Montia diffusa**

**Montia howellii**

**Muhlenbergia filiformis**

**Myosurus aristatus**

**Myrica californica**

**Myriophyllum farwellii**

**Myriophyllum hippuroides**

**Myriophyllum quitense**

**Myriophyllum ussuriense**

**Navarretia intertexta**

**Nemophila breviflora**

**Nemophila pedunculata**

**Nicotiana attenuata**

**Nymphaea tetragona**

**Oenothera pallida**

**Ophioglossum vulgatum**

**Orobanche corymbosa**

**Orobanche pinorum**

**Orthocarpus bracteosus**

**Orthocarpus castillejoides**

Orthocarpus faucibarbatus

Orthocarpus hispidus

Orthocarpus imbricatus

Oryzopsis canadensis

Oxalis oregana

Oxytropis arctica

Oxytropis campestris
var. jordalii

Oxytropis huddelsonii

Oxytropis maydelliana

Oxytropis scammaniana

Panicum thermale

Papaver alboroseum

Papaver macounii

Papaver pygmaeum

Parrya nudicaulis

Pectocarya linearis

Pedicularis contorta

Pedicularis macrodonta

Pellaea atropurpurea

Penstemon cusickii

Penstemon gracilis

Penstemon montanus

Penstemon nitidus

Phacelia mollis

**Phlox alyssifolia**

**Phlox hoodii**

**Phlox speciosa**

**Phragmites australis**

**Pinus banksiana**

**Pinus flexilis**

**Plagiobothrys figuratus**

**Plagiobothrys tenellus**

**Plantago canescens**

**Plantago tweedyi**

**Platanthera unalascensis subsp. maritima**

**Pleuropogon refractus**

**Poa abbreviata**

**Poa howellii**

**Poa kelloggii**

**Poa laxiflora**

**Poa pattersonii**

**Poa suksdorfii**

**Poa tracyi**

**Polygala senega**

**Polygonum austiniae**

**Polygonum engelmannii**

**Polygonum erectum**

**Polygonum kelloggii**

Polygonum majus

Polygonum ramosissimum

Polypodium virginianum

Polypogon interruptus

Polystichum californicum

Polystichum imbricans

Polystichum kruckebergii

Polystichum lemmonii

Polystichum scopulinum

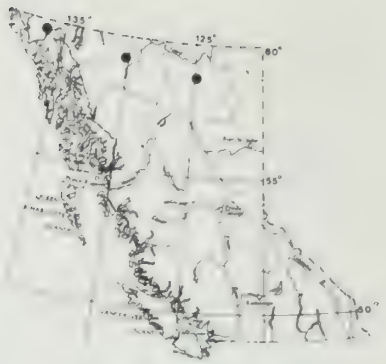
Polystichum setigerum

Potamogeton oakesianus

Potamogeton obtusifolius

Potamogeton perfoliatus

Potamogeton strictifolius



Potentilla elegans

Potentilla multifida

Potentilla ovina

Potentilla paradoxa

Prenanthes racemosa

Primula cuneifolia
subsp. saxifragifolia

Primula mistassinica

Primula stricta

Psilocarphus elatior

Psilocarphus tenellus

Psoralea physodes

Puccinellia interior

Puccinellia lemmonii

Ranunculus alismifolius

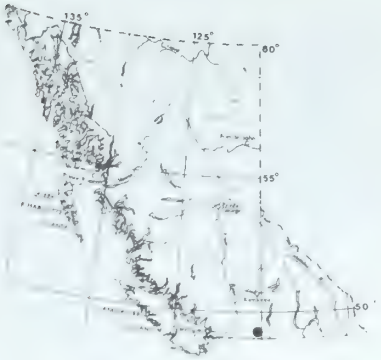
Ranunculus californicus

Ranunculus cardiophyllus

Ranunculus eximus

Ranunculus inamoenus

Ranunculus lobbii



Ranunculus pedatifidus

Ranunculus rhomboideus

Ranunculus sulphureus

Rhododendron macrophyllum

Ribes montigenum

Ribes oxycanthoides subsp. cognatum

Rotala ramosior

Rubus lasiococcus

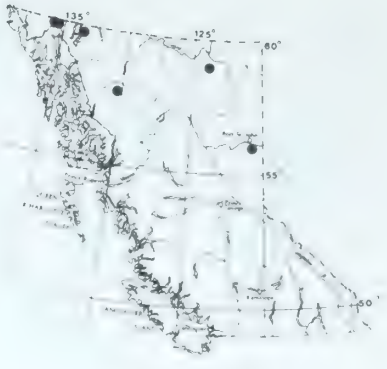
Rubus nivalis

Sagina intermedia

Salix amygdaloides

Salix geyeriana

Salix petiolaris



Salix planifolia subsp. pulchra

Salix raupii

**Salix reticulata subsp. glabellicarpa**

**Salix serissima**

**Salix setchelliana**

**Samolus velerandi**

**Sanicula arctopoides**

**Sanicula bipinnatifida**

**Sarracenia purpurea**

**Saussurea angustifolia var. yukonensis**

**Saxifraga flagellaris**

**Saxifraga hieracifolia**

**Saxifraga hirculus**

**Saxifraga serpyllifolia**

Schizachyrium scoparium

Scirpus fluviatilis

Scirpus olneyi

Scirpus pallidus

Scutellaria angustifolia

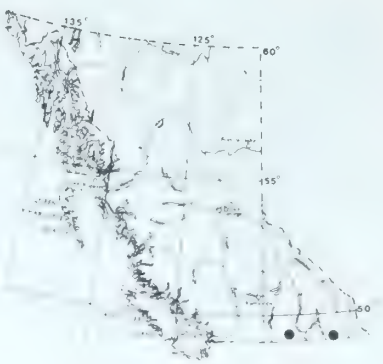
Selaginella oregana

Senecio atropurpureus

Senecio congestus

Senecio conterminus

Senecio foetidus
var. foetidus




Senecio foetidus
var. hydrophiloides

Senecio hydrophilus

Senecio moresbiensis

Senecio ogotorukensis

Senecio plattensis

Senecio pseudo-arnica

Senecio serra

Senecio tundricola

Shepherdia argentea

Sidalcea hendersonii

Sidalcea oregana

Silene involucrata

Sisyrinchium inflatum

Smelowskia calycina

Smelowskia ovalis

Solidago gigantea
var. serotina

Solidago nemoralis
var. longipetiolata

Sparganium fluctuans

Sparganium glomeratum

Spergularia macrotheca

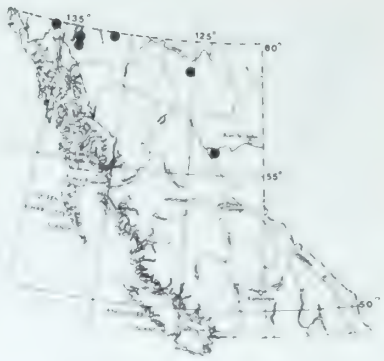
Sphaeralcea coccinea

Sphaeralcea munroana

Spiraea stevenii

Sporobolus airoides

Stellaria americana




Stellaria longipes
var. edwardsii

**Stellaria umbellata**

**Stipa lemmonii**

**Swertia perennis**

**Talinum okanoganense**

**Talinum spinescens**

**Thalictrum dasycarpum**

**Thellungiella salsuginea**

**Thelypodium laciniatum**

**Thelypodium milleflorum**

**Thelypteris nevadensis**

**Thermopsis montana**

**Thermopsis rhombifolia**

Thysanocarpus curvipes

Tonella tenella

Torreyochloa pallida

Townsendia exscapa

Townsendia hookeri

Townsendia parryi

Toxicodendron diversilobum

Trichophorum pumilum

Trifolium bifidum

Trifolium cyathiferum

Trifolium depauperatum

Trifolium macraei

Triglochin concinnum

Trillium ovatum
f. hibbersonii

Triteleia howellii

Utricularia gibba

Vaccinium myrtillus

Valeriana edulis

Veronica catenata

Veronica cusickii

Viburnum opulus
subsp. trilobum

Viola biflora
subsp. carlottae

Viola howellii

Viola maccabeiana

**Vulpia microstachys**

**Wolffia borealis**

**Woodsia alpina**

**Woodwardia fimbriata**

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