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Plants of West-Central Montana— Identification and Ecology: Annotated Checklist

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THE AUTHOR

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The cover illustration of the bitterroot (*Lewisia rediviva*), first described from our area by explorers Lewis and Clark, was donated by artist Deborah McNeil of the small community of Yaak, MT.

FOREWORD

The passage of the National Environmental Protection Act (1969), the Endangered Species Act (1973), the National Forest Management Act (1976), and related legislation has emphasized the need for detailed inventories of natural resources on National Forests and other public lands. National Forests in the Western United States are composed of diverse natural vegetation, virtually all of which will be affected by management decisions. Knowledge of the distributions and ecological characteristics of all species in a National Forest would be useful for land management and planning, but this information is not readily available.

A few years ago the opportunity arose to develop such information for vegetation in a major river drainage in western Montana. Botanist Klaus Lackschewitz had collected intensively for 20 years throughout the Bitterroot River drainage and the adjacent Missoula Valley and volunteered to develop an annotated checklist, a key for species identification, and ecological descriptions for all species of vascular plants. Personnel of the Intermountain Research Station and Northern Region of the Forest Service saw an opportunity to present this useful information to resource managers, foresters, wildlife biologists, soils scientists, other natural resource specialists, and planners. Its publication would also serve as excellent documentation for biological scientists, and it would be useful to ranchers, horticulturists, amateur botanists, and others.

The first installment of this detailed information is presented here as an annotated checklist of the vascular plants of west-central Montana. The checklist provides scientific and common names, abundance, habitat relationships, and geographic distributions. Occurrence of each species is listed in relation to "habitat type," a site classification widely used in forest and rangelands of the Western United States. The habitat type system is an ecological classification of the land based upon potential natural vegetation. The habitat type on a given site is named for the plant association or "potential vegetation type," representing the end point of succession. Habitat types have been mapped on many National Forest areas, including the Bitterroot and Lolo National Forests encompassed in this report.

The second part of this effort (in preparation) will contain an illustrated key to each species and brief descriptions of each plant's distinctive ecological relations and morphological features. We hope that these publications will not only prove valuable for science, resource management, and education in and near western Montana, but that they will serve as a guide for preparation of similar information in other regions.

Stephen F. Arno, Fire Effects Unit
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Plants of West-Central Montana—Identification and Ecology: Annotated Checklist

Klaus Lackschewitz

THE SETTING

This report lists the distribution and habitat relationships of more than 1,500 species (taxa) of plants found in the Bitterroot River drainage and adjacent small watersheds in the vicinity of Missoula in west-central Montana (fig. 1). This area consists of about 3,000 square miles and includes all of Ravalli County and part of Missoula County. About two-thirds of this land area lies within the Bitterroot and Lolo National Forests. It is located between lat. 45°27' to 47°6' N. and long. 113°31' to 114°31' W. To facilitate presentation of information about species distribution, the study area is divided into seven geographic subdivisions (fig. 1).

The study area consists of a large mountain valley extending 70 miles southward from Missoula (elevation 3,200 ft; 975 m), surrounded by high, forested mountain ranges. The crest of the Bitterroot Mountains forms the western and southern boundaries of the area, the Continental Divide forms a portion of the southeastern boundary, and the crest of the Sapphire Range forms the eastern boundary. The crest of the Rattlesnake/Jocko Mountains serves as the extreme northern boundary. The high ridges and peaks generally exceed 7,000 ft (2,130 m) in elevation, and numerous summits in the Bitterroot Range surpass 9,000 ft (2,740 m), sufficient for development of an alpine zone above the limit of erect trees. Conversely, the lower portions of the major valleys are near or below the lower limits of the coniferous forest (Arno and Hammerly 1984).

The Bitterroot and Missoula Valleys of west-central Montana and their surrounding mountain ranges experience an inland mountain climate moderated considerably by the intrusion of air masses originating over the northern Pacific Ocean. As the Pacific air masses push eastward (inland), they are forced to rise over the Cascade Range and the mountains of northern Idaho, releasing much of their moisture in these areas. Thus, west-central Montana lies in a rain shadow that is often dominated by "dried out" Pacific air. Missoula, Stevensville, and Hamilton in the valley bottoms receive an average of only 13 inches (33 cm) of precipitation annually, although cloudiness is prevalent and relative humidity is moderately high except in the warm, dry summer months of July and August. Autumn is cool and relatively dry. Winters are consistently cold and rather moist. During most winters there are occasional, usually short periods when extremely cold (subzero Fahrenheit) continental polar air masses dominate. This arctic air enters from the north and east. Winter snowfall is moderate at lower elevations, but very substantial in the subalpine zone, where snow



Figure 1—Outline map of the geographic subdivisions within the study area. See text for detailed descriptions of the subdivisions.

depth reaches 5 to 10 ft (1.5 to 3 m) in April. Spring is usually cool and moist, with numerous rain showers in May and June. At lower elevations these are the months receiving the greatest precipitation.

Microclimate is greatly influenced by the mountainous topography, resulting in diverse environments for vegetation. For instance, the mean temperature of the warmest month (July) is 65 to 68 °F (19 to 20 °C) at major valley stations from Missoula (elevation 3,200 ft; 975 m) to Darby (3,880 ft; 1,183 m). But the July mean is only about 50 °F (10 °C) in the alpine zone atop Saint Mary Peak (9,365 ft; 2,927 m) west of Stevensville and about 53 °F (12 °C) in the timberline zone at the 8,000-ft (2,440-m) elevation (Arno and Habeck 1972). Not only is

the growing season at high elevations much cooler, it is also only about half as long as in the valleys. Conversely, precipitation increases with elevation, with the timberline zone receiving an average annual precipitation of perhaps 40 to 50 inches (100 to 130 cm) in the western part of the study area and 30 to 40 inches (75 to 100 cm) in the eastern portion. The effectiveness of this precipitation in supporting moist-site vegetation is reduced by the abundance of rockland and coarse stony soils.

The microclimate on steep south-facing slopes is much warmer and drier than that on north-facing slopes at a given elevation, and this dramatically affects vegetation. Also, wind-exposed ridgetops support desiccation-tolerant vegetation in contrast to the bottoms of mountain canyons, which support moist-site species including disjunct populations of Pacific Coast maritime plants. Mountain canyons often serve as collection areas for cold air drainage in which high mountain plants extend to unusually low elevations.

In the Tertiary Period, the Bitterroot and Clark Fork river valleys were deeply filled with alluvial material; during the Pleistocene this was partially covered with till from large alpine glaciers in the surrounding mountains. During the Pleistocene, until about 12,000 years ago, Glacial Lake Missoula inundated the valleys up to an elevation of 4,350 ft (1,326 m) (Alt and Hyndman 1986). The lake alternately drained and refilled at least 36 times as its ice dam, a lobe of the continental glacier, alternately washed out and redeveloped. The fillings were to varying depths and are marked by shorelines of different elevations. Extensive layers of glacial lake sediments, notably silts, were added to the valleys during this period. Today, alluvial soils of different depths and qualities cover the bottomlands, terraces, and lower slopes.

The major valleys are primarily devoted to small farms and ranches, rural communities, and small cities. As of 1986 about 95,000 people live in the area, about 70,000 of them in the Missoula vicinity. Much of the farm and pasture land is irrigated with snow-melt water diverted from mountain streams. Since the 1870's, irrigation and subirrigation has increased the valley land area suitable for moist-site vegetation, and has resulted in some downslope spread of mountain plants along ditches. The higher mountains exhibit rugged features characteristic of alpine glaciation, although only the Bitterroot Range, from Lolo Creek to the West Fork of the Bitterroot River, was heavily sculptured, with a succession of parallel glacial troughs emptying eastward into the Bitterroot Valley.

Vegetative zonation in west-central Montana is illustrated schematically in figure 2. The zones of potential climax vegetation or habitat types (Pfister and others 1977; Mueggler and Stewart 1980) begin with bottomland ponderosa pine (*Pinus ponderosa* var. *ponderosa*) and broadleaf (*Populus* spp., etc.) communities on moist sites in the major valleys. Dry sites in the major valleys represent bunchgrass habitat types (*Agropyron*, *Festuca*) or ponderosa pine/bunchgrass habitat types. Substantial amounts of the major valley habitat have lost their native vegetation and are being used as pasture or for urban or rural develop-

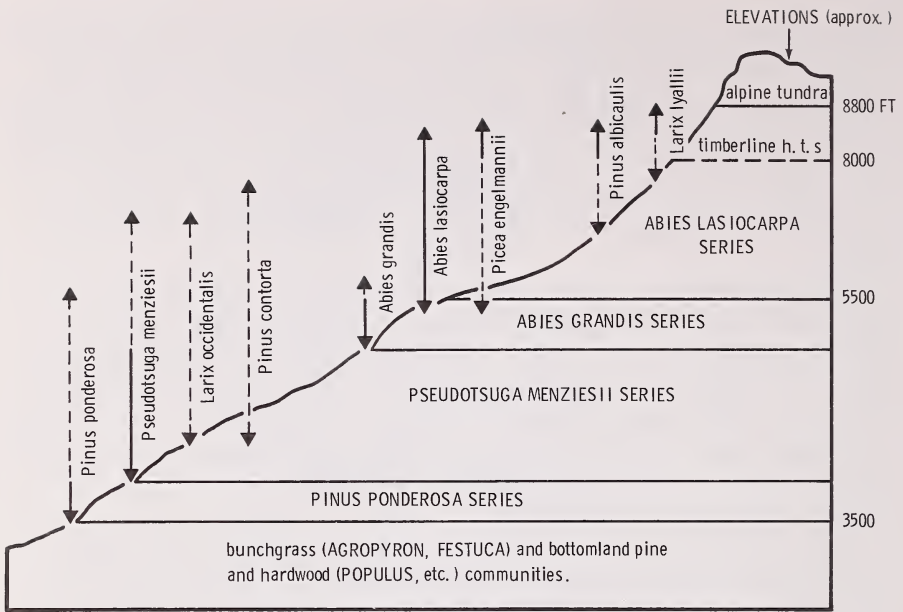


Figure 2—Typical distribution of forest trees in west-central Montana. Arrows show the relative elevational range of each species; solid portion of the arrow indicates where a species is the potential climax and dashed portion shows where it is seral. (Modified from Arno 1979.)

ments. Most of the mountain landscape lies within forest habitat types where Douglas-fir (*Pseudotsuga menziesii* var. *glauca*), grand fir (*Abies grandis*), or subalpine fir (*Abies lasiocarpa*) represent the potential climax, and native vegetation predominates. Extensive stands of seral lodgepole pine (*Pinus contorta* var. *latifolia*) cover the broad slopes at middle and upper elevations. Most lower elevation and many midelevation forests have been logged, starting in the late 1800's, but native tree and undergrowth species have regenerated.

Although geology varies substantially among the mountain ranges (Ross and others 1955), its effect on vegetation is subtle and largely unknown, unlike some mountainous areas farther east in the Rockies in more continental climates (Pfister and others 1977). In the mountains north of Missoula (geographic area N in fig. 1), the main drainage, Rattlesnake Creek, flows through a glaciated valley and has carved a course through different layers of rock, exposed in many places. These are mostly strata of the Missoula Group of Precambrian sedimentary layers with differently colored argillites and quartzites, but one broad band of Precambrian limestone is also evident in the lower part of the drainage. The higher ridges and peaks in this area reach elevations of 7,200 to 8,600 ft (2,200 to 2,620 m) and are covered by timberline vegetation.

The Sapphire Mountains (geographic areas NE and SE in fig. 1) border the east side of the Bitterroot Valley. These mountains rise up gradually via broad gentle slopes, but south of Stevensville several high

summits attain elevations between 8,000 and 9,000 ft (2,400 and 2,740 m). Skalkaho Pass (7,258 ft; 2,213 m) on the Sapphire crest (at the junction of areas NE and SE) is crossed by Montana Route 38, which is snow-plowed open each year in June. Extensive moist meadows occur within the subalpine forest south of Skalkaho Pass. In contrast, the lowest slopes of the Sapphire Range east of Darby are some of the driest habitats in west-central Montana, since they lie in a rain shadow caused by the highest peaks in the Bitterroot Range.

The geology of the Sapphire Mountains is complex (Ross and others 1955). Starting in the vicinity of Missoula and proceeding southward, first we find assorted Tertiary valley fill sediments, then Precambrian sedimentary rocks, especially quartzites and argillites. Some limestone appears near Miller Creek. From Three Mile Creek southward to Ambrose Creek, granitic rocks dominate, followed by Precambrian quartzite and siliceous shale. From the latitudes of Victor to Corvallis, a wide stretch of Precambrian limestone appears. From Willow Creek to Sleeping Child Creek, the parent rock is again granite, with a few small areas having rock of volcanic origin, mostly rhyolite. Sleeping Child Hot Springs is located in one such place.

In the upper Bitterroot River drainage (geographic area S in fig. 1), the mountains are rugged and heavily forested. The parent rock is divided into expanses of granite and Precambrian Belt Series sedimentary layers with occasional interruptions by volcanic rock masses. Historically, considerable prospecting and mining activity occurred in the contact areas between rock masses. Hot springs appear in three locations.

The eastern slope of the heavily glaciated Bitterroot Range (geographic areas SW and NW in fig. 1) rises spectacularly above the west side of the Bitterroot Valley. This escarpment is a fault block at the eastern edge of the granitic mass known as the Idaho batholith. This block of rugged, glacially sculptured granite extends nearly 70 mi (113 km) from Lolo Peak (in the north) to Nez Perce Pass above the West Fork of the Bitterroot River. Some 46 peaks in this range exceed 9,000 ft (2,740 m) in elevation, and thus support alpine vegetation. Twenty-nine of these peaks are concentrated in a 15-mi (24-km) segment west of Darby. Forest Service maps show about 140 small lakes and ponds, mostly in glacial cirques and in the deeply gouged valleys below them. The rocks in the greater part of the range belong to the Bitterroot lobe of the Idaho batholith, which was emplaced during late Cretaceous time. The batholith is composed of faintly gneissic granite rocks. The mountains north of Big Creek consist of high grade metamorphic rocks, mostly gneiss and schist, locally penetrated by granitic rocks (Ross and others 1955).

Generally, soils in the Bitterroot Range are very shallow and stony (skeletal). A moderate degree of soil horizon development occurs locally, generally at lower elevations. Continuous sods have developed only in small areas of the timberline and alpine zones. More often, *Carex nigricans* and other species form a sod locally in moist subalpine basins. In rocky, nonforested areas at high elevation, most vegetation

appears in cracks and crevices and in fellfield-like situations. Soils developed from the Idaho batholith granites are strongly acidic.

The Lolo Creek and O'Brien Creek drainages, including the Blue Mountain area, make up geographic unit WNW (fig. 1). This area is characterized by mountains of modest height, with few summits reaching 7,000 ft (2,130 m) in elevation. The Lolo Creek valley provides a major low-elevation route up to the Bitterroot/Clearwater River divide at 5,200-ft (1,585-m) Lolo Pass. Highway U.S. 12 follows the general route of explorers Lewis and Clark up Lolo Creek to the pass. Immediately west of the pass lies the moist inland-maritime forest of the Clearwater River drainage, in northern Idaho, where Pacific Coast conifers are abundant. These include western redcedar (*Thuja plicata*), grand fir, Pacific yew (*Taxus brevifolia*), western white pine (*Pinus monticola*), and mountain hemlock (*Tsuga mertensiana*). Little of this maritime vegetation extends eastward into the Lolo Creek drainage or elsewhere into west-central Montana (Arno 1979).

From the Lolo Creek valley north to the Clark Fork River, most of the country is underlain by layers of the Precambrian Belt sedimentary rocks. These rocks surface also on Mormon Peak and the northeastern tip of the Bitterroot Range. In the vicinity of Lolo Hot Springs a distinctive granitic intrusion is known as the Lolo batholith.

Although it has a relatively mild, Pacific-influenced climate, this region's forests are generally drier than those of either northwestern Montana or adjacent northern Idaho (Arno 1979). Thus, west-central Montana has only small amounts of Pacific Coast forest species such as western redcedar, western white pine, Pacific yew, *Clintonia uniflora*, *Adenocaulon bicolor*, and *Tiarella trifoliata*, and these species are largely restricted to moist canyon-bottom sites or seepage areas. Some of these small populations may be remnants of extensive distributions that occurred during a wetter climatic period. Grand fir is locally common, but is much less abundant than it is farther west. West-central Montana is, however, characterized by an abundance of intermountain forest species, which become rare farther east. These include western larch (*Larix occidentalis*), alpine larch (*Larix lyallii*), Pacific ponderosa pine (var. *ponderosa*), *Xerophyllum tenax*, *Menziesia ferruginea*, and *Luzula hitchcockii*.

Prior to 1900, fires were very frequent at lower and middle elevations (Arno 1980), with the result that seral fire-resistant and fire-initiated species (trees, shrubs, and herbs) were abundant. For instance, open parklike stands of fire-resistant ponderosa pine occupied much of the zone in which Douglas-fir represents the potential climax (Gruell and others 1982). On north-facing slopes and at middle elevations fire-initiated forests were made up largely of seral western larch (in the northern half of the area) and lodgepole pine. Fire suppression since the early 1900's has allowed the more shade-tolerant, potentially climax species to increase in abundance. Forest managers are attempting to again stimulate seral tree and shrub species through silviculture and prescribed burning.

Thus, the mountainous landscape of west-central Montana supports a complex mosaic of vegetative communities. Macroclimatic differences are represented in the elevation-related zonation pattern (fig. 2). Microclimate also has a pronounced effect related to the rugged topography. Edaphic effects are superimposed upon those of climate and microclimate; these include patterns of talus or exposed bedrock sites among those with residual soils or alluvial deposits. Disturbance patterns related to fire, snow avalanches, grazing, logging, or land development add a successional dimension to the site mosaic. This site and disturbance mosaic results in diverse vegetation.

FLORA

In this area of west-central Montana, 1,536 taxonomic entities (taxa) have been collected. These include 1,441 species and 95 well-defined varieties, representing 480 genera and 103 families. Introduced species total 240; these are most numerous in the populated valleys. In contrast, in the timberline and alpine zones only one introduced species was found—common dandelion (*Taraxacum officinale*). Although this list is the result of considerable investigation, users may well find additional species in the study area; I would appreciate being informed of such discoveries.

Of the 12 species strictly endemic to the State of Montana, four occur in our study area. These are:

<i>Arabis fecunda</i> Rollins	Known only on the west slope of the Sapphire Range
<i>Draba daviesii</i> (C.L. Hitchc.) Rollins	Restricted to the Bitterroot Mountains
<i>Lesquerella humilis</i> Rollins	Restricted to the Bitterroot Mountains
<i>Saxifraga tempestiva</i> Elvander & Denton	Endemic in western Montana

The vegetation of the Bitterroot Mountains differs markedly from that of other mountain ranges in Montana. In addition to the two endemics mentioned, 18 species occur in Montana only in these mountains:

<i>Agrostis borealis</i>	<i>Lewisia columbiana</i>
<i>Allium acuminatum</i>	<i>Luetkea pectinata</i>
<i>A. parvum</i>	<i>Lomatium bicolor</i>
<i>A. simillimum</i>	<i>Penstemon flavescens</i>
<i>Castilleja covilleana</i>	<i>P. payettensis</i>
<i>Erigeron evermannii</i>	<i>Polystichum scopulinum</i>
<i>Eupatorium occidentale</i>	<i>Synthyris missourica</i>
<i>Idahoia scapigera</i>	<i>Saxifraga tolmiei</i>
<i>Linanthes nuttallii</i>	<i>Sedum debile</i>

The main distributions of these species lie to the west of Montana. In fact, the vegetation of the Bitterroot Mountains is similar to that of the Cascade Mountains of Washington and Oregon in several respects: an abundance of plants of the heath family (Ericaceae), the dominance of *Carex nigricans* in moist sites at high elevations, and the appearance at and above timberline of two tall herbaceous plants, *Angelica roseana* and *Polygonum phytolaccaefolium*.

Seven species common and widespread in Montana mountain ranges, including the Sapphire Range, could not be found in the Bitterroot Mountains. These are: *Agropyron latiglume*, *Poa alpina*, *Anemone multifida*, *Oxytropis* (all species), *Bupleurum americanum*, *Androsace septentrionalis*, and *Viola canadensis*.

EXPLANATION OF TERMS USED IN THE CHECKLIST

Species are grouped by division, and divisions are organized phylogenetically, with the more primitive plants first. Thus the nonflowering plants (clubmosses, horsetails, ferns, and conifers) are placed first followed by dicots (broad-leaved plants) and monocots (grasses, sedges, lilies, etc.). Within divisions, species are arranged alphabetically by family, genus, and species. Scientific names follow the nomenclature of "Flora of the Pacific Northwest" by Hitchcock and Cronquist (1973). A small number of species in the checklist are not found in Hitchcock and Cronquist, and references must be sought in the recent literature or a flora of the eastern United States such as "Manual of Vascular Plants of Northeastern United States and Canada" by Gleason and Cronquist (1963). Scientific names which have widespread use but are considered incorrect by Hitchcock and Cronquist (synonyms) are placed in brackets and follow the accepted name. Each scientific name (taxon) is followed by a common name, most of which are also taken from "Flora of the Pacific Northwest." A species preceded by an asterisk (*) is considered introduced. Introduced species are thought to have been absent on the North American continent before the arrival of Europeans in the 15th century.

Each taxon is followed by a series of symbols that provide information regarding the species' occurrence in west-central Montana. These annotations are arranged in four columns and provide information concerning abundance, habitat moisture, vegetation zones, and geographic distribution.

Abundance

Symbol

- R Rare. One to three collections of the species have been made in the study area. Rare species are not likely to be encountered even in the appropriate habitats.
- I Infrequent. Known from scattered occurrences, generally in a restricted part of the study area. This designation is used liberally, often for introduced species which might be

Symbol

- known from only one location but have the ability to become established easily and reproduce prolifically. Infrequent species are encountered occasionally in the appropriate habitats and geographic zones.
- C Common. Abundant in many places and likely to be encountered in appropriate habitats throughout the study area.
- LC Locally Common. The number of occurrences is limited, and these species are encountered infrequently but are abundant where they are found.

Habitat Moisture

Symbol

- Aq Aquatic. Habitat remains flooded during all or most of the growing season, for example ponds and sloughs.
- H Hydric. Habitat has abundant moisture during all or most of the growing season and may be flooded early in the season. Examples are streambanks, lake shores, and bogs.
- M Mesic. Adequate moisture throughout all or most of the growing season but rarely or never flooded, for example meadows or moist forests.
- X Xeric. Habitat is dry throughout most of the growing season. Examples are well-drained upland sites on sun-exposed aspects. At lower elevations these sites are often occupied by prairie or ponderosa pine forests.
- MX Meso-xeric. Water relations are intermediate between mesic and xeric sites. Habitats with abundant moisture early in the growing season but becoming dry later on are included. Examples are snowdrift sites, vernal ponds, and Douglas-fir forests.

Species occurring over a range of moisture regimes are indicated by symbols for the two extremes of their tolerance separated by a dash (-). For example, "H-MX" indicates a species is found in hydric, mesic, and meso-xeric habitats.

Vegetation Zones

The vegetational zone information is subdivided into eight columns, each representing one of the following zones. An "x" following a species in a column indicates that this plant occurs sparingly in that zone. An "X" indicates that the species is common. The relationship of these zones to Pfister and others' (1977) habitat types is illustrated in figure 3.

Major Valley—Includes the lower elevations in the valleys of the Bitterroot and Clark Fork Rivers and their major tributaries, ranging

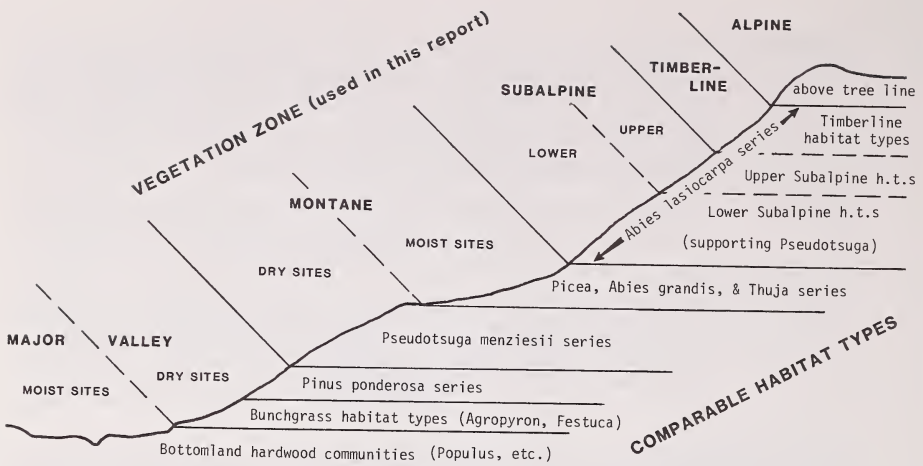


Figure 3—General distribution of vegetation zones in west-central Montana and the relationship of these zones to the Montana habitat type classifications (Pfister and others 1977; Mueggler and Stewart 1980), based on the potential climax dominant tree species.

from about 3,100 to 4,000 ft (945 to 1,220 m) in elevation in the north and from 3,500 to 4,500 ft (1,070 to 1,370 m) in the area extending south from Hamilton. Moist sites (column 1) are aquatic, hydric, and mesic habitats consisting mainly of bottomland pine and hardwood communities, subirrigated meadows, marshes, and sloughs. Dry sites (column 2) consist of semiarid grasslands, shrublands (shrub steppe), and the *Pinus ponderosa* series (potential climax) of Pfister and others (1977).

Montane—On warm aspects (south and west) this belt of lower elevation mountain forests and mountain grasslands commonly extends as high as 6,000 ft (1,830 m); on cool aspects it descends to 3,500 ft (1,070 m). Dry sites (column 3) support the *Pseudotsuga menziesii* series and mountain grasslands. Moist sites (column 4) include the moist north exposures and lower portions of canyons that support the *Abies grandis* and the less common *Picea* and *Thuja* series (Pfister and others 1977) as well as riparian vegetation.

Subalpine—The middle to upper elevation forest in which *Abies lasiocarpa* is the potential climax species. Limited areas of moist meadow and dry grassland occur also. The lower subalpine (column 5) is occupied by seral *Pseudotsuga*, accompanied in the north by *Larix occidentalis* (Pfister and others 1977). The lower subalpine usually extends upward to about 7,000 ft (2,130 m), and on cool exposures it often descends to 5,000 ft (1,520 m). The upper subalpine (column 6),

between about 7,000 and 8,000 ft (2,130 and 2,440 m), is too cold for *Pseudotsuga*, and generally supports seral *Pinus albicaulis*.

Timberline—The forest-alpine transition zone (column 7) above the limit of contiguous forests, where tree growth is patchy and *Abies lasiocarpa* is stunted or wind-deformed. Stands of *Pinus albicaulis*, *Larix lyallii*, and stunted *Abies lasiocarpa* interspersed with rockland communities and meadows are characteristic.

Alpine—Consists of tundra, fellfields, and other rockland communities (column 8) above the limit of trees, generally about 9,000 ft (2,740 m). Small patches of shrublike trees (krummholz) are often present.

Geographic Distribution

The distribution of each taxon is listed by subdivisions of the study area (fig. 1) in which that species has been collected or observed. Because of insufficient information, however, the entire range of a given species in west-central Montana may not be indicated by this listing.

Symbol	
N	The Missoula Valley, including the city of Missoula and the entire drainage of Rattlesnake Creek north of the city.
WNW	The Lolo Creek and O'Brien Creek drainages in the Bitterroot Mountains west of the town of Lolo.
NW	The Bitterroot Mountains in Montana and the west side of the Bitterroot Valley from Lolo Peak south to Lost Horse Creek.
SW	The Bitterroot Mountains in Montana and the west side of the Bitterroot Valley from Lost Horse Creek south to the West Fork of the Bitterroot River.
S	The mountainous area in Montana south of the East and West Forks of the Bitterroot River to the Continental Divide.
SE	The southern portion of the Sapphire Mountains drained by the Bitterroot River and the east side of the Bitterroot Valley from Skalkaho Creek south to the East Fork of the Bitterroot River.
NE	The northern portion of the Sapphire Mountains drained by the Bitterroot River and the east side of the Bitterroot Valley north of Skalkaho Creek.
Widespread	The species has been found in many geographic regions and could occur throughout the study area.

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DIVISION LYCOPODIOPHYTA, CLUBMOSSES AND ALLIES

Zones

		Abundance	Habitat Moisture	Valley-moist Valley-dry Montane-dry Montane-moist L. Subalpine U. Subalpine Timberline Alpine	Geographic Distribution
ISOETACEAE Quillwort Family					
ISOETES L.: quillwort					
I. BOLANDERI Engelm.	Bolander's quillwort	LC	Aq	- - - - x x -	NW,SW
I. ECHINOSPORA Dur.	bristle-like quillwort	I	Aq	- - - x x - - -	NW,N
I. HOWELLII Engelm.	Howell's quillwort	I	Aq	- - - - - x - -	NW
LYCOPODIACEAE Clubmoss Family					
LYCOPODIUM L.: clubmoss					
L. ANNOTINUM L.	stiff clubmoss	LC	M	- - - x x - - -	widespread
L. CLAVATUM L.	elk moss	I	M	- - - x x - - -	WNW,NW
L. COMPLANATUM L.	ground cedar	R	M	- - - x x - - -	WNW
L. SELAGO L.	fir clubmoss	I	M	- - - - x x x -	NW,SW
L. SITCHENSE Rupr.	Alaskan clubmoss	R	M	- - - - x x - -	NW,SW
SELAGINELLACEAE Lesser Clubmoss Family					
SEGLAGINELLA Beauv.: lesser clubmoss					
S. DENSA Rydb. v. DENSA	compact clubmoss	I	MX-X	- x x - x x x -	widespread
S. DENSA Rydb. v. SCOPULORUM (Maxon) Tryon	compact clubmoss	C	MX-X	- X X - x x X X	widespread
S. WALLACEI Hieron	Wallace's lesser clubmoss	LC	M-MX	- - - x x x - -	N,WNW,NW

DIVISION SPHENOPHYTA, HORSETAILS

EQUISETACEAE
Horsetail family

EQUISETUM L.: horsetail, scouring-rush

E. ARVENSE L.	common horsetail	C	H-M	X - x X x x x -	widespread
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Zones

EQUISETACEAE: continued

	Abundance	Habitat Moisture	Valley-moist Valley-dry Montane-dry Montane-moist L. Subalpine U. Subalpine Timberline Alpine	Geographic Distribution
E. X FERRISSII Clute Ferris' horsetail	I	H-M	x - - - - -	NW
E. FLUVIATILE L. swamp horsetail	R-I	H	x - - x x - - -	NNW,NW
E. HYEMALE L. common scouring rush	C	H-M	X - - X - - - -	widespread
E. LAEVIGATUM A. Br. smooth scouring rush	C	H-M	X - - - - -	widespread
E. X. NELSONII (A.A. Eat.) Schaffn. Nelson's scouring rush	R	H-M	x - - - - -	NW
E. SCIRPOIDES Michx. sedgelike horsetail	R	M	- - - - x - - -	NE
E. SYLVATICUM L. wood horsetail	R	H-M	- - - - x - - -	WNW
E. VARIEGATUM Schleich. variegated horsetail	I	H-M	x - - - x x - -	NE,SE

DIVISION PTEROPHYTA, FERNS AND FERN ALLIES

MARSILEACEAE
Pepperwort Family

MARSILEA L.: pepperwort

M. VESTITA Hook. & Grev.	I	Aq	x - - - - -	NW
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OPHIOGLOSSACEAE
Adder's-tongue Family

BOTRYCHIUM Sw.: grape-fern, moonwort

B. LUNARIA (L.) Swartz moonwort	R	M	- - - - x - - -	NE
B. MULTIFIDUM (Gmel.) Trevis evergreen grapefern	I	M	x - - x x - - -	WNW,NW,N
B. SIMPLEX E. Hitchc. little grapefern	R	M	- - - - - x - -	NW,N
B. VIRGINIANUM (L.) Swartz Virginia grapefern	I	M	- - x x x - - -	NW,SW,N

		Zones										
POLYPODIACEAE Common Fern Family		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
ADIANTUM L.: maidenhair fern												
A. PEDATUM L.	maidenhair fern	I	M	-	-	-	-	x	x	-	-	NW,SW,N
ASPIDOTIS (Nutt.) Copel.: podfern												
A. DENSA (Brackenr.)	Lellinger podfern	LC	M-MX	-	-	x	-	x	x	-	-	NW,SW,N
ATHYRIUM Roth: lady-fern												
A. DISTENTIFOLIUM	Tausch alpine lady-fern [A. alpestre Clairv.]	LC	M	-	-	-	-	x	x	x	-	widespread
A. FILIX-FEMINA (L.)	Roth common lady-fern	C	M	x	-	-	X	X	x	-	-	widespread
CHEILANTHES Sw.: lip-fern												
C. FEEI	Moore Fee's lip-fern	R	X	-	-	-	-	-	x	-	-	N
C. GRACILLIMA	D.C. Eat. lace lip-fern	LC	M-MX	-	-	x	-	x	x	x	-	WNW,NW
CRYPTOGRAMMA R. Br.: rock-brake												
C. CRISPA (L.)	R. Br. rock-brake	C	M-X	-	-	x	-	X	X	X	x	widespread
CYSTOPTERIS Bernh.: bladder-fern												
C. FRAGILIS (L.)	Bernh. brittle bladder-fern	C	M-X	-	x	X	-	X	X	X	-	widespread
DRYOPTERIS Adans.: shield-fern, wood-fern												
D. AUSTRIACA (Jacq.)	Woyнар spreading wood-fern [D. spinulosa Kuntze, D. dilatata Gray, D. assimilis S. Walker]	LC	M	-	-	-	x	x	x	x	-	WNW,NW
D. FILIX-MAS (L.)	Schott male-fern	I	M	-	-	-	x	x	x	x	-	WNW,NW
GYMNOCARPIUM Newm.: oak-fern												
G. DRYOPTERIS (L.)	Newm. oak-fern	LC	M	-	-	-	X	x	-	-	-	WNW,NW,N
POLYPODIUM L.: polypody												
P. HESPERIUM	Maxon common polypody [P. vulgare L. v. hesperium Nels. & Macbr.]	I	M-MX	-	-	x	-	x	-	-	-	NW

POLYPODIACEAE: continued

		Zones								
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
POLYSTICHUM Roth: holly-fern, sword-fern, Christmas-fern										
P. ANDERSONII Hopkins Anderson's sword-fern	I M	-	-	-	x	x	x	-	-	NW,SW
P. LONCHITIS (L.) Roth Mountain holly-fern	LC M	-	-	-	-	x	x	x	-	widespread
P. MUNITUM (Kaulf.) Presl. common Christmas-fern	R M	-	-	-	x	x	-	-	-	NW,N
P. SCOPULINUM (D.C. Eat.) Maxon rock sword-fern	R M	-	-	-	-	x	-	-	-	NW
PTERIDIUM Gled.: bracken										
P. AQUILINUM (L.) Kuhn bracken	LC M-MX	x	-	x	x	x	-	-	-	widespread
WOODSIA R. Br.: woodsia										
W. OREGANA D.C. Eat. woodsia	LC MX	-	x	x	-	x	x	-	-	widespread
W. SCOPULINA D.C. Eat. Rocky Mtn. woodsia	C MX-X	-	x	X	-	X	x	-	-	widespread

DIVISION CONIFEROPHYTA,
CONIFERS

CUPRESSACEAE
Cedar Family

JUNIPERUS L.: juniper										
J. COMMUNIS L. v. MONTANA Ait. common juniper	LC M-X	-	x	X	x	x	x	x	x	widespread
J. SCOPULORUM Sarg. Rocky Mtn. juniper	C MX-X	x	X	X	x	-	-	-	-	widespread
THUJA L.: arborvitae										
T. PLICATA Donn. western redcedar	LC M	-	-	-	X	x	-	-	-	WNW,NW,N NE,SW,S

PINACEAE
Pine Family

ABIES Mill.: fir										
A. GRANDIS (Dougl.) Lindl. grand fir	C M	-	-	-	X	x	-	-	-	widespread

		Zones											
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
PINACEAE: continued													
A. LASIOCARPA (Hook.) Nutt.	subalpine fir	C	M	-	-	x	x	x	x	x	x	x	widespread
LARIX Adans.: larch, tamarack													
L. LYALLII Parl.	alpine larch	C	X-M	-	-	-	-	x	x	x	x	x	widespread
L. OCCIDENTALIS Nutt.	western larch	C	M	-	-	x	x	x	-	-	-	-	N, WNW, NW, NE
PICEA A. Dietr.: spruce													
P. ENGELMANNII Parry	Engelmann spruce	C	H-X	-	-	-	x	x	x	x	x	x	widespread
PINUS L.: pine													
P. ALBICAULIS Engelm.	whitebark pine	C	M-MX	-	-	x	-	x	x	x	x	x	widespread
P. CONTORTA v. LATIFOLIA Engelm.	lodgepole pine	C	M-MX	-	x	x	x	x	x	x	-	-	widespread
P. MONTICOLA Dougl.	western white pine	R	M	-	-	-	x	x	-	-	-	-	WNW, NW, N
P. PONDEROSA Dougl. v. PONDEROSA	ponderosa pine	C	M-X	-	x	x	x	x	x	-	-	-	widespread
PSEUDOTSUGA Carr.: Douglas-fir													
P. MENZIESII v. GLAUCA (Beissn.) Franco	Douglas-fir	C	M-MX	-	x	x	x	x	-	-	-	-	widespread
TSUGA Carr.: hemlock													
T. MERTENSIANA (Bong.) Carr.	mountain hemlock	R	M	-	-	-	x	x	x	-	-	-	WNW, NW, N
TAXACEAE Yew Family													
TAXUS L.: yew													
T. BREVIFOLIA Nutt.	Pacific yew	LC	M	-	-	-	x	x	-	-	-	-	WNW, N, NW, SW

**DIVISION ANTHOPHYTA, FLOWERING
PLANTS - CLASS MAGNOLIOPSIDA,
"DICOTS"**

Zones

ACERACEAE
Maple Family

ACER L.: maple

		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
A. GLABRUM Torr.	Rocky Mtn. maple	C	MX		x	-	X	X	X	-	-	-	widespread
A. NEGUNDO L.	box-elder	I	M		x	-	-	-	-	-	-	-	NW
*A. PLATANOIDES L.	Norway maple	I	M		x	-	-	-	-	-	-	-	N

AMARANTHACEAE
Amaranth Family

AMARANTHUS L.: amaranth, pigweed

A. ALBUS L.	tumbleweed, white pigweed	I	M		x	x	-	-	-	-	-	-	N
A. ARENICOLA Johnson	sand pigweed	R	M		x	x	-	-	-	-	-	-	N
A. CALIFORNICUS (Moq.) Wats.	California amaranth	R	M		x	x	-	-	-	-	-	-	N
A. GRAECIZANS L.	prostrate pigweed	C	M		X	x	-	-	-	-	-	-	widespread
A. HYBRIDUS L.	prince's feather	I	M		x	x	-	-	-	-	-	-	N
A. POWELLII Wats.	Powell's amaranth	I	M		x	x	-	-	-	-	-	-	N
A. RETROFLEXUS L.	redroot amaranth	C	M		X	x	-	-	-	-	-	-	widespread

ANACARDIACEAE
Sumac Family

RHUS L.: sumac

R. GLABRA L.	smooth sumac	I	MX-X		-	x	-	-	-	-	-	-	N,NE
R. RADICANS L.	poison ivy	I	MX		x	x	-	-	-	-	-	-	N,NW

APOCYNACEAE
Dogbane Family

APOCYNUM L.: dogbane

A. ANDROSAEMIFOLIUM L. v. PUMILUM	Gray creeping dogbane	C	MX		-	X	X	-	x	-	-	-	widespread
A. CANNABINUM L.	common dogbane	LC	M		x	x	-	-	-	-	-	-	N

			Zones											
			Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
APOCYNACEAE: continued														
A. MEDIUM	Greene	western dogbane	LC	M	x	x	-	-	-	-	-	-	-	widespread
A. SIBIRICUM	Jacq.	Siberian dogbane	I-R	M	x	x	-	-	-	-	-	-	-	N
ARALIACEAE Ginseng Family														
ARALIA L.: aralia														
A. NUDICAULIS	L.	wild sarsaparilla	R	M	-	-	x	x	-	-	-	-	-	SW
ASCLEPIADACEAE Milkweed Family														
ASCLEPIAS L.: milkweed														
A. SPECIOSA	Torr.	showy milkweed	I	M	x	x	-	-	-	-	-	-	-	N,NW,NE
BALSAMINACEAE Touch-me-not Family														
IMPATIENS L.: touch-me-not, jewelweed														
I. AURELLA	Rydb.	orange touch-me-not	I	H-M	x	-	-	-	-	-	-	-	-	N
I. ECALCARATA	Blank.	spurless jewelweed	LC	H-M	x	-	-	-	-	-	-	-	-	WNW,NW,
BERBERIDACEAE Barberry Family														
BERBERIS L.: barberry, Oregon grape														
B. REPENS	Lindl.	Oregon grape	C	M-MX	x	x	X	X	x	-	-	-	-	widespread
*B. VULGARIS	L.	common barberry	R	M	x	-	-	-	-	-	-	-	-	NW
BETULACEAE Birch Family														
ALNUS Hill: alder														
A. INCANA	(L.) Moench	gray or thin-leaved alder	C	H-M	X	-	-	x	x	-	-	-	-	widespread
A. SINUATA	(Regel) Rydb.	mountain or Sitka alder	C	H-M	-	-	x	x	X	x	-	-	-	widespread

BETULACEAE: continued

		Zones									
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
BETULA L.: birch											
*B. ALBA L. v. DALECARLICA Rehd. European white birch	I	M	x	-	-	-	-	-	-	-	N
B. GLANDULOSA Michx. bog birch	I	H-M	-	-	-	-	x	x	-	-	WNW,NW,NE
B. OCCIDENTALIS Hook. river birch	C	H-M	X	-	-	x	-	-	-	-	widespread
B. PAPYRIFERA Marsh paper birch	I	M	x	-	-	-	-	-	-	-	NW

BORAGINACEAE
Borage Family

AMSINCKIA Lehm.: fiddleneck											
A. LYCOPSOIDES Lehm. tarweed fiddleneck	R	MX	x	-	-	-	-	-	-	-	N
A. MENZIESII (Lehm.) Nels. & Macbr. Menzies' fiddleneck	I	MX	x	-	-	-	-	-	-	-	NW,N
ANCHUSA L.: bugloss											
*A. OFFICINALIS L. common bugloss	I	MX	x	-	-	-	-	-	-	-	NW
ASPERUGO L.: madwort											
*A. PROCUMBENS L. madwort	I	MX	x	x	-	-	-	-	-	-	N
CRYPTANTHA Lehm.: cryptantha, miner's candle											
C. AFFINIS (Gray) Greene slender cryptantha	LC	MX	-	x	-	-	-	-	-	-	widespread
C. AMBIGUA (Gray) Greene obscure cryptantha	I	MX	-	x	-	-	-	-	-	-	NW
C. CELOSIOIDES (Eastw.) Pays. miner's candle	LC	MX	-	x	x	-	-	-	-	-	N,NW
C. INTERRUPTA (Greene) Pays. miner's candle	LC	MX	-	x	x	-	-	-	-	-	NW,NE
C. TORREYANA (Gray) Greene Torrey's cryptantha	I	MX-X	-	x	-	-	-	-	-	-	N,NW
C. WATSONII (Gray) Greene Watson's cryptantha	I-R	MX-X	-	x	-	-	-	-	-	-	NW
CYNOGLOSSUM L.: hound's-tongue											
*C. OFFICINALE L. hounds'-tongue	LC	MX	x	x	x	-	-	-	-	-	NE,SE,NW, WNW,N

BORAGINACEAE: continued

		Zones							
Abundance	Habitat Moisture	Valley-moist Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution	
ECHIUM L.: viper's bugloss									
*E. VULGARE L.	viper's bugloss	I	MX	x x	- -	- -	- -	NW,SE,SW,N	
ERITRICHIMUM Schrad.: alpine forget-me-not									
E. NANUM (Vill.) Schrad.	pale alpine forget-me-not	I	MX-X	- -	- -	- -	x x	NW,SW	
HACKELIA Opiz: stickseed, hackelia									
H. CINEREA (Piper) Johnst.	Gray's stickseed	LC	MX-X	- x x	- -	- -	- -	NW,SW,S	
H. FLORIBUNDA (Lehm.) Johnst.	many-flowered stickseed	I	M	- -	x x	- -	- -	NW,S,N	
H. MICRANTHA (Eastw.) J.L.Gentry	blue stickseed	LC	M-MX	- -	x -	x x	x -	SW,S	
[H. jessicae (McGregor) Brand]									
LAPPULA Gilib.: stickseed									
L. ECHINATA Gilib.	bristly stickseed	I	MX-X	x x x	- -	- -	- -	NW	
L. REDOWSKII (Hornem.) Greene	western stickseed	C	MX	x X x	- -	- -	- -	widespread	
LITHOSPERMUM L.: gromwell									
*L. ARVENSE L.	field gromwell	C	MX	X X	- -	- -	- -	widespread	
L. RUDERALE Dougl.	wayside gromwell	C	MX	- X x	- x	- -	- -	widespread	
MERTENSIA Roth: bluebells									
M. BELLA Piper	Oregon bluebells	R	M	- -	- -	x -	- -	WNW	
M. CILIATA (Torr.) G. Don	mountain bluebells	I	H-M	- -	- x x x	- -	- -	NE,S,NW	
M. LONGIFLORA Greene	small bluebells	I	MX	- x x	- -	- -	- -	NW,NE	
M. OBLONGIFOLIA (Nutt.) G. Don	leafy bluebells	C	MX	- X X X	x x	- -	- -	widespread	
M. PANICULATA (Ait.) G. Don	tall bluebells	LC	H-M	x -	- x x x	x x	- -	WNW,NW,S	
M. PERPLEXA Rydb.	obscure bluebells	R	H-M	- -	- -	- -	x -	SE	

BORAGINACEAE: continued

		Zones								
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
MYOSOTIS L.: forget-me-not										
*M. ARVENSIS (L.) Hill	R	MX	x	-	-	-	-	-	-	N
field forget-me-not										
M. LAXA Lehm. smaller forget-me-not	C	H-M	X	-	-	-	-	-	-	widespread
*M. MICRANTHA Pall.	C	MX	x	X	-	-	-	-	-	widespread
slender forget-me-not										
*M. SCORPIOIDES L.	I	H-M	x	-	-	-	-	-	-	NW,N
common forget-me-not										
M. SYLVATICA Hoffm. v. ALPESTRIS	R	M	-	-	-	x	-	-	-	NW,SW
(Schmidt) Koch wood forget-me-not										
M. VERNA Nutt. early forget-me-not	R	M-MX	-	-	-	x	-	-	-	WNW
PLAGIOBOTHRYIS F. & M.: popcorn-flower										
P. SCOULERI (H. & A.) Johnst.	C	H-MX	X	X	x	x	-	-	-	widespread
Scouler's popcorn-flower										

CACTACEAE
Cactus Family

OPUNTIA Mill.: prickly-pear

O. FRAGILIS (Nutt.) Haw. jump cactus	I	MX-X	-	x	-	-	-	-	-	N,NE,NW
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CALLITRICHACEAE
Water-starwort Family

CALLITRICHE L.: water-starwort

C. ANCEPS Fern.	R	H	x	-	-	-	-	-	-	SW
two-edged water-starwort										
C. HETEROPHYLLA Pursh	C	H	X	-	-	-	-	-	-	widespread
common water-starwort										
C. STAGNALIS Scop.	I	H	x	-	-	-	-	-	-	S,SE
pond water-starwort										
C. VERNA L.	I	H	x	-	-	-	-	-	-	NW
spring water-starwort										

Zones

CAMPANULACEAE
Harebell Family

	Abundance	Habitat Moisture	Valley-moist Valley-dry Montane-dry Montane-moist L. Subalpine U. Subalpine Timberline Alpine	Geographic Distribution
CAMPANULA L.: harebell				
C. PARRYI Gray v. IDAHOENSIS McVaugh Parry harebell	LC	M	- - - x x x x x	widespread
*C. RAPUNCULOIDES L. creeping bellflower	R	M	x x - - - - -	NW,N
C. ROTUNDIFOLIA L. scotch harebell	C	M-MX	x x X x X X x x	widespread
C. SCABRELLA Engelm. rough alpine harebell	I	MX-X	- - - - - x x x	NW,SW,S
HETEROCODON Nutt.: heterocodon				
H. RARIFLORUM Nutt. heterocodon	R	M	- - - x x x - -	NW,SW
TRIODANIS Raf.: Venus'-looking-glass				
T. PERFOLIATA (L.) Nieuwl. Venus'-looking-glass	I	MX	- x - - - - -	N

CANNABINACEAE
Hemp Family

CANNABIS (Tourn.) L.: marijuana, hemp				
*C. SATIVA L. marijuana	I	M	x - - - - - -	N

CAPPARIDACEAE
Caper Family

CLEOME L.: beepplant				
C. SERRULATA Pursh Rocky Mtn. beepplant	I	MX	x x - - - - -	NW,SW,NE

CAPRIFOLIACEAE
Honeysuckle Family

LINNAEA L.: twinflower				
L. BOREALIS L. twinflower	C	M	- - X X X x - -	widespread
LONICERA L.: honeysuckle				
L. CAERULEA L. sweet-berry honeysuckle	I	H-M	- - - x x x - -	NW,SW,S
L. CILIOSA (Pursh) DC. trumpet honeysuckle	I	M	x - x x x - - -	N,NE

		Zones										
		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
CAPRIFOLIACEAE: continued												
L. INVOLUCRATA (Rich.) Banks	twinberry	C	H-M	x	-	x	X	x	x	-	-	widespread
*L. TATARICA L.	tartarian honeysuckle	I	M-MX	x	-	-	-	-	-	-	-	N
L. UTAHENSIS Wats.	red twinberry	C	M	x	-	x	X	X	x	-	-	widespread
SAMBUCUS L.: elderberry												
S. CERULEA Raf.	blue elderberry	C	M	X	-	x	x	-	-	-	-	widespread
S. RACEMOSA L. v. MELANOCARPA	(Gray) McMinn black elderberry	C	M	-	-	x	X	X	x	-	-	widespread
SYMPHORICARPOS DuRoi: snowberry												
S. ALBUS (L.) Blake	common snowberry	C	M-MX	X	X	X	X	x	-	-	-	widespread
S. OCCIDENTALIS Hook.	western snowberry	I	M-MX	x	x	x	-	-	-	-	-	widespread
S. OREOPHILUS Gray v. UTAHENSIS	(Rydb.) A. Nels. mountain snowberry	I	MX	-	-	x	x	x	-	-	-	SW,SE,S
VIBURNUM L.: viburnum												
*V. LANTANA L.	wayfaring-tree	R	M	x	-	-	-	-	-	-	-	N
V. OPULUS L. v. AMERICANUM Ait.	American high-bush cranberry	R	M	x	-	-	-	-	-	-	-	N,NW

CARYOPHYLLACEAE
Pink Family

ARENARIA L.: sandwort												
A. ACULEATA Wats.	stemless sandwort	LC	MX-X	-	-	-	-	x	x	x	-	SW,S
A. CAPILLARIS Poir. v. AMERICANA	(Maguire) Davis mountain sandwort	LC	MX	-	-	-	-	x	x	x	-	NW,N
A. CONGESTA Nutt. v. CEPHALOIDEA	(Rydb.) Maguire ballhead sandwort	R	MX-X	-	-	-	-	-	x	x	-	NW,SW
A. CONGESTA Nutt. v. CONGESTA	ballhead sandwort	C	MX-X	-	X	X	-	x	X	X	x	widespread
A. CONGESTA Nutt. v. LITHOPHILA Rydb.	ballhead sandwort	C	MX-X	-	X	X	-	X	x	x	x	widespread
A. LATERIFLORA L.	bluntleaf sandwort	LC	M	x	-	-	x	x	-	-	-	widespread

		Zones											
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
CARYOPHYLLACEAE: continued													
A. MACROPHYLLA Hook.	largeleaf sandwort	LC	M	x	-	x	x	x	-	-	-	-	widespread
A. NUTTALLII Pax v. NUTTALLII	Nuttall's sandwort	I	MX-X	-	-	-	-	-	x	-	-	-	NE
A. OBTUSILOBA (Rydb.) Fern.	alpine sandwort	C	MX-X	-	-	-	-	-	-	X	X	-	widespread
A. RUBELLA (Wahlenb.) J.E. Smith	reddish sandwort	I	MX-X	-	-	-	-	-	-	-	-	x	NW,SW
A. SAJANENSIS Willd.	[Minuartia biflora (L.) Schinz & Thell.]	R	M	-	-	-	-	-	-	x	x	-	NW,SW
*A. SERPYLLIFOLIA L.	thyme-leaved sandwort	LC	MX	x	x	x	-	-	-	-	-	-	widespread
CERASTIUM L.: chickweed													
C. ARVENSE L.	field chickweed	C	MX-X	-	X	X	-	x	x	-	-	-	widespread
C. BEERINGIANUM Cham. & Schlecht.	alpine chickweed	R	M	-	-	-	-	-	-	-	-	x	SW
C. NUTANS Raf.	nodding chickweed	C	M	X	X	x	x	-	-	-	-	-	widespread
*C. VISCOSUM L.	sticky chickweed	C	M	X	X	x	x	-	-	-	-	-	widespread
*C. VULGATUM L.	mouse-ear chickweed	C	M	X	X	x	x	-	-	-	-	-	widespread
DIANTHUS L.: pink													
*D. ARMERIA L.	Deptford pink, grass pink	I	M	-	x	x	-	-	-	-	-	-	WNW,N
*D. BARBATUS L.	sweet William	I	M	x	-	-	-	-	-	-	-	-	N
GYPSOPHILA L.: baby's breath													
*G. PANICULATA L.	baby's breath	I	MX	x	x	x	-	-	-	-	-	-	NE,N,NW
HOLOSTEUM L.: jagged chickweed													
*H. UMBELLATUM L.	jagged chickweed	C	MX	X	X	x	-	-	-	-	-	-	widespread
LYCHNIS L.: campion													
*L. ALBA Mill.	white campion [Silene alba Muhl.]	C	M-MX	X	x	x	-	-	-	-	-	-	widespread

CARYOPHYLLACEAE: continued

	Abundance	Habitat	Moisture	Zones							Geographic Distribution
				Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	
SAGINA L.: pearlwort											
*S. PROCUMBENS L. prostrate pearlwort	I	M	x - x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	WNW,NW
S. SAGINOIDES (L.) Britt. alpine pearlwort	LC	M	- - -	x x x	- - -	- - -	- - -	- - -	- - -	- - -	NE
SAPONARIA L.: bouncing bet											
*S. OFFICINALIS L. bouncing bet	I	M	x - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	N,NW,SW
SILENE L.: campion, catchfly, silene											
S. ACAULIS L. v. EXSCAPA (Allioni) DC. moss campion	I	M-MX	- - -	- - -	- - -	- - -	- - -	x x	- - -	- - -	NW,SW,S
S. ANTIRRHINA L. sleepy catchfly	R	MX	- x -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	N,NE
*S. CONOIDEA L. Conoid catchfly	R	MX	- x -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	NE
*S. CUCUBALUS Wibel bladder campion	I	MX	x - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	N,SW,SE
*S. DICHOTOMA Ehrh. forked catchfly	R	MX	x - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	SW
S. DOUGLASII Hook. v. DOUGLASII Douglas' silene	LC	MX	- x x	x x x	x x x	x x x	- - -	- - -	- - -	- - -	WNW,NW
S. MENZIESII Hook. Menzies' silene	C	M-MX	x x X	X X x	- - -	- - -	- - -	- - -	- - -	- - -	widespread
*S. NOCTIFLORA L. night-flowering silene	I	MX	- x x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	N,NW,NE
S. OREGANA Wats. Oregon silene	I	MX	- - x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	N
S. PARRYI (Wats.) Hitchc. & Maguire Parry's silene	LC	MX	- - -	- - -	- - -	x x x	- - -	- - -	- - -	- - -	SW,S
SPERGULA L.: spurry											
*S. ARVENSIS L. spurry	C	M	X x -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
SPERULARIA (Pers.) J. & C. Presl: sandspurry											
*S. RUBRA (L.) J. & C. Presl red sandspurry	C	M-MX	X x x	X X X	- - -	- - -	- - -	- - -	- - -	- - -	widespread
STELLARIA L.: starwort, chickweed											
S. CALYCANTHA (Ledeb.) Bong. v. BONGARDIANA Fern. northern starwort	R	M	- - -	- - -	- - -	- - -	x x	- - -	- - -	- - -	SW,NW
S. CRISPA Cham. & Schlecht. crisped starwort	LC	M	- - -	x x x	x x x	- - -	- - -	- - -	- - -	- - -	NW,SW

		Zones										
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
CARYOPHYLLACEAE: continued												
S. LONGIFOLIA Muhl. long-leaved starwort	LC	M		x	-	-	x	x	-	-	-	widespread
S. LONGIPES Goldie v. LONGIPES longstalk starwort	R	MX		-	-	-	-	-	-	x	x	SW,N
S. LONGIPES Goldie v. ALTOCAULIS (Hulten) Hitchc. longstalk starwort	R	MX		-	-	-	-	-	-	-	x	SW
*S. MEDIA (L.) Cyrill. common chickweed	C	M		X	X	x	x	-	-	-	-	widespread
S. NITENS Nutt. shining chickweed	I	M		x	x	x	x	-	-	-	-	SW,N
S. OBTUSA Engelm. bluntsepaled chickweed	I	M		-	-	-	-	x	x	-	-	NE,S
S. SIMCOEI (Howell) Hitchc. Simco Mtn. starwort	R	M		-	-	-	x	-	-	-	-	SW
VACCARIA Medic.: cowherb												
*V. SEGETALIS (Neck.) Garcke. cowherb	I	M-MX		x	x	-	-	-	-	-	-	N,SW
CELASTRACEAE Staff-tree Family												
PACHISTIMA Raf.: mountain-lover, mountain-box												
P. MYRSINITES (Pursh) Raf. mountain-box	C	M-MX		-	-	X	X	x	-	-	-	widespread
CERATOPHYLLACEAE Hornwort Family												
CERATOPHYLLUM L.: hornwort												
C. DEMERSUM L. common hornwort	LC	Aq		x	-	-	-	-	-	-	-	NW
CHENOPODIACEAE Goosefoot Family												
ATRIPLEX L.: greasewood, saltbush												
*A. HORTENSIS L. French spinach	R	M		x	x	-	-	-	-	-	-	N
A. PATULA L. v. HASTATA (L.) Gray spearscale	C	M		X	X	-	-	-	-	-	-	N,NW

CHENOPODIACEAE: continued

		Zones									
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
CHENOPODIUM L.: lamb's quarters, goosefoot											
*C.	ALBUM L.	lamb's quarters	C	M	X	x	-	-	-	-	widespread
*C.	BOTRYS L.	Jerusalem oak	I	M	x	x	-	-	-	-	N,NW
C.	CAPITATUM (L.) Asch.	strawberry blite	I	M	x	-	-	-	-	-	N
C.	FREMONTII Wats.	Fremont's goosefoot	I	M-MX	x	x	x	x	-	-	N,NW
C.	GLAUCUM L.	oakleaf goosefoot	LC	M	x	-	-	-	-	-	N,NW
*C.	HYBRIDUM L.	sowbane	C	M	X	x	-	-	-	-	widespread
C.	LEPTOPHYLLUM (Moq.) Wats.	slimleaf goosefoot	I	M-MX	x	x	-	-	-	-	N
*C.	MURALE L.	nettle-leaved goosefoot	I	M	x	-	-	-	-	-	N
C.	RUBRUM L.	red goosefoot	I	M	x	-	-	-	-	-	N
KOCHIA Roth: mock cypress											
*K.	SCOPARIA (L.) Schrad.	mock cypress	C	MX-X	x	X	-	-	-	-	widespread
MONOLEPIS Schrad.: povertyweed											
M.	NUTTALLIANA (Schultes) Greene	povertyweed	C	MX-X	x	X	-	-	-	-	widespread
SALSOLA L.: Russian thistle											
*S.	KALI L.	Russian thistle	C	MX-X	X	X	-	-	-	-	widespread

COMPOSITAE (ASTERACEAE)
Sunflower Family

ACHILLEA L.: yarrow, milfoil

A.	MILLEFOLIUM L. ssp. LANULOSA (Nutt.) Piper v. LANULOSA	yarrow	C	M-MX	x	X	X	X	x	-	-	widespread
A.	MILLEFOLIUM L. ssp. LANULOSA (Nutt.) Piper v. ALPICOLA (Rydb.) Garrett	alpine yarrow	C	M-MX	-	-	-	-	x	X	X	widespread

COMPOSITAE: continued

		Zones										
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution		
ADENOCAULON Hook.: pathfinder												
A. BICOLOR Hook.	pathfinder	I	M	-	-	x	x	x	-	-	WNW,NW,N	
AGOSERIS Raf.: agoseris, false-dandelion												
A. AURANTIACA (Hook.) Greene	orange agoseris	LC	M-MX	-	-	x	x	x	x	x	widespread	
A. GLAUCA (Pursh) Raf., v. GLAUCA	false-dandelion	LC	M-MX	x	x	x	x	x	-	-	NW,N	
A. GLAUCA (Pursh) Raf. v. AGRESTIS	(Osterh.) Jones false-dandelion	R	M-MX	-	x	x	-	-	-	-	NW,N	
A. GLAUCA (Pursh) Raf. v. DASYCEPHALA	(T. & G.) Jeps. false-dandelion	LC	M-MX	-	-	-	-	-	x	x	S	
A. GLAUCA (Pursh) Raf. v. LACINIATA	(D.C. Eat.) Smiley false-dandelion	I	M-MX	-	x	x	-	x	-	-	NW,S	
A. GRANDIFLORA (Nutt.) Greene	large-flowered agoseris	R	M	-	-	-	-	x	-	-	WNW	
A. HETEROPHYLLA (Nutt.) Greene	annual agoseris	I	MX	-	x	x	-	-	-	-	NW	
AMBROSIA L.: ragweed												
A. ARTEMISIIFOLIA L.	annual ragweed	I	MX	x	x	-	-	-	-	-	N	
A. TRIFIDA L.	giant ragweed	I	M	x	-	-	-	-	-	-	N	
ANAPHALIS DC.: pearly-everlasting												
A. MARGARITACEA (L.) B. & H.	pearly-everlasting	C	M-MX	x	x	X	x	X	x	-	widespread	
ANTENNARIA Gaertn.: pussy-toes												
A. ALPINA (L.) Gaertn.	alpine pussy-toes	C	M-MX	-	-	-	-	-	X	X	x	widespread
A. ANAPHALOIDES Rydb.	tall pussy-toes	LC	M-MX	-	x	x	-	x	x	-	widespread	
A. AROMATICA Evert	fragrant pussy-toes	I	MX-X	-	-	-	-	-	-	x	x	NW,SW
A. CORYMBOSA E. Nels.	meadow pussy-toes	I	M	-	-	-	x	x	-	-	NW,SW	

		Zones										
		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
COMPOSITAE: continued												
A. DIMORPHA (Nutt.) T. & G. low pussy-toes		LC	MX-X	- x	x -	- -	- -	- -	- -	- -	- -	widespread
A. LANATA (Hook.) Greene wooly pussy-toes		LC	M-MX	- -	- -	- -	x x	x x	x x	x x	x x	widespread
A. LUZULOIDES T. & G. rush pussy-toes		LC	MX-X	- x	x -	- -	- -	- -	- -	- -	- -	widespread
A. MICROPHYLLA Rydb. rosy pussy-toes [A. rosea Greene]		C	MX-X	- X	X -	- X	X X	X X	x x	x x	x x	widespread
A. NEGLECTA Greene field pussy-toes		I	MX	- x	x -	x -	- -	- -	- -	- -	- -	NW,NNW,N
A. PARVIFOLIA Nutt. Nuttall's pussy-toes		C	MX	- X	X -	- -	- -	- -	- -	- -	- -	widespread
A. RACEMOSA Hook. raceme pussy-toes		C	M-MX	x -	X X	X X	x x	x x	x x	x x	x x	widespread
A. UMBRINELLA Rydb. umber pussy-toes		C	MX-X	- X	X -	- x	x x	x x	x x	x x	x x	widespread
ANTHEMIS L.: mayweed, dog fennel												
*A. COTULA L. dog fennel, mayweed		I	M	x x	x -	- -	- -	- -	- -	- -	- -	SW,NW,S
ARCTIUM L.: burdock												
*A. MINUS (Hill) Bernh. common burdock		I	M	x -	- -	- -	- -	- -	- -	- -	- -	N
ARNICA L.: arnica												
A. CHAMISSONIS Less. leafy arnica		LC	M	x -	- -	- -	- -	- -	- -	- -	- -	N,SW
A. CORDIFOLIA Hook. v. CORDIFOLIA heartleaf arnica		C	M-MX	x x	X X	x x	x x	- -	- -	- -	- -	widespread
A. CORDIFOLIA Hook. v. PUMILA (Rydb.) Maguire alpine arnica		I	M-MX	- -	- -	- -	- -	x x	- -	- -	- -	SW
A. DIVERSIFOLIA Greene sticky arnica		LC	M-MX	- -	- -	- -	x x	x x	- -	- -	- -	widespread
A. FULGENS Pursh orange arnica		I	M-MX	- -	- -	x x	x x	- -	- -	- -	- -	NW,SW,N
A. LATIFOLIA Bong. v. LATIFOLIA mountain arnica		C	M-MX	- x	X X	X X	X X	x x	x x	x x	x x	widespread
A. LATIFOLIA Bong. v. GRACILIS (Rydb.) Cronq. mountain arnica		LC	M-MX	- -	- -	- -	x x	x x	- -	- -	- -	widespread

COMPOSITAE: continued

	Abundance	Habitat	Moisture	Zones							Geographic Distribution
				Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	
A. LONGIFOLIA D.C. Eat. seep-spring arnica	I	M	-	-	-	-	-	x	x	-	SW,N
A. MOLLIS Hook. hairy arnica	C	M	-	-	-	x	x	X	X	-	widespread
A. PARRYI Gray nodding arnica	I	M-MX	-	-	-	x	x	x	-	-	SW,NE
A. RYDBERGII Greene Rydberg's arnica	I	MX	-	-	-	-	-	-	x	x	N,S
A. SORORIA Greene twin arnica	C	MX	-	X	X	-	-	-	-	-	widespread
ARTEMISIA L.: sagebrush, sagewort											
*A. ABSINTHIUM L. sageweed	LC	MX	x	x	-	-	-	-	-	-	widespread
A. BIENNIS Willd. biennial sagewort	I	M-MX	x	-	-	-	-	-	-	-	N,NW
A. CAMPESTRIS L. v. SCOULERIANA (Bess.) Cronq. prairie sagewort	I	MX	-	x	-	-	-	-	-	-	N,NW
A. DRACUNCULUS L. green sagewort	LC	MX-X	-	x	-	-	-	-	-	-	widespread
A. FRIGIDA Willd. frosty sagewort, fringed sagewort	C	MX-X	-	X	x	-	-	-	-	-	widespread
A. LINDLEYANA Bess. riverbank sagewort	I	M	x	-	-	-	-	-	-	-	N
A. LUDOVICIANA Nutt. v. LUDOVICIANA gray sagewort	I	MX	-	x	x	-	-	-	-	-	widespread
A. LUDOVICIANA Nutt. v. INCOMPTA (Nutt.) Cronq. mountain sagewort	LC	MX-X	-	-	-	x	x	x	x	-	widespread
A. LUDOVICIANA Nutt. v. LATILOBA Nutt. gray sagewort	LC	MX	-	x	x	-	-	-	-	-	widespread
A. TRIDENTATA Nutt. common sagebrush, big sagebrush [A. tridentata Nutt. ssp. vaseyana (Rydb.) Beetle]	C	MX	-	X	x	-	x	x	-	-	widespread
*A. VULGARIS L. wormwood	I	M	x	-	-	-	-	-	-	-	N,NW
ASTER L.: aster											
A. ALPIGENUS (T. & G.) Gray v. HAYDENII (Porter) Cronq. alpine aster	LC	MX	-	-	-	-	-	-	x	x	SW,S
A. CAMPESTRIS Nutt. western meadow aster	I	MX	-	x	x	-	-	-	-	-	NW,N

COMPOSITAE: continued

		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
A. CHILENSIS	Nees ssp. ADSCENDENS (Lindl.) Cronq. long-leaved aster	LC	MX	-	x	x	x	x	-	-	-	NE,N
A. CONSPICUUS	Lindl. showy aster	C	M-MX	-	x	X	x	X	-	-	-	widespread
A. EATONII	(Gray) Howell Eaton's aster	I	M	x	-	-	x	x	-	-	-	NW,SW,N
A. FALCATUS	Lindl. little gray aster	I	MX-X	-	x	x	-	-	-	-	-	N,NE
A. FOLIACEUS	Lindl. v. APRICUS Gray leafy aster	R	M	-	-	-	-	-	x	x	-	SW
A. FOLIACEUS	Lindl. v. LYALLII (Gray) Cronq. leafy aster	LC	M	-	-	-	-	x	x	x	-	SW,NW,N
A. FOLIACEUS	Lindl. v. PARRYI (D.C. Eat.) Gray leafy aster	C	M	-	-	-	X	X	X	-	-	SW,NW,N
A. HESPERIUS	Gray marsh aster	I	H-M	x	-	-	-	-	-	-	-	NW
A. INTEGRIFOLIUS	Nutt. thickstem aster	LC	MX	-	-	-	-	x	x	x	-	widespread
A. LAEVIS	L. smooth aster	C	M	X	x	X	x	-	-	-	-	widespread
A. MODESTUS	Lindl. few-flowered aster	LC	H-M	x	-	-	x	x	-	-	-	widespread
A. OCCIDENTALIS	(Nutt.) T. & G. v. OCCIDENTALIS western mountain aster	LC	M	-	-	-	-	x	x	x	-	NW,SW
A. OCCIDENTALIS	(Nutt.) T. & G. v. INTERMEDIUS Gray western mountain aster	I	M	x	-	-	x	x	x	-	-	NW,N
A. PANSUS	(Blake) Cronq. heath-leaved aster	I	MX	x	x	x	-	-	-	-	-	N,NE
A. PERELEGENS	Nels. & Macbr. elegant aster	I	MX	-	-	x	-	x	x	-	-	SW
A. SIBIRICUS	L. v. MERITUS (A. Nels.) Raup arctic aster	I	M	-	-	-	x	x	x	-	-	WNW,NW
A. STENOMERES	Gray northwest aster	I	MX	-	-	-	-	x	x	-	-	NW,S
A. SUBSPICATUS	Nees Douglas aster	R	M	x	-	-	-	-	-	-	-	N
BALSAMORHIZA Nutt.: balsamroot												
B. SAGITTATA	(Pursh) Nutt. arrowleaf balsamroot	C	MX	-	X	x	-	x	-	-	-	widespread

COMPOSITAE: continued

		Zones											
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
BELLIS L.: daisy													
*B.	PERENNIS L.	English daisy	I	M	x	-	-	-	-	-	-	-	N
BIDENS L.: beggar-ticks													
B.	CERNUA L.	beggar-ticks	C	H-M	X	-	-	-	-	-	-	-	widespread
BRICKELLIA Ell.: brickellia													
B.	GRANDIFLORA (Hook.) Nutt.	large-flowered brickellia	I	MX-X	-	-	x	-	x	-	-	-	NW,S
CARDUUS L.: thistle													
*C.	NUTANS L.	musk thistle	C	M-MX	x	X	x	-	-	-	-	-	widespread
CENTAUREA L.: knapweed, star-thistle													
*C.	CYANUS L.	cornflower	I	M	x	x	-	-	-	-	-	-	N,NW
*C.	DIFFUSA Lam.	tumble knapweed, diffuse knapweed	I	MX	-	x	-	-	-	-	-	-	N
*C.	MACULOSA Lam.	spotted knapweed	C	M-MX	x	X	x	-	-	-	-	-	widespread
*C.	PRATENSIS Thuill.	meadow knapweed	R	MX-X	-	x	x	-	-	-	-	-	NW
*C.	REPENS L.	Russian knapweed	I	M	x	-	-	-	-	-	-	-	N
*C.	SOLSTITIALIS L.	yellow star-thistle	R	MX-X	-	x	-	-	-	-	-	-	SW
CHAENACTIS DC.: chaenactis													
C.	ALPINA (Gray) Jones	alpine chaenactis	R	MX-X	-	-	-	-	-	-	-	x	SW
C.	DOUGLASII (Hook.) H. & A. v.	ACHILLEAEFOLIA (H. & A.) A. Nels.	LC	MX-X	-	x	x	-	-	-	-	-	widespread
false-yarrow													
CHRYSANTHEMUM L.: chrysanthemum													
*C.	LEUCANTHEMUM L.	oxeye daisy	C	M-MX	X	x	x	X	-	-	-	-	widespread
CHRYSOPSIS (Nutt.) Ell.: golden aster													
C.	VILLOSA (Pursh) Nutt.	hairy golden aster	C	M-X	-	X	x	-	-	-	-	-	widespread
[Heterotheca villosa (Pursh) Shin.]													

COMPOSITAE: continued

		Zones									
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
CHRYSOTHAMNUS Nutt.: rabbit-brush											
C	C. NAUSEOSUS (Pall.) Britt.	MX-X	-	X	x	-	-	-	-	-	widespread
	rubber rabbit-brush										
LC	C. VISCIDIFLORUS (Hook.) Nutt.	MX-X	-	x	x	-	-	-	-	-	widespread
	green rabbit-brush										
CICHORIUM L.: chicory											
I	*C. INTYBUS L.	M	x	-	-	-	-	-	-	-	N,NW,NE
	chicory										
CIRSIUM Mill.: thistle											
C	*C. ARVENSE (L.) Scop.	M	X	x	-	-	-	-	-	-	widespread
	Canada thistle										
C	C. HOOKERIANUM Nutt.	M	x	-	x	X	X	x	x	-	widespread
	white thistle										
LC	C. SCARIOSUM Nutt.	M	-	-	-	x	x	x	x	-	widespread
	elk thistle										
C	C. UNDULATUM (Nutt.) Spreng.	MX	-	X	x	-	-	-	-	-	widespread
	wavy-leaf thistle										
C	*C. VULGARE (Savi) Tenore	M	X	x	x	x	-	-	-	-	widespread
	bull thistle										
CONYZA Less.: Horseweed											
C	C. CANADENSIS (L.) Cronq. v.	MX	X	X	x	x	-	-	-	-	widespread
	GLABRATA (Gray) Cronq.										horseweed
COREOPSIS L.: tickseed											
I	C. ATKINSONIANA Dougl.	H-M	x	-	-	-	-	-	-	-	N
	Columbia tickseed										
CREPIS L.: hawksbeard											
C	C. ACUMINATA Nutt.	MX	-	X	x	-	-	-	-	-	NW,N
	tapertip hawksbeard										
C	C. ATRABARBA Heller ssp. ATRABARBA	MX	-	X	x	-	-	-	-	-	widespread
	slender hawksbeard										
I	C. ATRABARBA Heller ssp. ORIGINALIS	MX	-	x	x	-	-	-	-	-	NW
	Babc. & Stebb.										slender hawksbeard
I	C. INTERMEDIA Gray	MX	-	x	-	-	-	-	-	-	N,NW
	gray hawksbeard										
I	C. MODOCENSIS Greene	MX	-	-	x	-	-	-	-	-	NW,N
	low hawksbeard										

COMPOSITAE: continued

		Zones								
Abundance	Habitat Moisture	Valley-moist Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
C. OCCIDENTALIS Nutt. ssp. COSTATA (Gray) Babc. & Stebb. western hawksbeard	LC MX	-	x	-	-	-	-	-	NE,S	
C. RUNCINATA (James) T. & G. meadow hawksbeard	I M	x	-	-	x	x	-	-	SW	
ERIGERON L.: daisy, fleabane										
E. ACRIS L. v. ASTEROIDES (Andrz.) Bess. bitter fleabane	I M-MX	-	x	x	x	-	-	-	NW	
E. ACRIS L. v. DEBILIS Gray bitter fleabane	LC M-MX	-	-	-	x	x	x	x	widespread	
E. CAESPITOSUS Nutt. tufted fleabane	LC MX-X	-	-	x	-	x	x	x	widespread	
E. COMPOSITUS Pursh v. GLABRATUS Macoun cutleaf daisy	C MX-X	-	X	X	-	x	X	X	widespread	
E. CORYMBOSUS Nutt. foothill daisy	I MX	-	x	x	-	-	-	-	NW	
E. COULTERI Porter Coulter's daisy	I M-MX	-	-	-	x	x	x	-	SW,S,SE	
E. DIVERGENS T. & G. spreading fleabane	C M-MX	-	X	x	-	-	-	-	widespread	
E. EVERMANNII Rydb. Evermann's daisy	I MX-X	-	-	-	-	-	-	x	x	SW
E. GLABELLUS Nutt. v. GLABELLUS smooth daisy	LC MX	x	-	-	-	-	-	-	N,NW,NE	
E. LINEARIS (Hook.) Piper yellow daisy	R MX	-	-	x	-	-	-	-	NW	
E. PEREGRINUS (Pursh) Greene ssp. CALLIANTHEMUS (Greene) Cronq. v. EUCALLIANTHEMUS Cronq. wandering fleabane	C M	-	-	-	x	X	X	x	-	widespread
E. PEREGRINUS (Pursh) Greene ssp. CALLIANTHEMUS (Greene) Cronq. v. SCAPOSUS (T. & G.) Cronq. wandering fleabane	C MX	-	-	-	-	-	x	X	X	widespread
E. PUMILUS Nutt. ssp. INTERMEDIUS Cronq. v. EUINTERMEDIUS Cronq. shaggy fleabane	C MX	-	X	x	-	-	-	-	-	widespread
E. RYDBERGII Cronq. Rydberg's fleabane	C MX-X	-	-	-	-	-	-	x	X	widespread

COMPOSITAE: continued		Abundance	Habitat Moisture	Zones							Geographic Distribution	
				Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline		Alpine
E. SIMPLEX	Greene alpine daisy	C	M-MX	-	-	-	-	-	x	X	X	widespread
E. SPECIOSUS	(Lindl.) DC. showy fleabane	C	MX	x	x	X	X	x	x	-	-	widespread
E. STRIGOSUS	Muhl. v. STRIGOSUS daisy fleabane	C	MX	-	X	X	-	-	-	-	-	widespread
E. STRIGOSUS	Muhl. v. SEPTENTRIONALIS (Fern. & Wieg.) Fern. daisy fleabane	I	MX	-	-	x	-	-	-	-	-	NE
E. SUBTRINERVIS	Rydb. v. CONSPICUUS (Rydb.) Cronq. three-veined fleabane	R	MX	-	x	-	-	-	-	-	-	NE
ERIOPHYLLUM Lag.: eriophyllum												
E. LANATUM	(Pursh) Forbes v. LANATUM Oregon sunshine, wooly sunflower	C	MX	-	x	X	-	x	-	-	-	widespread
E. LANATUM	(Pursh) Forbes v. INTEGRIFOLIUM (Hook.) Smiley wooly sunflower	LC	MX-X	-	-	-	-	-	x	x	-	SW
EUPATORIUM L.: boneset												
E. OCCIDENTALE	Hook. western boneset	R	MX	-	-	-	-	x	x	-	-	SW
FILAGO L.: filago												
*F. ARVENSIS	L. field filago	C	M-MX	x	X	-	-	-	-	-	-	widespread
GAILLARDIA Foug.: gaillardia												
G. ARISTATA	Pursh blanket flower	C	MX	-	X	x	-	-	-	-	-	widespread
GNAPHALIUM L.: cudweed												
G. CHILENSE	Spreng. cotton-batting plant	I	MX	-	x	x	x	-	-	-	-	NW
G. MICROCEPHALUM	Nutt. white cudweed	I	MX	-	x	x	-	-	-	-	-	SW,NW
G. PALUSTRE	Nutt. lowland cudweed	C	M-MX	X	X	x	x	-	-	-	-	widespread
G. VISCOSUM	H.B.K. sticky cudweed	I	MX	-	x	x	-	-	-	-	-	WNW,NW,N
GRINDELIA Willd.: gumweed												
G. SQUARROSA	(Pursh) Dunal curly-cup gumweed	C	MX	X	X	x	-	-	-	-	-	widespread

COMPOSITAE: continued

		Zones										
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic	Distribution
GUTIERREZIA Lag.: snakeweed												
G. SAROTHRAE (Pursh) Britt. & Rusby		LC	MX	-	x	x	-	-	-	-	-	NW
broom snakeweed												
HAPLOPAPPUS Cass.: goldenweed												
H. ACAULIS (Nutt.) Gray		I	X	-	x	x	-	-	-	-	-	NE
cushion goldenweed												
H. ARMERIOIDES (Nutt.) Gray		R	MX	-	x	x	-	-	-	-	-	NE
thrift goldenweed												
H. INTEGRIFOLIUS Gray		I	M	x	-	-	-	-	-	-	-	NW
entire-leaved goldenweed												
H. LANCEOLATUS (Hook.) T. & G.		I	M	x	-	-	-	-	-	-	-	WNW
lance-leaved goldenweed												
H. LANUGINOSUS Gray v. ANDERSONII		I	MX	-	-	x	-	x	x	x	-	SW,S
(Rydb.) Cronq. wooly goldenweed												
H. LYALLII Gray	Lyall's goldenweed	C	MX-X	-	-	-	-	-	-	X	X	widespread
H. SUFFRUTICOSUS (Nutt.) Gray		I	MX-X	-	-	-	-	-	x	x	-	NW,SW
shrubby goldenweed												
H. UNIFLORUS (Hook.) T. & G.		R	M	-	-	-	-	-	x	-	-	S
one-flowered goldenweed												
HELENIUM L.: sneezeweed												
H. AUTUMNALE L.	sneezeweed	LC	M	x	-	-	-	-	-	-	-	N,NW
HELIANTHUS L.: sunflower												
H. ANNUUS L.	common sunflower	LC	MX-X	x	X	-	-	-	-	-	-	widespread
H. NUTTALLII T. & G.		I	M	x	-	-	-	-	-	-	-	NW,SW
Nuttall's sunflower												
*H. TUBEROSUS L.	Jerusalem artichoke	I	M	x	-	-	-	-	-	-	-	N
HIERACIUM L.: hawkweed												
H. ALBERTINUM Farr	western hawkweed	I	MX	-	-	x	-	x	-	-	-	WNW,N
H. ALBIFLORUM Hook.	white hawkweed	C	MX	-	-	X	X	X	x	-	-	widespread
*H. AURANTIACUM L.	orange hawkweed	LC	M-MX	x	-	-	-	-	-	-	-	N
H. CANADENSE Michx.		R	MX	-	-	x	x	x	-	-	-	NE,NW,N
Canadian hawkweed												

COMPOSITAE: Continued		Abundance	Habitat Moisture	Zones							Geographic Distribution	
				Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline		Alpine
H. CYNOGLOSSOIDES	Arv.-Touv. hound's tongue hawkweed	C	MX	-	X	X	-	x	x	-	-	widespread
H. GRACILE	Hook. alpine hawkweed	C	M-MX	-	-	-	-	x	X	X	-	widespread
H. SCOULERI	Hook. wooly-weed	I	MX	-	x	x	x	-	-	-	-	SW
H. UMBELLATUM	L. narrow-leaved hawkweed	I	M-MX	-	-	x	x	x	-	-	-	NW
HULSEA T. & G.: hulsea												
H. ALGIDA	Gray alpine hulsea	I	MX	-	-	-	-	-	-	x	x	NW,SW,N
HYPOCHAERIS L.: cat's ear												
*H. RADICATA	L. cat's ear	R	M-MX	x	-	-	-	-	-	-	-	N
IVA L.: poverty-weed, marsh-elder												
I. AXILLARIS	Pursh poverty-weed	R	MX	x	x	-	-	-	-	-	-	N
I. XANTHIFOLIA	Nutt. marsh-elder	I	M	x	x	-	-	-	-	-	-	N,NE
LACTUCA L.: lettuce												
L. BIENNIS	(Moench.) Fern. tall blue lettuce	I	MX	x	x	-	-	-	-	-	-	N,NW
L. PULCHELLA	(Pursh) DC. blue lettuce	I	MX	x	x	-	-	-	-	-	-	N
*L. SERRIOLA	L. prickly lettuce	C	M	X	x	-	-	-	-	-	-	widespread
LAPSANA L.: lapsana												
*L. COMMUNIS	L. nipplewort	I	M	x	-	-	-	-	-	-	-	N
LIATRIS Schreb.: gay-feather												
L. PUNCTATA	Hook. spotted gay-feather	R	X	-	-	x	-	-	-	-	-	S
MACHAERANTHERA Ness: aster												
M. CANESCENS	(Pursh) Gray viscid aster [Aster canescens Pursh]	LC	MX-X	-	x	x	-	-	-	-	-	N,NW
MADIA Mol.: tarweed												
M. EXIGUA	(J.E. Smith) Gray little tarweed	R	MX	-	-	x	-	-	-	-	-	NW

		Zones									
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
COMPOSITAE: continued											
M. GLOMERATA Hook.	I	M	x	x	x	-	-	-	-	-	WNW
M. MINIMA (Gray) Keck small-head tarweed	R	M	-	x	x	-	-	-	-	-	SW
MATRICARIA L.: matricaria											
*M. MARITIMA L. scentless may-weed	I	MX	x	x	x	-	-	-	-	-	N,NW
M. MATRICARIOIDES (Less.) Porter pineapple-weed	C	MX	X	X	-	-	-	-	-	-	widespread
MICROSERIS Don: microseris											
M. CUSPIDATA (Pursh) Schultz-Bip. toothed microseris	I	M	x	-	-	-	-	-	-	-	N
M. NIGRESCENS Hend. black-hairy microseris	I	M	-	-	-	-	x	x	-	-	N,SE,NE
M. NUTANS (Geyer) Schultz-Bip. nodding microseris	C	MX	-	X	X	-	x	x	x	-	widespread
M. TROXIMOIDES Gray false-agoseris	I	M	x	-	-	-	-	-	-	-	NW,S
PETASITES Mill.: coltsfoot											
P. SACITTATUS (Banks) Gray sweet coltsfoot	I	M	x	-	-	x	-	-	-	-	N,NW,SE
PRENANTHES L.: rattlesnake-root											
P. SACITTATA (Gray) A. Nels rattlesnake-root	LC	M	x	-	-	x	x	-	-	-	widespread
RATIBIDA Raf.: coneflower											
R. COLUMNIFERA (Nutt.) Woot. & Standl. coneflower	R	MX	-	x	-	-	-	-	-	-	N
RUDBECKIA L.: coneflower											
R. HIRTA L. black-eyed Susan	I	MX	-	x	x	-	-	-	-	-	NE
R. LACINIATA L. tall coneflower	R	M	x	-	-	-	-	-	-	-	N
R. OCCIDENTALIS Nutt. western coneflower	C	M	-	-	-	x	X	X	-	-	widespread
SAUSSUREA DC.: saussurea, sawwort											
S. AMERICANA Eat. American sawwort	LC	M	-	-	-	-	x	x	-	-	NW,SW

COMPOSITAE: continued

Zones

	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	U. Subalpine	Timberline	Alpine	Geographic Distribution
SENECIO L.: groundsel, butterweed										
S. CANUS Hook.	C	MX-X	- X x - x x X X							widespread
S. CYMBALARIOIDES Buek. [S. subnudus DC.]	LC	H-M	- - - x x x -							widespread
S. FOETIDUS Howell v. HYDROPHILOIDES (Rydb.) Barkley [S. hydrophiloides Rydb.]	I	H-M	x - - x - - -							WNW,N
S. FREMONTII T. & G. Fremont groundsel	I	M-MX	- - - - - x x							NW,SW,S
S. INDECORUS Greene rayless mountain butterweed	LC	M	- - - x - - -							NW,SW
S. INTEGERRIMUS Nutt. v. EXALTATUS (Nutt.) Cronq. lambstongue groundsel	C	M-MX	- x X X x x x -							widespread
S. LUGENS Rich. black-tipped butterweed	R	MX	- - - - - x -							NW
S. MEGACEPHALUS Nutt. large-headed butterweed	I	MX	- - - - x x x -							NW,SW,NE
S. PAUPERCULUS Michx. v. THOMPSONIENSIS (Greene) Boiv. balsam groundsel	I	M	x - - - - - -							NW
S. PSEUDAUREUS Rydb. streambank groundsel	I	M	- - - x x x - -							NE,SW,N
S. SERRA Hook. tall butterweed	I	M	x - - x x - - -							NE,N
S. SPHAEROCEPHALUS Greene mountain-marsh butterweed	I	M	- - - x x x - -							WNW
S. TRIANGULARIS Hook. arrowleaf groundsel	C	H-M	x - - X X X x -							widespread
*S. VULGARIS L. common groundsel	C	M	X X - - - - -							widespread
SOLIDAGO L.: goldenrod										
S. CANADENSIS L. Canada goldenrod	C	M	X - - - - - -							widespread
S. GIGANTEA Ait. v. SEROTINA (Kuntze) Cronq. late goldenrod	I	M	x - - - - - -							NE,NW
S. MISSOURIENSIS Nutt. Missouri goldenrod	C	MX	x X X - x - - -							widespread

Zones

COMPOSITAE: continued

	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
S. MULTIRADIATA Ait. v. SCOPULORUM Gray mountain goldenrod	C	M-MX	-	-	x	-	x	x	x	x	widespread
S. OCCIDENTALIS (Nutt.) T. & G. western goldenrod	LC	H-M	x	-	-	-	-	-	-	-	N,NW
S. SPATHULATA DC. v. NEOMEXICANA (Gray) Cronq. sticky goldenrod	I	MX	-	-	-	-	x	x	-	-	NW
SONCHUS L.: sow-thistle											
*S. ARVENSIS L. field milk-thistle	I	M	x	-	-	-	-	-	-	-	N
*S. ASPER (L.) Hill prickly sow-thistle	C	M	X	-	-	-	-	-	-	-	widespread
*S. OLERACEUS L. common sow-thistle	C	M	X	x	-	-	-	-	-	-	widespread
*S. ULIGINOSUS Bieb. marsh sow-thistle	C	M	X	-	-	-	-	-	-	-	widespread
TANACETUM L.: tansy											
*T. VULGARE L. common tansy	C	M-MX	X	x	x	-	-	-	-	-	widespread
TARAXACUM Hall.: dandelion											
T. CERATOPHORUM (Ledeb.) DC. horned dandelion	I	M	-	-	-	-	x	x	-	-	SW
*T. LAEVIGATUM (Willd.) DC. smooth dandelion	C	M	x	X	X	X	X	x	-	-	widespread
T. LYRATUM (Ledeb.) DC. dwarf alpine dandelion	R	M	-	-	-	-	-	x	x	-	SW
*T. OFFICINALE Weber common dandelion	C	M	X	X	x	x	x	x	x	-	widespread
TETRADYMIA DC.: horse-brush											
T. CANESCENS DC. gray horse-brush	I	MX	-	x	-	-	-	-	-	-	NE
TOWNSENDIA Hook.: townsendia											
T. PARRYI Eat. Parry townsendia	LC	MX	-	x	x	-	x	x	-	-	NW
TRAGOPOGON L.: salsify, goatsbeard											
*T. DUBIUS Scop. yellow salsify	C	M-MX	X	X	x	x	-	-	-	-	widespread
*T. PRATENSIS L. Jack-go-to-bed-at-noon	I	M	x	x	-	-	-	-	-	-	NW

COMPOSITAE: continued

		Zones									
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
XANTHIUM L.: cocklebur											
X. SPINOSUM L.	spiny	cocklebur	R	MX	x	-	-	-	-	-	SE
X. STRUMARIUM L.		cocklebur	I	M	x	-	-	-	-	-	N

CONVOLVULACEAE
Morning-glory Family

CONVOLVULUS L.: morning-glory,
bindweed

*C. ARVENSIS L.	field	bindweed	C	M-MX	X	x	-	-	-	-	widespread
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CORNACEAE
Dogwood Family

CORNUS L.: dogwood

C. CANADENSIS L.	bunchberry		C	M	-	-	x	X	X	-	-	widespread
C. STOLONIFERA Michx.	red-osier	dogwood	C	H-M	X	-	-	X	x	-	-	widespread

CRASSULACEAE
Stonecrop Family

SEDUM L.: stonecrop

*S. ACRE L.	wall-pepper		I	M-MX	x	-	-	-	-	-	-	WNW,N
S. DEBILE Wats.	weakstemmed	stonecrop	R	M-MX	-	-	-	-	-	x	x	NW,SW
S. LANCEOLATUM Torr.	lanceleaf	stonecrop	C	M-MX	-	-	-	X	X	x	x	widespread
S. LEIBERGII Britt.	Leiberg's	stonecrop	I	M-MX	-	x	x	-	x	-	-	NW,N
S. ROSEUM (L.) Scop.	roseroot		I	M-MX	-	-	-	-	-	x	x	SW,N
S. STENOPETALUM Pursh	wormleaf	stonecrop	C	M-MX	-	X	X	-	x	-	-	widespread

CRUCIFERAE (BRASSICACEAE)
Mustard Family

		Zones										
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
ALYSSUM L.: alyssum												
*A. ALYSSEOIDES L.		pale alyssum	C	MX	-	X	-	-	-	-	-	widespread
*A. DESERTORUM Stapf		desert alyssum	LC	MX	-	x	-	-	-	-	-	widespread
ARABIDOPSIS (DC.) Schur: cress												
*A. THALIANA (L.) Schur		thale cress, mouse-ear cress	I	MX	x	x	x	-	x	-	-	NW, WNW, N
ARABIS L.: rockcress												
A. DIVARICARPA Nels.		spreadingpod rockcress	I	M-MX	-	x	x	x	x	x	-	widespread
A. DRUMMONDII Gray		Drummond's rockcress	LC	M-MX	-	-	-	-	x	x	-	widespread
A. FECUNDA ROLLINS		sapphire rockcress	R	X	-	x	-	-	-	-	-	NE
*A. GLABRA (L.) Bernh.		tower mustard	R	MX	-	-	x	-	-	-	-	N
A. HIRSUTA (L.) Scop. v. PYCNOCARPA (Hopkins)		Rollins hairy rockcress	I	M-MX	x	x	x	x	x	x	-	NW
A. HOLBOELLII Hornem. v. COLLINSII (Fern.) Rollins		Holboell's rockcress	C	MX	-	X	x	-	x	-	-	widespread
A. HOLBOELLII Hornem. v. PENDULOCARPA (Nels.) Rollins		Holboell's rockcress	LC	MX	-	x	x	-	x	-	-	widespread
A. HOLBOELLII Hornem. v. RETROFRACTA (Grah.) Rydb.		Holboell's rockcress	I	MX	-	x	x	-	x	x	x	widespread
A. LEMMONII Wats. v. LEMMONII		Lemmon's rockcress	I	M-MX	-	-	-	-	x	x	-	S
A. LYALLII Wats.		Lyall's rockcress	LC	M-MX	-	-	-	-	-	x	x	widespread
A. MICROPHYLLA Nutt. v. MICROPHYLLA		littleleaf rockcress	LC	MX	-	x	x	x	x	-	-	NW
A. MICROPHYLLA Nutt. v. SAXIMONTANA Rollins		littleleaf rockcress	R	MX	-	-	-	-	-	-	x	SW

		Zones								
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
CRUCIFERAE: continued										
A. NUTTALLII Robins. Nuttall's rockcress	C M-MX	-	X	X	-	x	x	X	X	widespread
A. SPARSIFLORA Nutt. v. SUBVILLOSA (Wats.) Rollins Nuttall's rockcress	LC M-MX	-	x	x	x	x	x	-	-	widespread
ATHYSANUS Greene: athysanus										
A. PUSILLUS (Hook.) Greene athysanus	R-I MX	-	x	x	-	-	-	-	-	NW,SW
BARBAREA R. Br.: wintercress										
B. ORTHOCERAS Ledeb. American wintercress	LC M	x	-	-	x	x	-	-	-	widespread
BERTEROA DC.: false hoary alyssum										
*B. INCANA (L.) DC. false hoary alyssum	LC MX	x	x	-	-	-	-	-	-	N
BRASSICA L.: mustard										
*B. CAMPESTRIS L. common mustard	I M-MX	x	x	-	-	-	-	-	-	NNW,N
*B. KABER (DC.) Wheeler charlock	I M-MX	x	x	-	-	-	-	-	-	NW,NE,N
*B. NIGRA (L.) Koch black mustard	I M-MX	x	x	-	-	-	-	-	-	NW
CAMELINA Crantz: false flax										
*C. MICROCARPA Andrz. hairy false flax	C MX	X	X	-	-	-	-	-	-	widespread
CAPSELLA Medic.: shepherd's-purse										
*C. BURSA-PASTORIS (L.) Medic. shepherd's-purse	C M-MX	X	X	-	-	-	-	-	-	widespread
CARDAMINE L.: bittercress										
C. BREWERI Wats. v. BREWERI Brewer's bittercress	LC H-M	-	-	-	x	x	x	-	-	SW,NE,N
C. BREWERI WATS. v. LEIBERGII (Holz.) Hitchc. Brewer's bittercress	R H-M	-	-	-	-	x	-	-	-	S
C. OLIGOSPERMA Nutt. little western bittercress	LC M	x	-	-	x	x	-	-	-	NW
C. PENNSYLVANICA Muhl. Pennsylvania bittercress	C M	x	-	-	x	-	-	-	-	widespread

Zones

CRUCIFERAE: continued

	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
CARDARIA Desv.: white-top												
*C. DRABA (L.) Hand. white-top	C	M-MX	X x	-	-	-	-	-	-	-	-	widespread
*C. PUBESCENS (Myer) Jarm. globepod white-top	I	M-MX	X x	-	-	-	-	-	-	-	-	NE
CHORISPORA R. Br.: purple mustard												
*C. TENELLA (Pall.) DC. purple mustard	I	M-MX	x x	-	-	-	-	-	-	-	-	NE
DESCURAINIA Webb. & Berth.: tansy mustard												
D. PINNATA (Walt.) Britt. v. FILIPES (Gray) Peck western tansy mustard	LC	M-MX	x x	x x	x x	-	-	-	-	-	-	widespread
D. RICHARDSONII (Sweet) Schulz v. SONNEI (Robins.) Hitchc. mountain tansy mustard	I	MX	x x	x x	x x	-	-	-	-	-	-	SW
D. RICHARDSONII (Sweet) Schulz v. VISCOSA (Rydb.) Peck mountain tansy mustard	LC	M-MX	x x	x x	x x	-	-	-	-	-	-	widespread
*D. SOPHIA (L.) Webb. mountain tansy mustard	I	MX	x	-	-	-	-	-	-	-	-	N
DRABA L.: draba, whitlow-grass												
D. APICULATA Hitchc. v. DAVIESIAE Bitterroot draba [D. daviesii (Hitchc.) Rollins]	LC	M-MX	-	-	-	-	-	x	x	x	-	NW,SW
D. CRASSIFOLIA R. Grah. few-seeded draba	R	M	-	-	-	-	-	-	x	x	-	SW
D. INCERTA Pays. Yellowstone draba	I	MX-X	-	-	-	-	-	-	-	-	x	NW,SW,N
D. LONCHOCARPA Rydb. snow draba	I	M	-	-	-	-	-	-	x	x	-	SW,S,NW
D. NEMOROSA L. woods draba	LC	M-MX	x x	x x	x x	-	-	-	-	-	-	widespread
D. OLIGOSPERMA Hook. few-seeded draba	I	MX-X	-	-	-	-	-	x	x	x	-	S,NW,SW
D. PAYSONII Macbr. v. TRELEASII (Schulz) Hitchc. Payson's draba	I	MX	-	x	x	-	x	-	x	-	-	NW,S,N
D. PRAEALTA Greene tall draba	R	M	-	-	-	-	x	-	-	-	-	NE
D. REPTANS (Lam.) Fern. Carolina whitlow grass	R	M	-	-	-	x	-	-	-	-	-	WNW

CRUCIFERAE: continued

		Zones										
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
D. STENOLOBA Ledeb.	slender draba	I	R	x	x	x	x	x	x	-	NW,SW	
D. VERNA L.	vernal whitlow grass	C	M-MX	x	X	x	-	-	-	-	widespread	
ERYSIMUM L.: wallflower												
E. ASPERUM (Nutt.) DC.	plains wallflower	LC	MX-X	-	X	x	-	x	x	x	widespread	
E. CHEIRANTHOIDES L.	treacle mustard	R	MX	x	x	-	-	-	-	-	S	
E. INCONSPICUUM (Wats.) MacM.	small wallflower	I	MX	-	x	-	-	-	-	-	N	
HESPERIS L.: dame's violet												
*H. MATRONALIS L.	dame's violet	I	M-MX	x	-	-	-	-	-	-	SE,N	
IBERIS L.: candytuft												
*I. AMARA L.	candytuft	R	M	-	-	-	x	-	-	-	S	
IDAHOA Nels. & Macbr.: scalepod												
I. SCAPIGERA (Hook.) Nels. & Macbr.	scalepod	R	MX	-	x	x	-	-	-	-	NW	
ISATIS L.: dyer's woad												
*I. TINCTORIA L.	dyer's woad	I	M-MX	-	x	-	-	-	-	-	N	
LEPIDIDIUM L.: peppergrass												
*L. CAMPESTRE (L.) R. Br.	field peppergrass	I	MX	x	x	-	-	-	-	-	N	
L. DENSIFLORUM Schrad.	common peppergrass	C	MX-X	X	X	x	-	-	-	-	widespread	
*L. PERFOLIATUM L.	clasping peppergrass	C	MX-X	X	X	x	-	-	-	-	widespread	
L. RAMOSISSIMUM Nels.	branched peppergrass	I	MX-X	-	x	-	-	-	-	-	N	
L. VIRGINICUM L. v. PUBESCENS (Greene) Hitchc.	Virginia peppergrass	I	MX-X	x	x	-	-	-	-	-	N	
LESQUERELLA Wats.: bladderpod												
L. HUMILIS Rollins	Bitterroot bladderpod	I	MX-X	-	-	-	-	-	-	x	x	NW

CRUCIFERAE: continued

			Zones									
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
PHYSARIA (Nutt.) Gray: twinpod												
P. GEYERI (Hook.) Gray	twinpod	C	MX-X	-	x	x	-	x	-	-	-	SW,NW,NNW, SE
RAPHANUS L.: charlock												
*R. RAPHANISTRUM L.	jointed charlock	I	M	x	x	-	-	-	-	-	-	SE
RORIPPA Scop.: yellowcress												
R. CURVISILIQUA (Hook.) Bessey	western yellowcress	LC	H-M	x	-	-	x	x	-	-	-	SW
R. ISLANDICA (Oed.) Borbas v. GLABRATA (Lunell) Butters & Abbe	marsh yellowcress	LC	H-M	x	-	-	x	-	-	-	-	widespread
R. ISLANDICA (Oed.) Borbas v. HISPIDA (Desv.) Butters & Abbe	marsh yellowcress	LC	H-M	x	-	-	x	-	-	-	-	widespread
*R. NASTURTIUM-AQUATICUM (L.) Schinz & Thell.	watercress	LC	Aq-H	X	-	-	x	-	-	-	-	widespread
R. OBTUSA (Nutt.) Britt. v. OBTUSA	watercress	I	H-M	x	-	-	x	x	-	-	-	NW,SW
R. OBTUSA (Nutt.) Britt. v. ALPINA (Wats.) Britt.	watercress	R	H-M	-	-	-	x	-	-	-	-	SW
R. SINUATA (Nutt.) Hitchc.	spreading yellowcress	R	H-M	x	-	-	-	-	-	-	-	N
*R. SYLVESTRIS (L.) Besser	creeping yellowcress	I	H-M	x	-	-	-	-	-	-	-	N
SISYMBRIUM L.: tumbledustard												
*S. ALTISSIMUM L.	Jim Hill mustard	C	M-X	X	X	-	-	-	-	-	-	widespread
*S. LOESELII L.	tumbledustard	C	M-X	X	X	-	-	-	-	-	-	widespread
SMELOWSKIA C.A. Mey.: smelowskia												
S. CALYCINA (Steph.) C.A. Mey.	alpine smelowskia	LC	MX-X	-	-	-	-	-	-	x	X	NW,SW,N
THLASPI L.: pennycress, fanweed												
*T. ARVENSE L.	pennycress, fanweed	C	M-MX	X	x	-	-	-	-	-	-	widespread

CRUCIFERAE: continued

		Zones										
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
T. FENDLERI Gray v. Hitchc.	GLAUCUM (Nels.) wild candytuft	LC	M-MX	-	x	x	x	x	x	x	-	widespread
T. FENDLERI Gray v. Hitchc.	IDAHOENSE (Pays.) wild candytuft	LC	M-MX	-	-	x	x	x	x	x	-	SW,S

CUCURBITACEAE
Cucumber Family

BRYONIA L.: fence cucumber

*B. ALBA L. fence cucumber R M x - - - - - N

ECHINOCYSTIS T. & G.: wild cucumber

E. LOBATA (Michx.) T. & G. wild cucumber R M x - - - - - N

CUSCUTACEAE
Dodder Family

CUSCUTA L.: dodder

CUSCUTA sp. dodder I MX x - - - - - NW

DIPSACACEAE
Teasel Family

DIPSACUS L.: teasel

*D. SYLVESTRIS Huds. teasel I M-MX - x - - - - - N

KNAUTIA L.: knautia

*K. ARVENSIS (L.) Coult. knautia I M - x x - - - - - SW

DROSERACEAE
Sundew Family

DROSEREA L.: sundew

D. ANGLICA Huds. great sundew R H - - - - - x - - - S

D. ROTUNDIFOLIA L. round-leaved sundew I H - - - x x x - - - WNW,S,N

ELAEAGNACEAE
Oleaster Family

		Zones									
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
ELAEAGNUS L.: elaeagnus											
*E. ANGUSTIFOLIA L.	Russian olive	I	MX	x	-	-	-	-	-	-	N,NE
E. COMMUTATA Bernh.	wolf-willow, silverberry	R	M	x	-	-	-	-	-	-	N
SHEPHERDIA Nutt.: buffalo-berry											
S. CANADENSIS (L.) Nutt.	soapberry, bitter buffalo-berry	C	M-MX	x	x	X	X	X	-	-	widespread

ERICACEAE
Heath Family

ALLOTROPA T. & G.: candystick												
A. VIRGATA T. & G.	candystick	R	M	-	-	x	-	x	x	-	-	SW,S,NW
ARCTOSTAPHYLOS Adans.: bearberry, kinnikinnick												
A. UVA-URSI (L.) Spreng.	bearberry, kinnikinnick	C	MX-X	x	X	X	x	x	x	x	-	widespread
CASSIOPE D. Don: mountain heather												
C. MERTENSIANA (Bong.) G. Don	mountain heather	C	M	-	-	-	-	X	X	x	widespread	
C. TETRAGONA (L.) D. Don	northern mountain heather	I	M	-	-	-	-	-	x	x	NW	
CHIMAPHILA Pursh: prince's-pine												
C. MENZIESII (R. Br.) Spreng.	little prince's pine	I	M	-	-	x	x	x	x	-	-	NW,SW,N
C. UMBELLATA (L.) Bart.	prince's-pine	C	M	-	-	x	X	X	x	-	-	widespread
GAULTHERIA L.: wintergreen												
G. HUMIFUSA (Grah.) Rydb.	alpine wintergreen	LC	N	-	-	x	x	X	x	x	-	widespread
HYPOPITYS Hill: pinesap												
H. MONOTROPA Crantz	pinesap	I	M	-	-	x	x	x	x	-	-	NW,SW,N

ERICACEAE: continued

			Zones									
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
KALMIA L.: laurel												
K. MICROPHYLLA (Hook.) Heller swamp laurel [K. polifolia Wang. v. microphylla (Hook.) Rehd.]	LC	H-M	-	-	-	x	x	x	x	x	-	widespread
LEDUM L.: labrador-tea												
L. GLANDULOSUM Nutt. trapper's tea	LC	H-M	-	-	-	x	X	X	x	-	-	widespread
MENZIESIA Smith: menziesia												
M. FERRUGINEA Smith v. GLABELLA (Gray) Peck fool's huckleberry	C	M	-	-	-	x	X	X	-	-	-	widespread
MONOTROPA L.: Indian-pipe												
M. UNIFLORA L. Indian-pipe	R	M	-	-	-	x	-	-	-	-	-	NW
PHYLLODOCE Salisb.: mountain-heath												
P. EMPETRIFORMIS (Sw.) D. Don pink mountain-heath	C	M	-	-	-	-	x	X	x	x	-	widespread
P. GLANDULIFLORA (Hook.) Cov. yellow mountain-heath	C	M-MX	-	-	-	-	-	x	X	x	-	widespread
P. X INTERMEDIA (Hook.) Camp hybrid mountain-heath	I	M	-	-	-	-	-	-	-	x	x	NW, SW, S
PTEROSPORA Nutt.: pinedrops												
P. ANDROMEDA Nutt. pinedrops	LC	M-MX	-	X	x	-	x	-	-	-	-	widespread
PYROLA L.: pyrola, wintergreen												
P. ASARIFOLIA Michx. v. ASARIFOLIA pink pyrola	C	H-M	X	-	x	X	X	-	-	-	-	widespread
P. ASARIFOLIA Michx. v. PURPUREA (Bunge) Fern. red pyrola	I	H-M	-	-	x	x	x	-	-	-	-	widespread
P. CHLORANTHA Sw. greenish pyrola [P. virens Schweigg.]	LC	M	-	-	x	x	x	x	-	-	-	widespread
P. DENTATA Smith toothleaf pyrola	I	MX	-	-	x	-	x	x	-	-	-	widespread
P. ELLIPTICA Nutt. white pyrola	LC	H-M	x	-	-	x	-	-	-	-	-	widespread
P. MINOR L. lesser wintergreen	LC	M	-	-	-	x	x	x	-	-	-	widespread
P. PICTA Smith white-vein pyrola	I	MX	-	-	x	-	x	x	-	-	-	widespread

		Zones								
		Abundance	Habitat Moisture	Valley-moist Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution
ERICACEAE: continued										
P. SECUNDA L. v. SECUNDA	sidebells pyrola	C	M-MX	- x x X X x	- -	- -	- -	- -	- -	widespread
P. SECUNDA L. v. OBTUSATA Turcz.	sidebells pyrola	I	M-MX	- - x x x	- -	- -	- -	- -	- -	widespread
P. UNIFLORA L.	woodnymph [Moneses uniflora (L.) Gray]	I	H-M	- - - x x x	- -	- -	- -	- -	- -	widespread
RHODODENDRON L.: rhododendron, azalea										
R. ALBIFLORUM Hook.	white rhododendron	LC	M	- - - - x x	- -	- -	- -	- -	- -	widespread
VACCINIUM L.: huckleberry, blueberry, bilberry, grouseberry										
V. CAESPITOSUM Michx.	dwarf huckleberry	C	M-MX	- - X x x x	- -	- -	- -	- -	- -	widespread
V. GLOBULARE Rydb.	huckleberry	C	M	- - X X X x	- -	- -	- -	- -	- -	widespread
V. MYRTILLUS L.	dwarf bilberry	I	M	- - - x x x x	- -	- -	- -	- -	- -	NW,N
V. OCCIDENTALE Gray	western blueberry	I	H-M	- - - - - x x	- -	- -	- -	- -	- -	NW,SW,N
V. SCOPARIUM Leiberg	grouseberry	C	M-MX	- - x x X X x	- -	- -	- -	- -	- -	widespread
EUPHORBIACEAE Spurge Family										
EUPHORBIA L.: spurge										
*E. CYPARISSIAS L.	cypress spurge	I	MX	x - - - - -	- -	- -	- -	- -	- -	N,NW
*E. ESULA L.	leafy spurge	LC	MX	x X x x - - - -	- -	- -	- -	- -	- -	widespread
E. GLYPTOSPERMA Engelm.	corrugate-seeded spurge	C	MX-X	x X - - - - -	- -	- -	- -	- -	- -	widespread
*E. PEPLUS L.	petty spurge	I	MX	x - - - - -	- -	- -	- -	- -	- -	N
E. ROBUSTA (Engelm.) Small	Rocky Mountain spurge	R	MX-X	- x - - - - -	- -	- -	- -	- -	- -	N
E. SERPYLLIFOLIA Pers.	thyme-leaf spurge	C	MX-X	x X - - - - -	- -	- -	- -	- -	- -	N
E. SUPINA Raf.	milk spurge	R	MX-X	x - - - - -	- -	- -	- -	- -	- -	N

FUMARIACEAE
Fumitory Family

Zones

	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
CORYDALIS Medic.: corydalis											
C. AUREA Willd. golden corydalis	I	M	x	-	-	x	-	-	-	-	WNW,SW,N
DICENTRA Bernh.: steer's head											
D. UNIFLORA Kell. steer's head	I	M	-	-	-	-	x	x	-	-	WNW,NW, SW,N
GENTIANACEAE Gentian Family											
FRASERA Walt.: frasera											
F. ALBICAULIS Dougl. white-stemmed frasera	LC	MX	-	-	x	-	x	-	-	-	SW,SE,S
F. SPECIOSA Dougl. green gentian	I	M	-	-	-	-	x	x	-	-	NE,SE
GENTIANA L.: gentian											
G. AFFINIS Griseb. pleated gentian	I	M	-	x	x	-	x	x	-	-	NE,SE
G. ALGIDA Pall. white gentian	R	M	-	-	-	-	-	-	-	x	SW
G. AMARELLA L. northern gentian [Gentianella amarella (L.) Borner]	I	M	x	-	x	x	x	-	-	-	NW,SE,N
G. CALYCOSA Griseb. mountain gentian	LC	H-M	-	-	-	-	x	x	x	-	widespread
SWERTIA L.: swertia											
S. PERENNIS L. swertia	I	H-M	-	-	-	-	x	x	-	-	NE,SE
GERANIACEAE Geranium Family											
ERODIUM L'Her.: crane's-bill											
*E. CICUTARIUM (L.) L'Her. crane's-bill	C	M-MX	X	X	-	-	-	-	-	-	widespread
GERANIUM L.: geranium											
G. BICKNELLII Britt. Bicknell's geranium	C	MX	X	X	x	-	-	-	-	-	widespread
G. CAROLINIANUM L. Carolina geranium	I	MX	x	-	-	x	-	-	-	-	NW
*G. MOLLE L. dovefoot geranium	I	MX	x	-	-	x	-	-	-	-	NE,S
*G. PUSILLUM Burm. small-flowered geranium	I	M	x	-	-	-	-	-	-	-	N

		Zones									
		Abundance	Habitat Moisture	Valley-moist Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution	
GERANIACEAE: continued											
*G. ROBERTIANUM L.	Robert geranium	I	M	x	-	-	-	-	-	N	
G. VISCOSISSIMUM F. & M. v. VISCOSISSIMUM	sticky geranium	C	MX	x	X	X	-	X	x	x	widespread
G. VISCOSISSIMUM F. & M. v. NERVOSUM (Rydb.) Hitchc.	sticky geranium	C	MX	x	X	X	-	X	-	-	widespread

GROSSULARIACEAE
Gooseberry Family

RIBES L.: currant, gooseberry

R. AMERICANUM Mill.	black currant	R	M	x	-	-	-	-	-	N
R. AUREUM Pursh	golden currant	I	M-MX	x	x	-	-	-	-	NW,SW, NE,N
R. CEREUM Dougl. v. CEREUM	squaw currant	I	M-MX	x	x	x	x	x	-	NW
R. CEREUM Dougl. v. INEBRIANS (Lindl.) Hitchc.	squaw currant	C	MX-X	-	X	X	x	x	x	NE,N,NW
R. HENDERSONII Hitchc.	Henderson's gooseberry	R	MX	-	-	-	-	x	x	NE,S
R. HUDSONIANUM Richards.	western black currant	LC	H-M	x	-	-	x	x	-	widespread
R. INNERME Rydb.	white-stemmed gooseberry	LC	M-MX	x	-	-	x	x	-	NW,N
R. IRRIGUUM Dougl.	Idaho gooseberry	LC	M-MX	x	x	x	x	x	-	N,WNW,NW
R. LACUSTRE (Pers.) Poir.	swamp currant	C	M-MX	x	-	-	X	X	x	widespread
*R. SATIVUM (Reichb.) Syme	common currant	I	M	x	-	-	-	-	-	NW,N
R. SETOSUM Lindl.	Missouri gooseberry	LC	MX-X	-	x	x	-	x	-	NW,SW
R. VISCOSISSIMUM Pursh	sticky currant	C	M	-	-	x	X	X	-	widespread

		Zones										
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
HALORAGACEAE												
Water-milfoil Family												
MYRIOPHYLLUM L.: water-milfoil												
*M. BRASILIENSE Camb.	R	Aq	x	-	-	-	-	-	-	-	-	NE
South American water-milfoil												
M. SPICATUM L. spiked water-milfoil	LC	Aq	x	-	-	-	-	-	-	-	-	widespread
HIPPURIDACEAE												
Mare's-tail Family												
HIPPURIS L.: mare's-tail												
H. VULGARIS L. mare's tail	LC	Aq	X	-	-	-	-	-	-	-	-	widespread
HYDRANGEACEAE												
Hydrangea Family												
PHILADELPHUS L.: syringa, mock orange												
P. LEWISII Pursh syringa, mock orange	C	MX	x	X	X	x	x	-	-	-	-	widespread
HYDROPHYLLACEAE												
Waterleaf Family												
HESPEROCHIRON Wats.: hesperochiron												
H. PUMILUS (Griseb.) Porter dwarf hesperochiron	I	MX	-	-	-	x	x	-	-	-	-	SW
HYDROPHYLLUM L.: waterleaf												
H. CAPITATUM Dougl. ballhead waterleaf	C	MX	-	X	x	x	x	x	-	-	-	widespread
NEMOPHILA Nutt.: nemophila												
N. BREVIFLORA Gray Great Basin nemophila	I	M	x	x	x	x	-	-	-	-	-	SW
PHACELIA Juss.: phacelia, scorpionweed												
P. FRANKLINII (R. Br.) Gray Franklin's phacelia	I	M	x	-	x	x	x	-	-	-	-	SE,S,NE
P. HASTATA Dougl. v. ALPINA (Rydb.) Cronq. alpine phacelia	C	MX-X	-	-	x	-	X	X	x	x	-	widespread
P. HASTATA Dougl. v. HASTATA silverleaf phacelia	C	MX-X	-	X	x	-	x	-	-	-	-	widespread

Zones

	Abundance	Habitat Moisture	Valley-moist Valley-dry Montane-dry Montane-moist L. Subalpine U. Subalpine Timberline Alpine	Geographic Distribution
HYDROPHYLLACEAE: continued				
P. HETEROPHYLLA Pursh Virgate phacelia	C	MX-X	- X X - - - - -	widespread
P. LINEARIS (Pursh) Holz. sand phacelia	C	MX-X	- X X - - - - -	widespread
P. LYALLII (Gray) Rydb. Lyll's phacelia	LC	M-MX	- - - - - x x	widespread
ROMANZOFFIA Cham.: mistmaiden				
R. SITCHENSIS Bong. Sitka mistmaiden	R	M	- - - - - x x	SW,N
HYPERICACEAE				
St. John's-wort Family				
HYPERICUM L.: St. John's-wort				
H. ANAGALLOIDES C. & S. bog St. John's-wort	I	H-M	- - - x x x - -	NW
H. FORMOSUM H.B.K. ssp. SCOULERI (Hook.) Hitchc. v. scouleri western St. John's-wort	I	M	- - - x x - - -	NW
H. FORMOSUM H.B.K. ssp. SCOULERI (Hook.) Hitchc. v. NORTONIAE (Jones) Hitchc. western St. John's-wort	LC	M-MX	- - - - - x x -	NW,SW,N
H. MAJUS (Gray) Britt. Canada St. John's-wort	I	M	x - - - - - -	NW
*H. PERFORATUM L. goatweed	C	MX	x X x x - - - -	widespread
LABIATAE (LAMIACEAE)				
Mint Family				
AGASTACHE Clayton: horse-mint				
A. URTICIFOLIA (Benth.) Kuntze nettle-leaved horse-mint	C	M-MX	- - - X X - - -	widespread
DRACOCEPHALUM L.: dragonhead				
D. PARVIFLORUM Nutt. dragonhead [Moldavica parviflora (Nutt.) Britt.]	I	M	x - - x - - - -	NE,N,S
GALEOPSIS L.: hemp nettle				
*G. TETRAHIT L. hemp nettle	I	M	x - - x x - - -	N,NW

LABIATAE: continued

			Abundance	Habitat Moisture	Zones							Geographic Distribution
					Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	
GLECOMA L.: ground ivy												
*G. HEDERACEA L.	ground ivy		I	M	x	-	-	-	-	-	-	N,NW
LAMIUM L.: henbit												
*L. AMPLEXICAULE L.	common henbit		C	M	x	-	-	-	-	-	-	widespread
*L. PURPUREUM L.	red henbit		I	M	x	-	-	-	-	-	-	N
LEONURUS L.: motherwort												
*L. CARDIACA L.	motherwort		I	M	x	-	-	-	-	-	-	N
LYCOPUS L.: water horehound, bugleweed												
L. AMERICANUS Muhl.	water horehound		C	H-M	X	-	-	-	-	-	-	widespread
L. ASPER Greene	rough bugleweed		C	H-M	X	-	-	-	-	-	-	widespread
L. UNIFLORUS Michx.	northern bugleweed		I	H-M	x	-	-	x	-	-	-	N
MARRUBIUM L. horehound												
*M. VULGARE L.	horehound		I	M	x	-	-	-	-	-	-	N,NW
MENTHA L.: mint												
M. ARVENSIS L.	field mint		C	H-M	X	-	-	x	-	-	-	widespread
*M. PIPERITA L.	peppermint		I	M	x	-	-	-	-	-	-	SW
MONARDA L.: monarda												
M. FISTULOSA L.	wild bergamot		C	M-X	-	X	X	-	-	-	-	widespread
NEPETA L.: catnip												
*N. CATARIA L.	catnip		I	M-MX	x	x	-	-	-	-	-	NW,NE,N
PHYSOSTEGIA Benth.: purple dragonhead												
P. PARVIFLORA Nutt.	purple dragonhead		LC	H-M	x	-	-	-	-	-	-	NW
PRUNELLA L.: self-heal, heal-all												
P. VULGARIS L.	self-heal, heal-all		C	M	X	-	x	x	x	-	-	widespread
SALVIA L.: sage												
*S. SCLAREA L.	clary		R	MX	-	x	-	-	-	-	-	NW

LABIATAE: continued

		Zones									
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
SATUREJA L.: savory											
	S. DOUGLASII (Benth.) Briq.	R	MX	-	x	-	-	-	-	-	SW
	yerba buena										
SCUTELLARIA L.: skullcap											
	S. GALERICULATA L. marsh skullcap	I	H-M	x	-	-	-	-	-	-	NW,N
STACHYS L.: hedge-nettle, woundwort											
	S. PALUSTRIS L. v. PILOSA (Nutt.) Fern. hedge-nettle, woundwort	C	H-M	X	-	-	-	-	-	-	widespread
LEGUMINOSAE (FABACEAE) Pea Family											
ASTRAGALUS L.: milkvetch, locoweed											
	A. ADSURGENS Hook. standing milkvetch [A. striatus Nutt.]	I	M	-	x	x	-	-	-	-	NW
	A. AGRESTIS Dougl. purple milkvetch [A. dasyglottis Fisch.]	I	M-MX	x	x	-	-	-	-	-	NW,NE
	A. ALPINUS L. alpine milkvetch	I	M	-	-	-	x	x	-	-	NE,S,SE
	A. CANADENSIS L. v. MORTONII (Nutt.) Wats. Canada milkvetch	LC	M	-	-	x	x	x	-	-	widespread
	A. CIBARIUS Sheld. browse milkvetch	I	MX	-	x	-	-	-	-	-	N
	A. DRUMMONDII Hook. Drummond's milkvetch	I	MX	-	x	x	-	-	-	-	N
	A. INFLEXUS Dougl. hairy milkvetch	I	MX	-	x	-	-	-	-	-	NW,S, NE,N
	A. KENTROPHYTA Gray v. IMPLEXUS (Canby) Barneby thistle milkvetch [A. tegetarius Wats.]	I	MX-X	-	-	-	-	-	-	x	NW,SW
	A. MICROCYSTIS Gray least bladdery milkvetch	I	MX-X	-	x	x	-	-	-	-	N,NW
	A. MISER Dougl. v. HYLOPHILUS (Rydb.) Barneby weedy milkvetch	C	MX	-	X	X	-	x	x	-	widespread
	A. MISER Dougl. v. PRAETERITUS Barneby weedy milkvetch	LC	MX	-	-	x	-	x	-	-	SW,S

LEGUMINOSAE: continued		Zones								
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution
A. MISER Dougl. v. SEROTINUS (Gray) Barneby weedy milkvetch	I	MX	-	-	x	-	x	-	-	SE
A. PURSHII Dougl. v. PURSHII wooly-pod milkvetch	LC	M-X	-	x	x	-	-	-	-	NE,N
CARAGANA Raf.: pea tree										
*C. ARBORESCENS Lam. Siberian pea tree	I	M	x	-	-	-	-	-	-	NE
CORONILLA L.: crown vetch										
*C. VARIA L. crown vetch	R	M	x	-	-	-	-	-	-	NE,NW
GLYCYRRHIZA L.: licorice										
G. LEPIDOTA Pursh wild licorice	C	M	X	-	-	-	-	-	-	widespread
HEDYSARUM L.: sweetvetch										
H. OCCIDENTALE Greene western sweetvetch	LC	M	-	-	x	x	x	x	-	NW,SW,NE
LATHYRUS L.: peavine										
*L. LATIFOLIUS L. everlasting peavine	I	M	x	-	-	-	-	-	-	NW
L. OCHROLEUCUS Hook. cream-flowered peavine	I	M	x	-	-	-	-	-	-	NE
LUPINUS L.: lupine										
L. ARGENTEUS Pursh v. ARGENTEUS silvery lupine	C	MX	-	X	X	-	x	x	-	widespread
L. ARGENTEUS Pursh v. DEPRESSUS (Rydb.) Hitchc. silvery lupine	LC	MX	-	x	x	-	x	x	-	NW
L. ARGENTEUS Pursh v. STENOPHYLLUS (Rydb.) Davis silvery lupine	I	MX	-	x	-	-	-	-	-	NW,S
L. LAXIFLORUS Dougl. v. PSEUDOPARVIFLORUS (Rydb.) Smith & St. John spurred lupine	I	M-MX	-	x	x	-	-	-	-	N,NE
L. LEPIDUS Dougl. v. UTAHENSIS (Wats.) Hitchc. Pacific lupine	R	MX	-	-	-	-	x	x	-	NW
L. LEUCOPHYLLUS Dougl. velvet lupine	I	MX	-	x	-	-	-	-	-	NW,SE,NE
L. POLYPHYLLUS Lindl. v. POLYPHYLLUS Washington lupine	I	M	x	-	-	-	-	-	-	N,W,NW

Zones

LEGUMINOSAE: continued

	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
L. POLYPHYLLUS Lindl. v. BURKEI (Wats.) Hitchc. Washington lupine	C	M	-	-	-	x	X	X	-	-	-	widespread
L. PUSILLUS Pursh rusty lupine	R	MX	-	-	-	-	x	-	-	-	-	WNW
L. SERICEUS Pursh blue-bonnet	C	MX	-	X	x	-	x	x	-	-	-	widespread
L. SULPHUREUS Dougl. v. SUBSACCATUS (Suksd.) Hitchc. sulphur lupine	R	MX	-	-	-	-	x	-	-	-	-	SE
L. WYETHII Wats. Wyeth's lupine	C	MX	-	x	-	-	-	-	-	-	-	N,NW
MEDICAGO L.: medic, alfalfa												
*M. LUPULINA L. black medic	C	M	X	X	-	-	-	-	-	-	-	widespread
*M. SATIVA L. alfalfa	C	MX	X	x	-	-	-	-	-	-	-	widespread
MELILOTUS Mill.: sweet-clover												
*M. ALBA Desr. white sweet-clover	C	MX-X	X	X	-	-	-	-	-	-	-	widespread
*M. OFFICINALIS (L.) Lam. yellow sweet-clover	C	MX-X	X	X	-	-	-	-	-	-	-	widespread
ONOBRYCHIS Adans.: sainfoin												
*O. VICIAEFOLIA Scop. sainfoin	I	MX	x	x	-	-	-	-	-	-	-	NE
OXYTROPIS DC.: crazyweed												
O. BESSEYI (Rydb.) Blank. v. BESSEYI Bessey's crazyweed	I	MX	-	x	-	-	-	-	-	-	-	NE
O. DEFLEXA (Pall.) DC. v. FOLIOSA (Hook.) Barneby pendent-pod crazyweed	I	M	x	x	x	x	x	-	-	-	-	NE
O. SERICEA Nutt. silky crazyweed	I	MX	-	x	-	-	-	-	-	-	-	N
O. VISCIDA Nutt. sticky crazyweed	I	MX-X	-	-	-	-	-	x	x	-	-	S,SE
ROBINIA L.: locust												
*R. PSEUDO-ACACIA L. black locust	I	MX	x	x	-	-	-	-	-	-	-	NW
THERMOPSIS R. Br.: golden-pea												
T. MONTANA Nutt. mountain golden-pea	R	MX	x	x	-	-	-	-	-	-	-	N
TRIFOLIUM L.: clover												
*T. AGRARIUM L. hop clover	LC	MX	-	x	x	-	-	-	-	-	-	SW,S,N

Zones

LEGUMINOSAE: continued

	Abundance	Habitat Moisture	Valley-moist Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
T. CYATHIFERUM Lindl. cup clover	I	MX	- - x	x x	x x	- -	- -	- -	- -	SW
T. ERIOCEPHALUM Nutt. v. PIPERI Martin wooly-head clover	I	M	- - -	- -	x x	- -	- -	- -	- -	S,SW
*T. FRAGIFERUM L. strawberry clover	I	M-X	x x	- -	- -	- -	- -	- -	- -	N
T. GYMNOCARPON Nutt. hollyleaf clover	I	MX	- -	x -	x -	- -	- -	- -	- -	SW,S
*T. HYBRIDUM L. alsike clover	C	M	X X	x x	- -	- -	- -	- -	- -	widespread
T. LONGIPES Nutt. v. LONGIPES longstalk clover	I	M	- -	x x	x x	x x	- -	- -	- -	widespread
T. LONGIPES Nutt. v. REFLEXUM Nels. longstalk clover	C	M	- -	x x	X x	x x	- -	- -	- -	widespread
T. MICROCEPHALUM Pursh wooly clover	R	M-X	x x	- -	- -	- -	- -	- -	- -	WNW
*T. PRATENSE L. red clover	C	M	X X	x x	- -	- -	- -	- -	- -	widespread
*T. PROCUMBENS L. low hop clover	I	M	x x	x -	- -	- -	- -	- -	- -	NW,NE
*T. REPENS L. white clover	C	M	X X	x x	x x	- -	- -	- -	- -	widespread
T. VARIEGATUM Nutt. white-tip clover	I	M	x -	- -	- -	- -	- -	- -	- -	N,SW

VICIA L.: vetch

V. AMERICANA Muhl. American vetch	LC	M-MX	x x	x x	x x	- -	- -	- -	- -	widespread
*V. CRACCA L. bird vetch	I	MX	x -	- -	- -	- -	- -	- -	- -	N
*V. SATIVA L. v. ANGUSTIFOLIA (L.) Wahlenb. common vetch	I	M	x -	- -	- -	- -	- -	- -	- -	N,NW
*V. VILLOSA Roth hairy vetch	I	M	x -	- -	- -	- -	- -	- -	- -	N,NE

LENTIBULARIACEAE
Bladderwort Family

UTRICULARIA L.: bladderwort

U. MINOR L. little bladderwort	I	Aq	x -	- -	- -	- -	- -	- -	- -	NE
U. VULGARIS L. common bladderwort	C	Aq	X -	- -	- -	- -	- -	- -	- -	NW

Zones

LIMNANTHACEAE
Meadow-foam Family

FLOERKEA Willd.: false-mermaid

Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
I	H-M	x	-	-	x	-	-	-	-	-	NW,N

F. PROSERPINACOIDES Willd.
false-mermaidLINACEAE
Flax Family

LINUM L.: flax

I	MX-X	-	x	x	-	-	x	x	-	-	SW
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L. PERENNE L. wild blue flax

LOASACEAE
Blazing-star Family

MENTZELIA L.: blazing-star

I	MX-X	-	x	-	-	-	-	-	-	-	NW
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M. ALBICAULIS Dougl.
whitestem blazing-star

I	MX-X	-	-	x	-	-	-	-	-	-	SW,S,N
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M. DISPERSA Wats.
small-flowered blazing-star

I	MX-X	-	x	-	-	-	-	-	-	-	NE,N
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M. LAEVICAULIS (Dougl.) T. & G.
smooth-stem blazing -starLORANTHACEAE
Mistletoe Family

ARCEUTHOBIUM Bieb.: dwarf mistletoe

C	M	-	-	X	x	X	x	-	-	-	widespread
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A. AMERICANUM Nutt.
American dwarf mistletoe

I	M	-	-	x	x	x	-	-	-	-	NW
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A. CAMPYLOPODUM Engelm. f. LARICIS
(Piper) Gill.
western dwarf mistletoe

C	M-MX	-	-	X	x	x	-	-	-	-	widespread
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A. DOUGLASII Engelm.
Douglas' dwarf mistletoeMALVACEAE
Mallow Family

ILIAMNA Greene: hollyhock

I	M	x	-	-	x	-	-	-	-	-	NE,SE,NW WNW,SW,N
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I. RIVULARIS (Dougl.) Greene
mountain hollyhock

			Zones											
			Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
MALVACEAE: continued														
MALVA L.: mallow														
*M. NEGLECTA	Wallr.	common mallow	C	MX	X	-	-	-	-	-	-	-	-	widespread
*M. PARVIFLORA	L.	alkali mallow	C	MX	X	-	-	-	-	-	-	-	-	widespread
SPHAERALCEA St. Hil.: globe-mallow														
S. COCCINEA	(Pursh)	Rydb.	I	MX-X	-	x	-	-	-	-	-	-	-	NE,N
														scarlet globe-mallow, cowboy's delight
MENYANTHACEAE														
Buck-bean Family														
MENYANTHES L.: buck-bean														
M. TRIFOLIATA	L.	buck-bean	I	H	-	-	-	x	x	-	-	-	-	WNW,S,N
MORACEAE														
Mulberry Family														
HUMULUS L.: hop														
*H. LUPULUS	L.	hops	I	M	x	-	-	-	-	-	-	-	-	NW
NYCTAGINACEAE														
Four-O'Clock Family														
MIRABILIS L.: four-o'clock														
M. NYCTAGINEA	(Michx.)	Macmillan	R	MX	-	x	-	-	-	-	-	-	-	N
														heart-leaved four-o'clock
NYMPHAEACEAE														
Water-lily Family														
BRASENIA Schreb.: water-shield														
B. SCHREBERI	Gmel.	water-shield	R	Aq	x	-	-	x	-	-	-	-	-	SW
NUPHAR J.E. Smith: pond-lily														
N. POLYSEPALUM	Engelm.	Indian pond-lily	LC	Aq	x	-	-	x	x	x	-	-	-	widespread
N. VARIEGATUM	Engelm.	yellow pond-lily	R	Aq	x	-	-	-	-	-	-	-	-	SW

OLEACEAE
Ash Family

FRAXINUS L.: ash

*F. PENNSYLVANICA Marsh.	green ash	R	M	x	-	-	-	-	-	-	-	N
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ONAGRACEAE
Evening-primrose Family

CIRCAEA L.: enchanter's nightshade

C. ALPINA L.	enchanter's nightshade	LC	M	x	-	x	x	-	-	-	-	WNW,NW, N,SE
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CLARKIA Pursh: clarkia

C. PULCHELLA Pursh	clarkia, elkhorns, ragged robbin	LC	MX	-	x	x	-	-	-	-	-	widespread
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EPILOBIUM L.: willow-herb

E. ALPINUM L. v. ALPINUM	alpine willow-herb	I	M	-	-	-	-	-	-	-	x	x	widespread
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E. ALPINUM L. v. CLAVATUM (Trel.)	Hitchc. alpine willow-herb	C	M	-	-	-	-	-	x	X	X	widespread
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E. ALPINUM L. v. LACTIFLORUM	(Hausskn.) Hitchc. alpine willow-herb	C	M	-	-	x	X	X	X	-	-	widespread
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E. ALPINUM L. v. NUTANS (Hornem.)	Hook. alpine willow-herb	LC	M	-	-	-	-	-	x	x	-	widespread
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E. ANGUSTIFOLIUM L.	fireweed	C	M-MX	x	x	X	X	X	x	x	-	widespread
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E. GLABERRIMUM Barbey v. FASTIGIATUM	(Nutt.) Trel. smooth willow-herb	I	M	-	-	-	x	x	x	x	-	widespread
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E. GLABERRIMUM Barbey v. GLABERRIMUM	smooth willow-herb	I	M	-	-	-	x	x	x	-	-	widespread
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E. GLANDULOSUM Lehm. v. GLANDULOSUM	common willow-herb	C	M	-	-	-	X	X	X	x	-	widespread
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E. GLANDULOSUM Lehm. v. TENUE	(Trel.) Hitchc. common willow-herb	R	M	-	-	-	-	-	-	x	-	SW
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E. MINUTUM Lindl.	small-flowered willow-herb	I	MX	-	-	-	x	x	-	-	-	NW,SW
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E. PALUSTRE L.	swamp willow-herb	I	H-M	x	-	-	x	x	-	-	-	SW
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E. PANICULATUM Nutt.	autumn willow-herb	C	H-M	x	X	x	-	-	-	-	-	widespread
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		Zones											
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
ONAGRACEAE: continued													
E. SUFFRUTICOSUM Nutt.	shrubby willow-herb	R	H-M	x	-	-	-	-	-	-	-	-	NW,N
E. WATSONII Barbey v. OCCIDENTALE (Trel.) Hitchc.	northern willow-herb	C	H-M	X	-	-	X	-	-	-	-	-	widespread
GAURA L.: gaura													
G. COCCINEA (Nutt.) Pursh	butterfly-weed, scarlet gaura	I	MX-X	-	x	-	-	-	-	-	-	-	N,NE
GAYOPHYTUM Juss.: gayophytum, groundsmoke													
G. DIFFUSUM T. & G.	spreading groundsmoke	I	MX	-	x	x	-	x	-	-	-	-	SW
G. HUMILE Juss.	dwarf groundsmoke [G. nuttallii T. & G.]	C	MX	-	X	X	-	-	x	-	-	-	widespread
G. RACEMOSUM T. & G.	racemed groundsmoke	I	MX	-	x	x	-	-	x	-	-	-	SW
OENOTHERA L.: evening-primrose													
O. ANDINA Nutt.	obscure evening-primrose [Camissonia andina (Nutt.) Raven]	R	MX-X	-	x	-	-	-	-	-	-	-	N
O. FLAVA (Nels.) Garrett	long-tubed evening-primrose	R	M-MX	-	x	-	-	-	-	-	-	-	SE
*O. PERENNIS L.	sundrops	R	M	x	-	-	-	-	-	-	-	-	NW
O. STRIGOSA Mkze. & Bush	yellow evening-primrose [O. biennis L.]	C	MX	X	x	x	x	-	-	-	-	-	widespread
O. SUBACAULIS (Pursh) Garrett	long-leaved evening-primrose	R	M-MX	x	-	-	-	-	-	-	-	-	S

OROBANCHACEAE
Broomrape Family

OROBANCHE L.: broomrape													
O. FASCICULATA Nutt.	clustered broomrape	I	MX	-	x	x	-	-	-	-	-	-	NW,NE,N
O. UNIFLORA L.	naked broomrape	I	M	-	-	x	x	x	x	-	-	-	NW,SW,N

Zones

	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
OXALIDACEAE Wood-sorrel Family											
OXALIS L.: wood-sorrel											
*O. CORNICULATA L. yellow wood-sorrel	I	M	x	-	-	-	-	-	-	-	N
O. DILLENII Jacq. Dillen's wood-sorrel	I	M	x	-	-	-	-	-	-	-	N
PAPAVERACEAE Poppy Family											
CHELIDONIUM L.: celandine											
*C. MAJUS L. celandine	R	M	x	-	-	-	-	-	-	-	N
PAPAVER L.: poppy											
*P. ARGEMONE L. prickly-headed poppy	R	M	x	-	-	-	-	-	-	-	NE
*P. RHOEAS L. corn poppy	R	M	x	-	-	-	-	-	-	-	NW
PLANTAGINACEAE Plantain Family											
PLANTAGO L.: plantain											
P. ARISTATA Michx. large-bracted plantain	R	X	-	x	-	-	-	-	-	-	N
P. HIRTELLA H.B.K Mexican plantain	R	M	-	-	x	-	-	-	-	-	SE
*P. LANCEOLATA L. English plantain	C	M	X	x	-	-	-	-	-	-	widespread
*P. MAJOR L. v. MAJOR common plantain	C	M	X	x	x	x	-	-	-	-	widespread
P. MAJOR L. v. PACHYPHYLLA Pilger common plantain	I	H-M	x	-	-	-	-	-	-	-	NW,NE
P. PATAGONICA Jacq. v. PATAGONICA Indian wheat	C	MX	-	X	-	-	-	-	-	-	widespread
P. PATAGONICA Jacq. v. SPINULOSA (Dcne.) Gray Indian wheat	I	MX	-	x	-	-	-	-	-	-	widespread
POLEMONIACEAE Phlox Family											
COLLOMIA Nutt.: collomia											
C. DEBILIS (Wats.) Greene v. DEBILIS alpine collomia	R	MX	-	-	-	-	-	-	-	x	SW

		Zones											
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
POLEMONIACEAE: continued													
C. DEBILIS (Wats.) Greene v. CAMPORUM Pays.	weak collomia	R	MX	-	-	x	-	x	-	-	-	-	S
C. GRANDIFLORA Dougl.	large-flowered collomia	I	MX-X	-	-	x	-	x	-	-	-	-	S
C. LINEARIS Nutt.	narrow-leaved collomia	C	MX-X	-	X	X	-	-	-	-	-	-	widespread
GILIA R. & P.: gilia													
G. AGGREGATA (Pursh) Spreng.	fairy-trumpet, scarlet gilia	LC	MX	-	x	x	-	-	-	-	-	-	widespread
G. SPICATA Nutt. v. ORCHIDACEA (Brand) Cronq.	spiked gilia	LC	MX	-	x	x	-	-	-	-	-	-	widespread
G. TENERRIMA Gray	delicate gilia	I	MX	-	x	x	-	-	-	-	-	-	NW,S
LEPTODACTYLON H. & A.: leptodactylon													
L. PUNGENS (Torr.) Nutt.	prickly phlox	I	MX-X	-	x	x	-	x	-	-	-	-	SE,S,NE
LINANTHASTRUM Ewan: linanthastrum													
L. NUTTALLII (Gray) Ewan Nuttall's linanthastrum		I	MX	-	x	x	-	x	x	x	-	-	NW,NE,S
LINANTHUS Benth.: linanthus													
L. SEPTENTRIONALIS Mason	northern linanthus	C	MX	-	x	x	-	X	X	-	-	-	widespread
MICROSTERIS Greene: microsteris													
M. GRACILIS (Hook.) Greene	pink microsteris	C	MX	x	X	X	x	x	-	-	-	-	widespread
PHLOX L.: phlox													
P. CAESPITOSA Nutt.	tufted phlox	I	MX	-	x	x	-	-	-	-	-	-	N,SW
P. DIFFUSA Benth. v. LONGISTYLIS (Wherry) Peck	spreading phlox	LC	M-MX	-	-	x	x	x	X	X	-	-	N,NW,WNW, SW,S
P. HOODII Rich.	Hood's phlox	I	MX-X	-	x	-	-	-	-	-	-	-	NE,WNW
P. KELSEYI Britt. v. MISSOULENSIS (Wherry) Cronq.	Missoula phlox	I	MX	-	x	x	-	-	-	-	-	-	N

POLEMONIACEAE: continued

		Zones							
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Alpine	Geographic Distribution
P. LONGIFOLIA Nutt. long-leaved phlox	LC MX	-	x	-	-	-	-	-	SW,SE,S
P. PULVINATA (Wherry) Cronq. cushion phlox	I MX-X	-	-	-	-	-	-	x x	NW,SW
POLEMONIUM L.: polemonium, Jacob's ladder									
P. MICRANTHUM Benth. annual polemonium	LC MX	x	x	-	-	-	-	-	N,NE,NW
P. OCCIDENTALE Greene western polemonium	LC M	x	-	-	x	x	-	-	widespread
P. PULCHERRIMUM Hook. v. PULCHERRIMUM jacob's ladder	LC MX	-	X	x	-	x	-	-	widespread
P. PULCHERRIMUM Hook. v. CALYGINUM (Eastw.) Brand jacob's ladder	LC M-MX	-	-	-	-	x	x	x	widespread
P. VISCOSUM Nutt. sky pilot	I MX-X	-	-	-	-	-	-	x x	NW,SW,N

POLYGONACEAE
Buckwheat Family

ERIOGONUM Michx.: buckwheat

E. CHRYSOPS Rydb. golden wild buckwheat	I MX-X	-	-	-	-	-	-	-	x	NW
E. FLAVUM Nutt. v. PIPERI (Greene) Jones sulphurflower	I MX	-	-	-	-	x	x	x	-	NW,SW,N
E. OVALIFOLIUM Nutt. v. OVALIFOLIUM silver plant, cushion buckwheat	I MX-X	-	x	x	-	x	-	-	-	NW,N
E. OVALIFOLIUM Nutt. v. DEPRESSUM Blank. silver plant, cushion buckwheat	LC MX-X	-	-	-	-	-	x	x	x	NW,SW,S
E. PYROLAEOFOLIUM Hook. v. CORYPHEUM T. & G. alpine buckwheat	LC M-MX	-	-	-	-	-	x	x	x	NW,SW
E. STRICTUM Benth. ssp. PROLIFERUM (T. & G.) Stokes v. PROLIFERUM strict buckwheat	R MX-X	-	-	x	-	x	-	-	-	S

POLYGONACEAE: continued		Zones										
		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
E. UMBELLATUM Torr. v. STELLATUM (Benth.) Jones [E. umbellatum Torr. v. croceum (Small) Stokes]	sulphur buckwheat	I	MX	-	x	x	-	-	-	-	-	SW,S
E. UMBELLATUM Torr. v. SUBALPINUM (Greene) Jones	umbrella plant	C	MX-X	-	X	X	-	x	x	-	-	widespread
OXYRIA Hill: mountain sorrel												
O. DIGYNA (L.) Hill	mountain sorrel	LC	M	-	-	-	-	-	x	x	x	widespread
POLYGONUM L.: knotweed, smartweed												
P. ACHOREUM Blake	knotweed	C	MX-X	x	X	-	-	-	-	-	-	widespread
P. AMPHIBIUM L. [P. natans Eat.]	water smartweed	LC	H	x	-	-	-	-	-	-	-	widespread
P. AVICULARE L.	dooryard knotweed	C	M-MX	X	X	x	x	-	-	-	-	widespread
P. BISTORTOIDES Pursh	American bistort	LC	M-MX	-	x	x	-	x	x	x	x	widespread
P. COCCINEUM Muhl.	water smartweed	I	H	x	-	-	-	-	-	-	-	N
P. CONFERTIFLORUM Nutt.	closeflowered knotweed	R	M	-	-	-	-	x	x	-	-	SW
*P. CONVULVULUS L.	black bindweed	C	M	X	X	-	-	-	-	-	-	widespread
P. DOUGLASII Greene v. DOUGLASII Douglas' knotweed		LC	M-MX	-	x	x	-	-	x	-	-	widespread
P. DOUGLASII Greene v. LATIFOLIUM (Engelm.) Greene	Douglas' knotweed	LC	M-MX	-	x	x	-	-	x	-	-	widespread
P. ERECTUM L.	erect knotweed	I	MX-X	-	x	-	-	-	-	-	-	N
*P. HYDROPIPER L.	marshpepper smartweed	LC	H	x	-	-	-	-	-	-	-	NW
P. HYDROPIPEROIDES Michx.	waterpepper smartweed	LC	H-M	x	-	-	-	-	-	-	-	widespread
P. KELLOGGII Greene	Kellogg's knotweed	LC	M	x	x	x	x	x	x	-	-	widespread
*P. LAPATHIFOLIUM L.	willow weed	LC	H-M	x	-	-	-	-	-	-	-	N,NW
P. MAJUS (Meisn.) Piper	Palouse knotweed	I	MX	-	x	x	-	-	-	-	-	SW,NW

Zones

POLYGONACEAE: continued

	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
P. MINIMUM Wats. leafy dwarf knotweed	LC	M-MX	-	-	-	-	x	x	x	-	NW,SW
P. PERSICARIA L. heartweed	I	H-M	x	-	-	-	-	-	-	-	NW
P. PHYTOLACCAEFOLIUM Meisn. alpine knotweed	LC	M-MX	-	-	-	-	-	x	x	-	NW,WNW, SW,S
P. PUNCTATUM Ell. dotted smartweed	C	M	X	-	-	-	-	-	-	-	widespread
P. RAMOSISSIMUM Michx. bushy knotweed	I	M-MX	x	x	-	-	-	-	-	-	N
P. SAWATCHENSE Small sawatch knotweed	I	MX	-	x	x	-	-	-	-	-	N
P. VIVIPARUM L. alpine bistort	I	M	-	-	-	-	x	x	-	-	NE
P. WATSONII Small water knotweed	I	M	-	-	x	x	x	-	-	-	SW
RUMEX L.: dock, sorrel											
*R. ACETOSA L. sour dock	I	M	x	-	-	-	-	-	-	-	N
*R. ACETOSELLA L. sheep sorrel	C	M-MX	X	X	x	x	-	-	-	-	widespread
*R. CRISPUS L. curly dock	C	M	X	-	-	x	-	-	-	-	widespread
R. MARITIMUS L. golden dock	I	M	x	-	-	x	-	-	-	-	N,NW,SW
R. OBTUSIFOLIUS L. bitter dock	R	M	x	-	-	-	-	-	-	-	NW,N
R. OCCIDENTALIS Wats. western dock	I	M	x	-	-	-	-	-	-	-	NW
R. SALICIFOLIUS Weinm. v. TRIANGULIVALVIS Danser willow dock	LC	M	x	-	-	x	x	x	-	-	widespread
*R. SANGUINEUS L. red-veined dock	R	M	x	-	-	-	-	-	-	-	N
R. VENOSUS Pursh veiny dock	R	MX	x	x	-	-	-	-	-	-	N

PORTULACACEAE
Purslane Family

CLAYTONIA L.: springbeauty

C. LANCEOLATA Pursh springbeauty	C	M-MX	-	-	x	x	X	X	X	-	widespread
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PORTULACACEAE: continued

Zones

	Abundance	Habitat Moisture	Valley-moist Valley-dry Montane-dry Montane-moist L. Subalpine U. Subalpine Timberline Alpine	Geographic Distribution
LEWISIA Pursh: lewisia, bitterroot				
L. COLUMBIANA (Howell) Robins. v. WALLOWENSIS Hitchc. Columbia lewisia	R	M-MX	- - - x - - - -	SW
L. PYGMAEA (Gray) Robins. v. PYGMAEA pygmy bitterroot	I	MX	- - - - - x x -	NW,SW
L. PYGMAEA (Gray) Robins. v. NEVADENSIS (Gray) Fosberg Nevada bitterroot	R	MX	- - - x x - - -	NW,S
L. REDIVIVA Pursh bitterroot	C	MX-X	- X X - - - - -	NW,SW,N
L. TRIPHYLLA (Wats.) Robins. three-leaved bitterroot	I	MX	- - - - - x x -	NW,SW
MONTIA L.: montia, miner's lettuce				
M. CHAMISSOI (Ledeb.) Robins. Chamisso's miner's lettuce	R	M	- - x x - - - -	SW
M. CORDIFOLIA (Wats.) Pax. & Hoffm. broad-leaved miner's lettuce [Claytonia cordifolia Wats.]	C	M	x - - X x x - -	widespread
M. DICHOTOMA (Nutt.) Howell dwarf miner's lettuce	I	M	x - - - - - - -	NW
M. LINEARIS (Dougl.) Greene narrow-leaved miner's lettuce	C	M-MX	X X x x - - - -	widespread
M. PARVIFOLIA (Moc.) Greene littleleaf miner's lettuce	LC	M	- x x x x x x -	widespread
M. PERFOLIATA (Donn) Howell miner's lettuce [Claytonia perfoliata Donn]	C	M	X x x x - - - -	widespread
M. SIBIRICA (L.) Howell Siberian miner's lettuce [Claytonia sibirica L.]	I	M	- - - x x - - -	WNW,NW,N
PORTULACA L.: purslane				
*P. OLERACEA L. purslane	C	M-MX	X - - - - - - -	widespread

PORTULACACEAE: continued

Zones

	Abundance	Habitat Moisture	Valley-moist Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
SPRAGUEA Torr.: pussypaws											
S. UMBELLATA Torr. v. UMBELLATA umbellate pussypaws	I	M-MX	- - - - -	- - - - -	- - - - -	x	x	-	-	NW,S	
S. UMBELLATA Torr. v. CAUDICIFERA Gray Mt. Hood pussypaws	I	M-MX	- - - - -	- - - - -	- - - - -	x	x	-	-	NW	
PRIMULACEAE Primrose Family											
ANDROSACE L.: androsace											
A. FILIFORMIS Retz. fairy-candelabra	LC	M	x	-	-	x	x	-	-	widespread	
A. OCCIDENTALIS Pursh western androsace	LC	MX-X	-	X	x	-	x	-	-	widespread	
A. SEPTENTRIONALIS L. northern androsace	I	MX-X	-	x	x	-	x	x	-	NE,SE	
DODECATHEON L.: shooting star											
D. CONJUGENS Greene v. VISCIDUM (Piper) Mason prairie shooting star	C	MX	x	X	x	-	-	-	-	widespread	
D. CUSICKII Greene Cusick's shooting star	R	M	-	x	-	-	-	-	-	NW	
D. JEFFREYI van Houtte Jeffrey's shooting star	C	H-M	-	-	-	X	X	x	x	widespread	
D. PULCHELLUM (Raf.) Merrill v. PULCHELLUM woodland shooting star	C	M-MX	X	x	x	X	X	x	-	widespread	
D. PULCHELLUM (Raf.) Merrill v. WATSONII (Tidestrom) Hitchc. alpine shooting star	C	M-MX	-	-	-	-	X	X	X	widespread	
DOUGLASIA Lindl.: douglasia											
D. MONTANA Gray Rocky Mountain douglasia	LC	MX-X	-	x	x	-	-	-	x	x	widespread
LYSIMACHIA L.: loosestrife											
L. CILIATA L. fringed loosestrife [Steironema ciliatum (L.) Raf.]	LC	H-M	x	-	-	-	-	-	-	N,NW,NE	
L. THRYSIFLORA L. tufted loosestrife	I	H-M	x	-	-	-	-	-	-	NE	

PRIMULACEAE: continued

PRIMULA L.: primrose

	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
P. PARRYI Gray	I	M	-	-	-	-	-	-	-	x	x	SW

RANUNCULACEAE
Buttercup Family

ACONITUM L.: monkshood

A. COLUMBIANUM Nutt. v. COLUMBIANUM blue monkshood	I	M	-	-	-	x	x	-	-	-	-	NNW,SW
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A. COLUMBIANUM Nutt. v. OCHROLEUCUM A. Nels. yellow monkshood	LC	M	-	-	-	x	x	x	-	-	-	SW
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ACTAEA L.: baneberry

A. RUBRA (Ait.) Willd. baneberry	C	M	x	-	-	X	X	-	-	-	-	widespread
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ANEMONE L.: anemone, pasqueflower

A. CYLINDRICA Gray thimbleweed	I	M-MX	x	x	-	-	-	-	-	-	-	N,NE
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A. DRUMMONDII Wats. v. LITHOPHILA (Rydb.) Hitchc. Drummond's anemone	I	M	-	-	-	-	-	-	x	x	-	NW,SW,N
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A. MULTIFIDA Poir. v. MULTIFIDA Pacific anemone	LC	M-MX	-	x	x	-	x	-	-	-	-	widespread
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A. NUTTALLIANA DC. pasqueflower [A. patens L., Pulsatilla patens (L.) Miller]	LC	M-MX	-	x	x	-	x	-	-	-	-	widespread
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A. OCCIDENTALIS Wats. western pasqueflower	I	M	-	-	-	-	x	x	x	-	-	NW,SW,N
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A. PARVIFLORA Michx. northern anemone	I	MX-X	-	-	-	-	-	-	x	-	-	N
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A. PIPERI Britt. piper anemone	LC	M	-	-	x	x	x	-	-	-	-	WNW,NW, SW,S
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AQUILEGIA L.: columbine

A. FLAVESCENS Wats. yellow columbine	C	M	-	-	x	x	X	X	x	-	-	widespread
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RANUNCULACEAE: continued

			Zones									
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
CALTHA L.: marshmarigold												
C. BIFLORA DC. v. ROTUNDIFOLIA (Huth) Hitchc. twinflowered marshmarigold	R	H-M	- - - -	- - - -	- - - -	- - - -	x	- - - -	- - - -	- - - -	- - - -	NW
C. LEPTOSEPALA DC. elkslip	LC	H-M	- - - -	- - - -	- - - -	- - - -	x	x	x	x	x	NW,SW,N
CLEMATIS L.: clematis, virgin's-bower												
C. COLUMBIANA (Nutt.) T. & G. Columbia virgin's-bower	C	M	x - X	X	x	x	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
C. HIRSUTISSIMA Pursh sugarbowls	I	M-MX	- x x	- x	- x	- x	- - - -	- - - -	- - - -	- - - -	- - - -	N
C. LIGUSTICIFOLIA Nutt. white virgin's-bower	C	M	X - -	x - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
COPTIS Salis.: yellowthread												
C. OCCIDENTALIS (Nutt.) T. & G. yellowthread	LC	M	- - x	x	x	x	- - - -	- - - -	- - - -	- - - -	- - - -	WNW,NW,SW
DELPHINIUM L.: larkspur												
D. BICOLOR Nutt. low larkspur	C	MX	- X	x - x	- x	X	x -	- - - -	- - - -	- - - -	- - - -	widespread
D. NUTTALLIANUM Pritz. v. FULVUM Hitchc. upland larkspur	I	MX	- - x	- x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	SW
D. OCCIDENTALE Wats. tall larkspur	I	M	- - - -	- x	x - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NW,SW,S
MYOSURUS L.: mouse-tail												
M. ARISTATUS Benth. sedge mouse-tail	I	MX	x - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NW
M. MINIMUS L. common mouse-tail	I	MX	x - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NW
RANUNCULUS L.: buttercup, crowfoot												
R. ABORTIVUS L. kidney-leaved buttercup	C	M	x - -	X	x - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
R. ACRIFORMIS Gray v. MONTANENSIS (Rydb.) Benson sharp-leaf buttercup	LC	M	x - -	x	x - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
*R. ACRIS L. tall buttercup	LC	M	X - -	x - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
R. ALISMAEFOLIUS Geyer v. ALISMELLUS Gray plantain-leaved buttercup	LC	M	- - - -	- x	x - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	SE,S

RANUNCULACEAE: continued		Zones								
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution
R. ALISMAEFOLIUS Geyer v. DAVISII Benson plantain-leaved buttercup	I	M	-	-	-	-	x	x	-	SW
R. AQUATILIS L. v. CAPILLACEUS (Thuill.) DC. white water buttercup	LC	Aq	x	-	-	-	-	-	-	widespread
R. CYMBALARIA Pursh shore buttercup	LC	H-M	x	-	-	x	-	-	-	widespread
R. ESCHSCHOLTZII Schlecht. v. ESCHSCHOLTZII subalpine buttercup	I	M	-	-	-	-	x	x	-	NW
R. ESCHSCHOLTZII Schlecht. v. SUKSDORFII (Gray) Benson subalpine buttercup	C	M	-	-	-	-	X	X	-	widespread
R. FLABELLARIIS Raf. yellow water-buttercup	I	Aq	x	-	-	-	-	-	-	N,NE,SW
R. FLAMMULA L. spearwort buttercup	LC	Aq-H	x	-	-	x	x	x	-	widespread
R. GLABERRIMUS Hook. v. GLABERRIMUS sagebrush buttercup	C	MX	-	X	x	-	x	-	-	widespread
R. GLABERRIMUS Hook. v. ELLIPTICUS Greene sagebrush buttercup	C	MX	-	X	x	-	x	x	-	widespread
R. GMELINII DC. v. HOOKERI (G. Don) Benson Gmelin's buttercup	LC	Aq-H	x	-	-	-	-	-	-	widespread
R. INAMOENUS Greene unlovely buttercup	I	M	-	-	-	x	x	-	-	NE,SE
R. LONGIROSTRIS Godr. long-beaked water-buttercup	I	Aq	x	-	-	-	-	-	-	N
R. MACOUNII Britt. Macoun's buttercup	C	H-M	X	-	-	X	-	-	-	widespread
R. NATANS Mey. floating water-buttercup	I	Aq	x	-	-	x	-	-	-	NW
R. ORTHORHYNCHUS Hook. straightbeak buttercup	R	M	x	-	-	x	-	-	-	WNW
R. PENNSYLVANICUS L. bristly buttercup	I	M	x	-	-	x	x	-	-	NW
R. POPULAGO Greene mountain buttercup	LC	M	-	-	-	x	x	-	-	widespread

Zones

RANUNCULACEAE: continued		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
R. PYGMAEUS	Wahlenb. dwarf buttercup	R	M	-	-	-	-	-	-	-	-	x	SW
*R. REPENS	L. creeping buttercup	LC	M	x	-	-	-	-	-	-	-	-	widespread
R. SCELERATUS	L. celery-leaved buttercup	I	H-M	x	-	-	-	-	-	-	-	-	N
*R. TESTICULATUS	Crantz hornseed buttercup	I	MX	-	x	-	-	-	-	-	-	-	N,NE
R. UNCINATUS	D. Don little buttercup	C	M	x	-	-	X	X	-	-	-	-	widespread
THALICTRUM L.: meadowrue													
T. DASYCARPUM	Fisch. & Ave-Lall. tall meadowrue	LC	M	x	-	-	-	-	-	-	-	-	NW,SW,NE
T. OCCIDENTALE	Gray western meadowrue	C	M-MX	X	x	X	X	X	x	-	-	-	widespread
T. SPARSIFLORUM	Turcz. few-flowered meadowrue	R	M	-	-	-	-	x	-	-	-	-	S
T. VENULOSUM	Trel. veiny meadowrue	R	M	-	-	-	-	x	-	-	-	-	S
TRAUTVETTERIA Fisch. & Mey.: false bugbane													
T. CAROLINIENSIS	(Walt.) Vail. false bugbane	I	M	x	-	-	x	x	-	-	-	-	NW
TROLLIUS L.: globeflower													
T. LAXUS	Salisb. v. ALBIFLORUS Gray American globeflower	LC	M	-	-	-	x	x	x	x	-	-	widespread

RHAMNACEAE
Buckthorn Family

CEANOTHUS L.: buckbrush													
C. VELUTINUS	Dougl. buckbrush	C	MX	-	x	X	x	x	-	-	-	-	widespread
RHAMNUS L.: buckthorn													
R. ALNIFOLIA	L'Her. alder buckthorn	LC	H-M	x	-	-	x	x	-	-	-	-	widespread
*R. CATHARTICA	L. European buckthorn	R	M	x	-	-	-	-	-	-	-	-	N

ROSACEAE
Rose Family

		Zones									
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
AMELANCHIER Medic.: Serviceberry											
A.	ALNIFOLIA Nutt. v. ALNIFOLIA serviceberry	C	MX	X	X	X	X	x	-	-	widespread
A.	ALNIFOLIA Nutt. v. CUSICKII (Fern.) Hitchc. serviceberry	C	MX	X	X	X	X	x	x	-	widespread
A.	ALNIFOLIA Nutt. v. PUMILA (Nutt.) Nels. serviceberry	I	MX	-	x	x	-	-	-	-	WNW
CERCOCARPUS H.B.K.: mountain-mahogany											
C.	LEDIFOLIUS Nutt. v. INTERCEDENS Schneid. mountain-mahogany	LC	MX-X	-	x	x	-	x	x	-	SE,SW,S,NE
CRATAEGUS L.: hawthorn											
C.	COLUMBIANA Howell Columbia hawthorn	R	MX	x	-	-	-	-	-	-	N
C.	DOUGLASII Lindl. river hawthorn	C	M	X	x	-	x	-	-	-	widespread
*C.	MONOZYNA Jacq. European hawthorn	R	M-X	x	x	-	-	-	-	-	N
DRYAS L.: mountain-avens, dryad											
D.	OCTOPETALA L. v. ANGUSTIFOLIA Hitchc. mountain-avens	LC	MX-X	-	-	-	-	-	x	x	NW,SW
FRAGARIA L.: strawberry											
F.	VESCA L. v. BRACTEATA (Heller) Davis woods strawberry	C	M-MX	x	X	X	X	X	-	-	widespread
F.	VIRGINIANA Durchasesne v. PLATYPETALA (Rydb.) Hall blueleaf strawberry	C	M-MX	-	X	X	X	X	-	-	widespread
F.	VIRGINIANA Duchesne v. GLAUCA Wats. broadpetal strawberry	I	M-MX	-	-	x	x	x	x	-	NE,NW
GEUM L.: avens											
G.	ALEPPICUM Jacq. yellow avens	I	H-M	x	-	-	x	-	-	-	NW
G.	MACROPHYLLUM Willd. large-leaved avens	C	M	X	-	-	x	x	-	-	widespread
G.	RIVALE L. water avens	I	H-M	x	-	-	x	x	x	-	NW,NE,N
G.	ROSSII (R. Br.) Ser. v. ROSSII Ross's avens	I	MX-X	-	-	-	-	-	x	x	NW,SW

		Abundance	Zones							Geographic Distribution
			Habitat Moisture	Valley-moist Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	
ROSACEAE: continued										
G. ROSSII (R. Br.) Ser. v. TURBINATUM (Rydb.) Hitchc. [G. turbinatum Rydb.] Ross's avens	C	MX-X	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	x X	NW,SW,S	
G. TRIFLORUM Pursh. v. CILIATUM (Pursh) Fassett prairie smoke, old man's whiskers	C	M-MX	- X X - x x - -	- - - - -	- - - - -	- - - - -	- - - - -	- -	widespread	
HOLODISCUS Maxim.: ocean-spray										
H. DISCOLOR (Pursh) Maxim. mountain-spray	C	MX-X	- - X X - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- -	widespread	
IVESIA T. & G.: ivesia										
I. GORDONII (Hook.) T. & G. ivesia	I	MX-X	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	x x	NW,SW,S	
LUETKEA Bong.: partridge-foot										
L. PECTINATA (Pursh) Kuntze partridge-foot	LC	M	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	x x x -	NW,SW	
PETROPHYTUM (Nutt.) Rydb.: rockmat										
P. CAESPITOSUM (Nutt.) Rydb. rockmat	I	MX-X	- - x - x x x x	- - - - -	- - - - -	- - - - -	- - - - -	- -	NW,SW	
PHYSOCARPUS Maxim.: ninebark										
P. MALVACEUS (Greene) Kuntze	C	M-MX	x X X X x - - -	- - - - -	- - - - -	- - - - -	- - - - -	- -	widespread	
POTENTILLA L.: cinquefoil										
P. ANSERINA L. silverweed	I	M	x - - - - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- -	N,NE	
*P. ARGENTEA L. silvery cinquefoil	I	MX	- x x - - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- -	S,NW	
P. ARGUTA Pursh v. CONVALLARIA (Rydb.) Wolf tall cinquefoil	LC	MX	- x - - - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- -	NW,N	
P. BIENNIS Greene biennial cinquefoil	I	M	x - - - - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- -	N,NW	
P. CONCINNA Richards. v. DIVISA Rydb. early cinquefoil	R	MX	- - x - x - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- -	S	
P. CONCINNA Richards. v. MACOUNII (Rydb.) Hitchc. early cinquefoil	R	MX-X	- - - - - - - -	- - - - -	- - - - -	- - - - -	- - - - -	x	NW	
P. DIVERSIFOLIA Lehm. v. DIVERSIFOLIA varileaf cinquefoil	C	M-MX	- - - - - x X X X	- - - - -	- - - - -	- - - - -	- - - - -	- -	widespread	

ROSACEAE: continued

		Zones										
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
P. DIVERSIFOLIA Lehm. v. PERIDISSECTA (Rydb.) Hitchc. varileaf cinquefoil	I	M-MX	-	-	-	-	-	-	-	x	x	SW
P. FLABELLIFOLIA Hook. fanleaf cinquefoil	C	H-M	-	-	-	-	-	X	X	-	-	widespread
P. FRUTICOSA L. shrubby cinquefoil	LC	M-MX	-	x	x	-	x	x	x	x	x	widespread
P. GLANDULOSA Lindl. v. INTERMEDIA (Rydb.) Hitchc. sticky cinquefoil	C	MX	-	X	X	-	x	-	-	-	-	widespread
P. GLANDULOSA Lindl. v. PSEUDORUPESTRIS (Rydb.) Breit. sticky cinquefoil	C	MX-X	-	-	x	-	x	x	x	x	x	widespread
P. GRACILIS Dougl. v. ELMERI (Rydb.) Jeps. Elmer's cinquefoil	C	M	X	X	-	-	-	-	-	-	-	widespread
P. GRACILIS Dougl. v. FLABELLIFORMIS (Lehm.) Nutt. fan-shaped cinquefoil	I	M	-	-	x	x	-	-	-	-	-	SW
P. GRACILIS Dougl. v. PERMOLLIS (Rydb.) Hitchc. soft cinquefoil	I	M	x	-	-	-	-	-	-	-	-	NW
P. GRACILIS Dougl. v. PULCHERRIMA (Lehm.) Fern. soft cinquefoil	I	M	x	x	-	-	-	-	-	-	-	NW
P. HIPPIANA Lehm. wooly cinquefoil	R	MX	-	x	x	-	-	-	-	-	-	NW
*P. NORVEGICA L. Norwegian cinquefoil	C	M	x	-	-	x	-	-	-	-	-	widespread
P. PALUSTRIS (L.) Scop. marsh cinquefoil	I	H-M	x	-	-	x	x	-	-	-	-	NW,NE,S,N
P. PENNSYLVANICA L. prairie cinquefoil	I	MX-X	-	x	x	-	-	-	-	-	-	N
*P. RECTA L. sulphur cinquefoil	C	MX-X	X	X	x	-	-	-	-	-	-	widespread
P. RIVALIS Nutt. brook cinquefoil	I	M	x	-	-	-	-	-	-	-	-	NW,SW
PRUNUS L.: cherry, plum												
P. AMERICANA Marsh. wild plum	R	M-X	x	x	-	-	-	-	-	-	-	NW
*P. AVIUM L. sweet cherry	R	M	x	-	-	-	-	-	-	-	-	N
*P. CERASUS L. sour cherry	R	M	x	-	-	-	-	-	-	-	-	SW

		Zones											
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
ROSACEAE: continued													
P. EMARGINATA (Dougl.) Walp.	bitter cherry	LC	M-MX	-	x	x	-	-	-	-	-	-	NW,SW,N
*P. MAHALEB L.	Mahaleb cherry	R	M	x	-	-	-	-	-	-	-	-	NW
P. VIRGINIANA L. v. MELANOCARPA (Nels.) Sarg.	chokecherry	C	M-MX	X	X	x	x	-	-	-	-	-	widespread
PURSHIA DC.: bitterbrush													
P. TRIDENTATA (Pursh) DC.	bitterbrush	LC	MX	-	x	x	-	x	-	-	-	-	NE,SE,S
PYRUS L.: pear, apple													
*P. MALUS L.	cultivated apple	I	M	x	-	-	-	-	-	-	-	-	N,NW
ROSA L.: rose													
R. ACICULARIS Lindl.	prickly rose	R	M	-	-	x	x	-	-	-	-	-	N
R. GYMNOCARPA Nutt.	baldhip rose	C	M	-	x	x	X	X	-	-	-	-	widespread
R. NUTKANA Presl v. HISPIDA Fern.	Nutka rose	I	M	-	-	x	x	-	-	-	-	-	NW,WNW
R. WOODSII Lindl.	Wood's rose	C	M-MX	X	X	X	X	x	-	-	-	-	widespread
RUBUS L.: raspberry, blackberry													
R. IDAEUS L. v. GRACILIPES Jones	red raspberry	C	M-MX	x	x	X	X	x	x	x	x	-	widespread
R. IDAEUS L. v. PERAMOENUS (Greene) Fern.	red raspberry	I	M	x	-	-	-	-	-	-	-	-	NW
R. LEUCODERMIS Dougl.	blackcap	I	MX-X	-	-	-	x	-	-	-	-	-	N
R. PARVIFLORUS Nutt.	thimbleberry	C	M	-	-	x	X	X	-	-	-	-	widespread
SANGUISORBA L.: burnet													
S. OCCIDENTALIS Nutt.	Western burnet	I	MX	-	x	-	-	-	-	-	-	-	N,WNW
SIBBALDIA L.: sibbaldia													
S. PROCUMBENS L.	creeping sibbaldia	LC	M-MX	-	-	-	-	-	x	x	x	x	NW,SW,S,N
SORBUS L.: mountain-ash													
*S. AUCUPARIA L.	Rowan tree	I	M	x	-	-	-	-	-	-	-	-	N

		Zones										
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
ROSACEAE: continued												
S. SCOPULINA Greene Cascade mountain ash	LC	M-MX	- - x	X x x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
S. SITCHENSIS Roemer Sitka mountain ash	I	M	x - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	WNW,NW
SPIRAEA L.: spiraea												
S. BETULIFOLIA Pall. white spiraea	C	M-MX	x x X	X x x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
S. DENSIFLORA Nutt. subalpine spiraea	C	M	- - x	X X x	x x -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
S. DOUGLASII Hook. v. MENZIESII (Hook.) Presl pink spiraea	I	H-M	- - -	x x -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	WNW
RUBIACEAE Madder Family												
GALIUM L.: bedstraw, cleavers												
G. APARINE L. cleavers	C	M	X - -	x - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
G. ASPERRIMUM Gray rough bedstraw	C	M	x x X	X x -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
G. BIFOLIUM Wats. thinleaf bedstraw	C	MX	X X x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
G. BOREALE L. northern bedstraw	C	MX	- X X	- x -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
G. TRIFIDUM L. small cleavers	C	M	X - -	x x x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	NNW,SW,N
G. TRIFLORUM Michx. fragrant bedstraw	C	M	x x x	X x -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
*G. VERUM L. yellow bedstraw	R	M-MX	- x -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	N
SALICACEAE Willow Family												
POPULUS L.: poplar, aspen, cottonwood												
P. TREMULOIDES Michx. quaking aspen	C	M	x x x	X X -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
P. TRICHOCARPA T. & G. black cottonwood	C	M	X x x	x - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	widespread
SALIX L.: willow												
*S. ALBA L. v. VITELLINA (L.) Stokes yellow-twigged willow	I	M	x - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	N,NW,NE
S. AMYGDALOIDES Anderss. peach-leaf willow	I	M	x - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	N,NE

SALICACEAE: continued

		Zones									
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
R	M	-	-	-	-	-	-	-	-	x	SW
S. ARCTICA Pall. v. PETRAEA Anderss. Arctic willow											
I	M	x	-	-	-	-	-	-	-	-	N
S. BEBBIANA Sarg. v. BEBBIANA Bebb willow											
C	M	X	-	-	x	-	-	-	-	-	widespread
S. BEBBIANA Sarg. v. PERROSTRATA (Rydb.) Schneid. Bebb willow											
R	H-M	-	-	-	-	x	-	-	-	-	SE
S. BRACHYCARPA Nutt. short-fruited willow											
LC	H-M	-	-	-	x	x	x	x	x	-	NW,SW
S. COMMUTATA Bebb. undergreen willow											
C	H-M	x	-	-	X	x	-	-	-	-	widespread
S. DRUMMONDIANA Barratt Drummond willow											
C	H-M	X	-	-	-	-	-	-	-	-	widespread
S. EXIGUA Nutt. sandbar willow											
LC	H-M	-	-	-	-	x	x	-	-	-	N,NE,SE,S
S. FARRIAE Ball Farr's willow											
LC	H-M	x	-	-	x	x	-	-	-	-	widespread
S. GEYERIANA Anderss. Ceyer willow											
I	H-M	-	-	-	x	x	-	-	-	-	NW
S. LASIANDRA Benth. v. LASIANDRA whiplash willow											
C	H-M	x	-	-	X	x	-	-	-	-	widespread
S. LASIANDRA Benth. v. CAUDATA (Nutt.) Sudw. whiplash willow											
LC	H-M	-	-	-	-	x	x	x	-	-	widespread
S. MONTICOLA Bebb mountain willow											
R	M	-	-	-	-	-	-	-	x	-	NW
S. MYRTILLIFOLIA Anderss. [S. boothii Dorn] blueberry willow											
I	M-MX	-	-	-	-	-	-	-	x	x	SW
S. NIVALIS Hook. snow willow											
I	M	-	-	-	-	-	x	x	-	-	SE
S. PHYLICIFOLIA L. ssp. PLANIFOLIA (Pursh) Hiitonen v. PLANIFOLIA tea-leaved willow											
I	M	-	-	-	x	x	x	-	-	-	NW
S. PHYLICIFOLIA L. ssp. PLANIFOLIA (Pursh) Hiitonen v. MONICA (Bebb) Jeps. tea-leaved willow											
C	H-M	X	-	-	X	x	-	-	-	-	widespread
S. RIGIDA Muhl. Mackenzie willow											
C	M-MX	-	-	x	X	X	x	-	-	-	widespread
S. SCOULERIANA Barratt Scouler willow											
R	H-M	x	-	-	x	x	-	-	-	-	NW,WNW
S. SITCHENSIS Sanson Sitka willow											

SANTALACEAE
Sandalwood Family

COMANDRA Nutt.: bastard toad-flax

	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
C. UMBELLATA (L.) Nutt. v. PALLIDA (DC.) Jones pale bastard toad-flax	C	M-MX	-	X	x	-	-	-	-	-	-	widespread

SAXIFRAGACEAE
Saxifrage Family

BOYKINIA Nutt.: boykinia

B. MAJOR Gray mountain boykinia	LC	H-M	-	-	-	x	x	x	-	-	-	WNW,NW,SW
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CHRYSOSPLENIUM L.: golden-carpet

C. TETRANDEM (Lund) Fries northern golden-carpet	R	H-M	-	-	-	x	x	-	-	-	-	NE,S
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HEUCHERA L.: alumroot

H. CYLINDRICA Dougl. v. GLABELLA (T. & G.) Wheelock roundleaf alumroot	C	M-MX	-	x	X	X	x	x	x	-	-	widespread
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H. GROSSULARIIFOLIATA Rydb. gooseberry-leaved alumroot	C	MX-X	-	x	X	X	X	x	x	x	-	widespread
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H. PARVIFOLIA Nutt. v. DISSECTA Jones small-leaved alumroot	I	M-MX	-	x	x	-	x	-	-	-	-	SW,N,NE
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LITHOPHRAGMA Nutt.: fringe-cup,
prairie-star

L. BULBIFERA Rydb. rockstar	LC	M-MX	-	x	x	-	x	x	x	-	-	widespread
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L. GLABRA Nutt. smooth fringe-cup	LC	M-MX	-	x	x	-	-	-	-	-	-	widespread
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L. PARVIFLORA (Hook.) Nutt. small-flowered fringe-cup	C	M-MX	-	X	x	-	x	-	-	-	-	widespread
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L. TENELLA Nutt. slender fringe-cup	I	M-MX	-	-	x	-	-	-	-	-	-	SW,N
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MITELLA L.: mitrewort

M. BREWERI Gray Brewer's mitrewort	LC	M	-	-	-	-	x	x	-	-	-	WNW,NW SE,N
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M. CAULESCENS Nutt. leafy mitrewort	I	M	-	-	-	x	x	-	-	-	-	NW,NE
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M. NUDA L. bare-stemmed mitrewort	I	M	-	-	-	x	x	-	-	-	-	NW,NE,N
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M. PENTANDRA Hook. alpine mitrewort	C	M	-	-	-	-	X	X	x	-	-	widespread
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		Zones										
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
SAXIFRAGACEAE: continued												
M. STAUROPETALA Piper side-flowered mitrewort	C	M		x	X	X	X	X	-	-	-	widespread
M. TRIFIDA Grah. three-tooth mitrewort	R	M	x	-	-	-	-	-	-	-	-	N
PARNASSIA L.: grass-of-Parnassus												
P. FIMBRIATA Konig. fringed grass-of-Parnassus	LC	H-M		-	-	-	x	X	X	x	-	widespread
P. KOTZEBUEI Cham. Kotzebue's grass-of-Parnassus	R	M		-	-	-	-	-	-	x	-	SW
SAXIFRAGA L.: saxifrage												
S. ARGUTA D. Don [S. odontoloma Piper] brook saxifrage	C	H-M		-	-	-	X	X	x	x	-	widespread
S. BRONCHIALIS L. v. AUSTROMONTANA (Wieg.) Jones dotted saxifrage	C	MX-X		-	-	X	x	X	X	x	x	widespread
S. CAESPITOSA L. v. MINIMA Blank. tufted saxifrage	R	M-MX		-	-	-	-	-	-	x	x	SW,N,NW
S. DEBILIS Engelm. pygmy saxifrage	LC	M-MX		-	-	-	-	-	-	x	x	widespread
S. FERRUGINEA Grah. v. MACOUNII Engl. & Irmsch. rusty saxifrage	LC	M-MX		-	-	-	x	x	x	x	-	NW,SW,N
S. INTEGRIFOLIA Hook. v. APETALA (Piper) Jones swamp saxifrage [S. apetala Piper]	I	MX		-	-	x	-	-	-	-	-	NW,SW
S. INTEGRIFOLIA Hook. v. LEPTOPETALA (Suksd.) Engl. & Irmsch. swamp saxifrage	I	M-MX		-	x	x	-	x	-	-	-	N,NW,SW
S. LYALLII Engl. Lyall's saxifrage	R	M		-	-	-	-	-	-	x	-	SW
S. MERTENSIANA Bong. Merten's saxifrage	I	M		-	-	-	-	-	x	x	-	NW,SW,N
S. OCCIDENTALIS Wats. v. OCCIDENTALIS western saxifrage	C	MX		-	-	x	-	X	X	x	x	widespread
S. OCCIDENTALIS WATS. v. IDAHOENSIS (Piper) Hitchc. western saxifrage	LC	MX		-	-	x	-	x	x	x	-	widespread
S. OPPOSITIFOLIA L. purple saxifrage	I	M		-	-	-	-	-	-	x	x	NW,SW
S. OREGANA Howell v. MONTANENSIS (Small) Hitchc. bog saxifrage	I	H-M		-	-	-	x	x	x	-	-	NW,S

		Zones								
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution
SAXIFRAGACEAE: continued										
S. OREGANA Howell v. SUBAPETALA (E. Nels.) Hitchc. bog saxifrage [S. subapetala Nels.]	I	H-M	-	-	-	-	x	x	-	SW
S. RHOMBOIDEA Greene diamondleaf saxifrage	R	M-MX	-	-	-	-	x	x	-	NW,NE,SE
S. TEMPESTIVA Elvander & Denton storm saxifrage	R	M	-	-	-	-	x	-	-	NW
S. TOLMIEI T. & G. v. LEDIFOLIA (Greene) Engl. & Irmsch. alpine saxifrage	I	M	-	-	-	-	x	x	-	NW,SW
SUKSDORFIA Gray: suksdorfia										
S. RANUNCULIFOLIA (Hook.) Engl. buttercup-leaved suksdorfia	LC	M-MX	-	x	x	x	x	x	-	NW,SW, S,N
S. VIOLACEA Gray violet suksdorfia	R	M	-	-	x	x	x	-	-	NW,SW,N
TIARELLA L.: foamflower										
T. TRIFOLIATA L. v. TRIFOLIATA foamflower	R	M	-	-	-	-	x	-	-	NW
T. TRIFOLIATA L. v. UNIFOLIATA (Hook.) Kurtz foamflower	C	M	-	-	-	X	X	x	-	widespread
SCROPHULARIACEAE Figwort Family										
BESSEYA Rydb.: besseya										
B. RUBRA (Dougl.) Rydb. red besseya	C	M-MX	-	X	X	-	-	-	-	widespread
B. WYOMINGENSIS (A. Nels.) Rydb. Wyoming besseya	C	MX	-	X	x	-	x	x	-	N,NE,SE,S
CASTILLEJA Mutis ex. L. f.: paintbrush										
C. COVILLEANA Hend. Rocky Mountain paintbrush	I	MX	-	-	-	-	-	x	x	SW,S
C. CUSICKII Greenm. Cusick's paintbrush	R	MX	-	x	-	-	-	-	-	N
C. HISPIDA Benth. v. HISPIDA harsh paintbrush	C	MX	-	-	X	-	-	-	-	WNW,NW,N
C. HISPIDA Benth. v. ACUTA (Pennell) Ownbey harsh paintbrush	C	MX	-	X	X	-	-	-	-	widespread

		Zones										
	Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
SCROPHULARIACEAE: continued												
C. LINARIAEFOLIA Benth. Wyoming paintbrush	R	MX	- -	x	- -	- -	- -	- -	- -	- -	- -	SW
C. LUTESCENS (Greenm.) Rydb. yellowish paintbrush	LC	MX	- x	x x	x x	- -	- -	- -	- -	- -	- -	NW
C. MINIATA Dougl. common red paintbrush	C	M-MX	- x	x x	X X	x x	x x	- -	- -	- -	- -	widespread
C. PALLESCENS (Gray) Greenm. palish paintbrush	C	MX	- x	X	- X	x x	x x	- -	- -	- -	- -	widespread
C. PULCHELLA Rydb. showy paintbrush	LC	MX-X	- - - -	- - - -	- - - -	- - - -	- - - -	x x	x x	- -	- -	NW,SW
C. RHEXIFOLIA Rydb. rhexia-leaved paintbrush	C	M	- - - -	- - - -	- - - -	- - - -	x X	x x	x x	- -	- -	widespread
CHIONOPHILA Benth.: snowflower												
C. TWEEDYI (Canby & Rose) Hend. snowflower	LC	M-MX	- - - -	- - - -	- - - -	- - - -	- - - -	x x	x x	- -	- -	NW,SW,S
COLLINSIA Nutt.: blue-eyed Mary												
C. PARVIFLORA Lindl. blue-eyed Mary	C	MX	x X	X	- x	x	- -	- -	- -	- -	- -	widespread
GRATIOLA L.: hedge-hyssop												
G. NEGLECTA Torr. common hedge-hyssop	I	H-M	x - -	x - - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NW,SW
LIMOSELLA L.: mudwort												
L. AQUATICA L. mudwort	C	H-M	X - - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
LINARIA Mill.: toadflax												
*L. DALMATICA (L.) Mill. Dalmatian toadflax	C	M-MX	x X	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
*L. VULGARIS Hill butter and eggs	I	M-MX	x x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
MELAMPYRUM L.: cow-wheat												
M. LINEARE Desr. cow-wheat	I	M	- -	x x	x x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	WNW,NW,N
MIMULUS L.: monkey-flower												
M. BREWERI (Greene) Rydb. Brewer's monkey-flower	I	MX	- -	x -	- x	x x	x x	- -	- -	- -	- -	N,NW,SW

		Zones							Geographic Distribution		
		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine		U. Subalpine	Timberline
SCROPHULARIACEAE: continued											
M. DENTATUS Nutt.	tooth-leaved monkey-flower	R	H-M	x	-	-	-	-	-	-	SW
M. FLORIBUNDUS Lindl. v. FLORIBUNDUS	purple-stemmed monkey-flower	R	M	-	x	-	-	-	-	-	NW,N
M. FLORIBUNDUS Lindl. v. MEMBRANACEUS (A. Nels.) Grant	purple-stemmed monkey-flower	I	M	-	x	x	x	x	x	-	SW,S
M. GUTTATUS DC. v. GUTTATUS	yellow monkey-flower	C	H-M	X	-	-	X	X	-	-	widespread
M. GUTTATUS DC. v. DEPAUPERATUS (Gray) Grant	yellow monkey-flower	C	H-M	X	-	-	X	X	-	-	widespread
M. LEWISII Pursh	red monkey-flower	C	H-M	-	-	-	x	X	X	x	widespread
M. MOSCHATUS Dougl.	musk-plant	C	H-M	x	-	-	X	-	-	-	widespread
M. NANUS H. & A.	dwarf red monkey-flower	R	MX	-	-	x	-	-	-	-	SW
M. PRIMULOIDES Benth.	primrose monkey-flower	R	H-M	-	-	-	-	x	-	-	S
M. SUKSDORFII Gray	Suksdorf's monkey-flower	R	MX	-	-	x	-	-	-	-	N
M. TILINGII Regel	yellow mountain monkey-flower	I	H-M	-	-	-	-	x	x	x	SW,NE
ORTHOCARPUS Nutt.: owl-clover											
O. LUTEUS Nutt.	yellow owl-clover	I	MX	-	x	-	-	-	-	-	NE
O. TENUIFOLIUS (Pursh) Benth.	thin-leaved owl-clover	LC	MX	-	x	x	-	x	-	-	widespread
PEDICULARIS L.: lousewort, fernleaf											
P. BRACTEOSA Benth. v. BRACTEOSA	bracted lousewort	I	M	-	-	x	x	x	-	-	NW,WNW
P. BRACTEOSA Benth. v. CANBYI (Gray) Cronq.	bracted lousewort	C	M	-	-	-	-	X	X	x	widespread
P. BRACTEOSA Benth. v. SIIFOLIA (Rydb.) Cronq.	bracted lousewort	I	M	-	-	-	-	-	x	x	S,SW
P. CONTORTA Benth. v. CONTORTA	alpine fernleaf	C	MX	-	x	x	-	X	X	X	N,NE,NW

		Zones											
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
SCROPHULARIACEAE: continued													
P. CONTORTA Benth. v. RUBICUNDA Reese	alpine fernleaf	LC	MX	-	-	-	-	-	x	x	x		N,NW,SW,S
P. GROENLANDICA Retz.	elephanthead	LC	H-M	-	-	-	x	x	x	x	-		widespread
P. RACEMOSA Dougl. v. ALBA (Penell) Cronq.	parrot's-beak	C	M	-	-	X	x	X	x	-	-		widespread
PENSTEMON Mitch.: penstemon, beardtongue													
P. ALBERTINUS Greene Albert's penstemon [P. caelestinus Pennell]		C	MX-X	-	X	X	-	x	x	x	-		widespread
P. ATTENUATUS Dougl. v. ATTENUATUS taper-leaved penstemon		I	M	-	-	-	-	x	x	-	-		SW,WNW
P. ATTENUATUS Dougl. v. PSEUDOPROCERUS (Rydb.) Cronq.	alpine penstemon	LC	M-MX	-	-	-	-	x	x	x	x		SW
P. ATTENUATUS Dougl. v. MILITARIS (Greene) Cronq.	military penstemon	R	M	-	-	-	-	-	x	-	-		WNW
P. CONFERTUS Dougl.	yellow penstemon	I	M-X	-	x	x	-	-	-	-	-		WNW
P. DIPHYLLUS Rydb.	late penstemon	LC	MX-X	-	x	x	-	x	x	-	-		widespread
P. ELLIPTICUS Coult. & Fish. rockvine penstemon		LC	MX-X	-	-	x	-	x	x	x	x		widespread
P. ERIANTHERUS Pursh v. ERIANTHERUS fuzzytongue penstemon		LC	MX	-	x	x	-	-	-	-	-		widespread
P. ERIANTHERUS Pursh v. REDACTUS Pennell & Keck fuzzytongue penstemon		R	MX	-	x	-	-	-	-	-	-		NE
P. FLAVESCENS Pennell catholic or pale yellow penstemon		LC	M-MX	-	-	-	-	-	x	x	-		NNW,NW
P. FRUTICOSUS (Pursh) Greene bush penstemon		LC	MX	-	-	x	-	x	x	-	-		SW,S,SE
P. LEMHIENSIS (Keck) Keck & Cronq. Lemhi beardtongue		R	X	-	x	-	-	-	-	-	-		SE
P. MONTANUS Greene v. IDAHOENSIS (Keck) Cronq.	mountain penstemon	R	MX	-	-	-	-	-	x	-	-		S
P. NITIDUS Dougl. v. POLYPHYLLUS (Pennell) Cronq.	shining penstemon	I	MX-X	-	x	-	-	-	-	-	-		N,NE

		Zones									
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
SCROPHULARIACEAE: continued											
P. PAYETTENSIS Nels. & Macbr. Payette penstemon	R	MX	-	-	-	-	x	x	-	-	S
P. PROCERUS Dougl. little penstemon	C	M-MX	-	X	X	-	x	x	x	x	widespread
P. RYDBERGII A. Nels. Rydberg's penstemon	I	MX	-	x	x	-	-	-	-	-	NE
P. WILCOXII Rydb. Wilcox's penstemon	C	MX	-	X	X	-	x	-	-	-	widespread
SCROPHULARIA L.: figwort											
S. LANCEOLATA Pursh lance-leaf figwort	I	M	x	-	-	-	-	-	-	-	N,NW
SYNTHRIS Benth.: kittentails											
S. CANBYI Pennell Mission Mtn. kittentails	R	MX	-	-	-	-	-	-	x	-	N
S. MISSURICA (Raf.) Pennell mountain kittentails	R	M	-	-	-	-	x	x	-	-	SW,S
S. PINNATIFIDA Wats. v. CANESCENS (Pennell) Cronq. cutleaf kittentails	LC	MX	-	-	-	-	-	-	x	x	NW,SW
VERBASCUM L.: mullein											
*V. BLATTARIA L. moth mullein	I	MX	x	x	x	-	-	-	-	-	N
*V. THAPSUS L. common mullein	C	MX	X	X	x	-	-	-	-	-	widespread
VERONICA L.: speedwell											
V. AMERICANA Schwein. American speedwell	C	H	X	-	-	X	x	x	-	-	widespread
*V. ANAGALLIS-AQUATICA L. water speedwell	LC	H	x	-	-	-	-	-	-	-	widespread
*V. ARVENSIS L. common speedwell	I	M	x	x	x	-	-	-	-	-	widespread
V. CATENATA Pennell chain speedwell	I	M	x	-	-	-	-	-	-	-	NW,SW
*V. CHAMAEDRYS L. germander speedwell	R	M	x	-	-	-	-	-	-	-	N
V. CUSICKII Gray Cusick's speedwell	LC	M	-	-	-	-	x	x	x	x	NW,WNW,SW
V. PEREGRINA L. purslane speedwell	C	M-MX	X	X	X	x	-	-	-	-	widespread
*V. PERSICA Poir. Persian speedwell	I	M	x	-	-	-	-	-	-	-	NE

		Zones											
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
SCROPHULARIACEAE: continued													
V.	SCUTELLATA L. marsh speedwell	I	H-M	x	-	-	-	-	-	-	-	-	NW
*V.	SERPYLLIFOLIA L. v. SERPYLLIFOLIA thyme-leaved speedwell	LC	M	X	-	-	x	-	-	-	-	-	widespread
V.	SERPYLLIFOLIA L. v. HUMIFUSA (Dickson) Vahl thyme-leaved speedwell	C	M	-	-	x	X	X	x	-	-	-	widespread
*V.	VERNA L. vernal speedwell	I	MX	x	x	x	-	-	-	-	-	-	N,NW,S
V.	WORMSKJOLDII Roem. & Schult. alpine speedwell	C	M	-	-	-	-	x	X	X	X	-	widespread

SOLANACEAE
Nightshade Family

DATURA L.: jimson-weed

*D. STRAMONIUM L. jimson-weed I MX x - - - - - N

HYOSCYAMUS L.: henbane

*H. NIGER L. henbane I MX x x - - - - - N,NW

LYCIUM L.: matrimony vine

*L. HALIMIFOLIUM Mill. matrimony vine I MX - x - - - - - N

SOLANUM L.: nightshade

*S. DULCAMARA L. bittersweet nightshade C H-M X x - - - - - widespread

S. NIGRUM L. black nightshade I M x - - - - - N

S. ROSTRATUM Dunal buffalo bur R MX-X - x - - - - - N

*S. SARRACHOIDES Sendt. hairy nightshade C M-MX X - - - - - widespread

S. TRIFLORUM Nutt. cut-leaved nightshade R MX-X x - - - - - N

ULMACEAE
Elm Family

ULMUS (Tourn.) L.: elm

*U. PUMILA L. Siberian elm I M-MX x x - - - - - N

UMBELLIFERAE (APIACEAE)
Parsley Family

		Zones									
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution		
ANGELICA L.: angelica											
A. ARGUTA Nutt.	Lyall's angelica	C	H-M	X	-	-	X	X	-	-	widespread
A. DAWSONII Wats.	Dawson's angelica	I	M	-	-	-	x	x	-	-	NE,SE
A. ROSEANA Hend.	Rose's angelica	I	M-MX	-	-	-	x	x	x	x	NW,SW
ANTHRISCUS Hoffm.: chervil											
*A. CEREFOLIUM Hoffm.	chervil	R	M	x	-	-	-	-	-	-	N
BERULA Hoffm.: water-parsnip											
B. ERECTA (Huds.) Cov.	water-parsnip	I	H-M	x	-	-	-	-	-	-	N
CARUM L.: caraway											
*C. CARVI L.	caraway	I	M	x	-	-	-	-	-	-	S,SE
CICUTA L.: water-hemlock											
C. DOUGLASII (DC.) Coult. & Rose	water-hemlock	LC	H	x	-	-	x	-	-	-	widespread
CONIUM L.: poison-hemlock											
*C. MACULATUM L.	poison-hemlock	I	H-M	x	-	-	-	-	-	-	N
CYMPTERUS Raf.: cymopterus											
C. sp. (as yet undetermined)		I	MX-X	-	-	-	-	-	-	x	NW,SW
C. GLAUCUS Nutt.	grayish cymopterus	LC	M-MX	-	x	x	-	x	x	-	widespread
C. TEREBINTHINUS (Hook.) T. & G. v. FOENICULACEUS (T. & G.) Cronq.	turpentine cymopterus	I	M-MX	-	x	-	-	-	-	-	SW
DAUCUS L.: carrot											
*D. CAROTA L.	wild carrot, Queen Anne's lace	I	M-MX	x	-	-	-	-	-	-	NE,NW
HERACLEUM L.: cow-parsnip											
H. LANATUM Michx. [Sphondylium lanatum Greene]	cow-parsnip	LC	H-M	X	-	-	X	x	x	-	widespread
LIGUSTICUM L.: licorice-root											
L. CANBYI Coult. & Rose	Canby's licorice-root	C	H-M	-	-	-	x	x	X	x	widespread

		Zones									
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
UMBELLIFERAE: continued											
L. TENUIFOLIUM Wats. slender-leaved licorice-root	LC	H-M	-	-	-	-	x	x	x		widespread
L. VERTICILLATUM (Geyer) Coult. & Rose verticillate-umbel licorice-root	R	M	-	-	x	-	-	-	-		NW
LOMATIUM Raf.: lomatum, biscuitroot											
L. AMBIGUUM (Nutt.) Coult. & Rose Wyeth's biscuitroot	LC	MX	-	x	x	-	-	-	-		widespread
L. BICOLOR Wats. bicolor biscuitroot	LC	M-MX	-	-	x	-	x	x	x	-	NW,SW
L. COUS (Wats.) Coult. & Rose cous	C	MX	-	X	x	-	x	-	-		widespread
L. CUSICKII (Wats.) Coult. & Rose Cusick's lomatum	C	MX-X	-	-	x	-	x	x	X	X	widespread
L. DISSECTUM (Nutt.) Math. & Const. v. MULTIFIDUM (Nutt.) Math. & Const. fern-leaved lomatum	C	MX-X	-	X	X	-	x	-	-		widespread
L. MACROCARPUM (Nutt.) Coult. & Rose large-fruit lomatum	C	MX	-	X	x	-	-	-	-		widespread
L. SANDBERGII Coult. & Rose Sandberg's desert-parsley	R	X	-	-	-	-	-	x	x	-	N
L. TRITERNATUM (Pursh) Coult. & Rose v. TRITERNATUM nine-leaf lomatum	I	MX	-	x	x	-	x	x	-		widespread
L. TRITERNATUM (Pursh) Coult & Rose ssp. PLATYCARPUM (Torr.) Cronq. nine-leaf lomatum	LC	MX	-	x	x	-	x	x	-		NW
MUSINEON Raf.: musineon											
M. VAGINATUM Rydb. sheathed musineon	R	MX	-	x	x	-	-	-	-		NE,NW
OROGENIA Wats.: turkey-peas											
O. LINEARIFOLIA Wats. turkey-peas	I	MX	-	-	x	-	-	-	-		SW
OSMORHIZA Raf.: sweet-cicely, sweetroot											
O. CHILENSIS H. & A. mountain sweetroot	C	M-MX	X	x	X	X	X	-	-		widespread
O. DEPAUPERATA Phil. blunt-fruit sweet-cicely	I	M	-	-	x	x	x	x	-		widespread

UMBELLIFERAE: continued		Zones									
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
O. OCCIDENTALIS (Nutt.) Torr. western sweet-cicely	C	M	-	-	X	X	X	x	-	-	widespread
O. PURPUREA (Coult. & Rose) Suskd. purple sweet-cicely	I	M	-	-	x	x	x	-	-	-	NW,WNW
PASTINACA L.: parsnip											
*P. SATIVA L. wild parsnip	I	M	x	-	-	-	-	-	-	-	NE
PERIDERIDIA Reichenb.: yampah											
P. GAIRDNERI (H. & A.) Math. ssp BOREALIS Chuang & Const. yampah	LC	MX	-	x	x	x	x	-	-	-	NW,SW
SANICULA L.: sanicle, snakeroot											
S. GRAVEOLENS Poepp. Sierra sanicle	I	M	-	-	-	x	-	-	-	-	N
S. MARILANDICA L. black snakeroot	I	M	x	x	x	-	-	-	-	-	NW
SIUM L.: water-parsnip											
S. SUAVE Walt. water-parsnip	I	H	x	-	-	-	-	-	-	-	NW,S
URTICACEAE Nettle Family											
URTICA L.: nettle											
U. DIOICA L. ssp. GRACILIS (Ait.) Seland. v. GRACILIS stinging nettle	C	M	X	-	-	x	x	-	-	-	widespread
VALERIANACEAE Valerian Family											
PLECTRITIS DC.: plectritis											
P. MACROCERA T. & G. white plectritis	C	MX	-	X	x	-	-	-	-	-	widespread
VALERIANA L.: valerian											
V. DIOICA L. mountain valerian	C	MX	-	-	X	X	X	x	x	-	widespread
V. EDULIS Nutt. tobacco-root	I	M-MX	x	-	-	x	x	x	-	-	NW,NE,SW
V. SITCHENSIS Bong. Sitka valerian	C	M	-	-	-	x	X	X	x	-	widespread

VERBENACEAE
Vervain Family

VERBENA L.: verbena, vervain

	Abundance	Habitat Moisture	Valley-moist Valley-dry Montane-dry Montane-moist L. Subalpine U. Subalpine Timberline Alpine	Zones	Geographic Distribution
V. BRACTEATA Lag. & Rodr. bracted vervain	C	MX-X	- X - - - - -		widespread
V. HASTATA L. blue vervain	R	H-M	x - - - - -		NW
V. STRICTA Vent. hoary vervain	I	MX-X	- x x - - - -		N

VIOLACEAE
Violet Family

VIOLA L.: violet, pansy

V. ADUNCA Sm. v. ADUNCA western violet	C	M-MX	x x X X - - - -		widespread
V. ADUNCA Sm. v. BELLIDIFOLIA (Greene) Harr. western violet	C	M-MX	- - - - x X X x		widespread
*V. ARVENSIS Murr. wild pansy	I	M	x - - - - -		N
V. CANADENSIS L. Canada violet	LC	M	x - - x x - - -		N,NE,SE
V. GLABELLA Nutt. pioneer violet	C	M	x - - X x - - -		widespread
V. MACLOSKEYI Lloyd v. MACLOSKEYI small white violet	LC	H-M	x - - x x x x -		widespread
V. MACLOSKEYI Lloyd v. PALLENS (Banks) Hitchc. small white violet	R	H-M	x - - - - -		N
V. NEPHROPHYLLA Greene v. NEPHROPHYLLA bog violet	I	H-M	x - - - - -		NW,SW,NE
V. NUTTALLII Pursh v. MAJOR Hook. Nuttall's violet	C	MX	- X x - x x - -		widespread
V. NUTTALLII Pursh v. VALLICOLA (Nels.) St. John Nuttall's violet	C	MX	- X - - - - -		widespread
V. ORBICULATA Geyer round-leaved violet	C	M	- - x X X x - -		widespread
V. PALUSTRIS L. marsh violet	LC	H-M	x - - x x - - -		widespread
V. PURPUREA Kell. yellow mountain violet	I	MX	- - x - x x x -		SW,S

VITACEAE
Grape Family

PARTHENOCISSUS Planch.: creeper

	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
*P. QUINQUEFOLIA (L.) Planch. Virginia creeper	I	MX	x	-	-	-	-	-	-	-	N,NW

**DIVISION ANTHOPHYTA, FLOWERING
PLANTS - CLASS LILIOPSIDA,
"MONOCOTS"**

ALISMATACEAE
Water-plantain Family

ALISMA L.: water-plantain

A. PLANTAGO-AQUATICA L. American water-plantain	C	Aq	X	-	-	-	-	-	-	-	widespread
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A. GRAMINEUM Gmel. narrow-leaf water-plantain	I	Aq	x	-	-	-	-	-	-	-	N
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SAGITTARIA L.: arrowhead

S. CUNEATA Sheld. arrowleaf arrowhead, wapato	C	Aq	X	-	-	-	-	-	-	-	widespread
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CYPERACEAE
Sedge Family

CAREX L.: sedge

C. ALBONIGRA Mack. black and white sedge	C	MX-X	-	-	-	-	-	-	-	x	widespread
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C. APERTA Boott Columbia sedge	R	H-M	x	-	-	-	-	-	-	-	N
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C. AQUATILIS Wahl. water sedge	LC	H	x	-	-	X	X	x	x	-	widespread
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C. ARCTA Boott clustered sedge	LC	M	x	-	-	x	-	-	-	-	widespread
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C. ATHERODES Spreng. awned sedge	I	H-M	x	-	-	-	-	-	-	-	NW
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C. ATHROSTACHYA Olney slenderbeaked sedge	C	M	X	-	-	X	x	-	-	-	widespread
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C. ATRATA L. v. ATROSQUAMA (Mack) Cronq. blackened sedge [C. atosquama Mack., C. apoda Clokey]	I	M	-	-	-	-	-	x	x	-	NE
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CYPERACEAE: continued

		Zones								Geographic Distribution
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	
C. ATRATA L. v. ERECTA Boott blackened sedge [C. epapillosa Mack. C. heteroneura v. epapillosa (Mack.) Herm.]	I M	-	-	-	-	x	x	x	-	NW,SW,NE,N
C. AUREA Nutt. golden sedge [C. hassei Bailey]	C M	X	-	-	X	x	x	-	-	widespread
C. BEBBIИ Olney Bebb's sedge	I M	x	-	-	x	-	-	-	-	widespread
C. BIPARTITA Allioni two-parted sedge [C. lachenalii Schkuhr.]	R M	-	-	-	-	-	-	x	-	SW
C. BREVIOR (Dewey) Mack. short-beaked sedge	I M	x	-	-	-	-	-	-	-	NW
C. BREWERI Boott v. PADDOENSIS (Suskd.) Cronq. Brewer's sedge [C. engelmannii Bailey]	I M-MX	-	-	-	-	-	-	-	x	SW,NW
C. BRUNNESCENS (Pers.) Poir. brownish sedge	I M	-	-	-	-	x	x	-	-	NW
C. BUXBAUMII Wahl. Buxbaum's sedge	R M	x	-	-	-	-	-	-	-	NW,SW,N
C. CANESCENS L. gray sedge	C H-M	-	-	-	X	X	x	-	-	widespread
C. CAPILLARIS L. hair sedge	I M	-	-	-	-	-	x	x	-	SW,NE
C. CONCINNOIDES Mack. northwest sedge	C M-MX	-	x	X	X	X	x	-	-	widespread
C. CRAWFORDII Fern. Crawford's sedge	I M	x	-	-	x	-	-	-	-	N,NW
C. CUSICKII Mack. Cusick's sedge [C. obovoidea Cronq.]	I H-M	x	-	-	x	x	x	-	-	SE
C. DEWEYANA Schw. Dewey's sedge [C. bolanderi Olney]	LC M	x	-	-	x	x	-	-	-	widespread
C. DIANDRA Schrank lesser paniced sedge	I H-M	x	-	-	x	x	-	-	-	NW,NE
C. DIOICA L. bog sedge [C. dioica L. v. gynocrates Ostenf.]	LC H-M	-	-	-	-	x	x	-	-	NE
C. DISPERMA Dewey soft-leaved sedge	C M	x	-	-	X	x	-	-	-	widespread
C. DOUGLASII Boott Douglas' sedge	C H-X	x	X	x	-	-	-	-	-	widespread
C. FILIFOLIA Nutt. thread-leaved sedge	C MX-X	-	X	x	-	-	-	-	-	widespread

CYPERACEAE: continued			Zones										
			Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
C. FLAVA L.	yellow sedge		R	H-M	-	-	-	x	-	-	-	-	WNW
C. GEYERI Boott	elk sedge		C	M-MX	-	x	X	x	x	X	x	-	widespread
C. HAYDENIANA Olney	Hayden's sedge		LC	M-MX	-	-	-	-	-	x	X	x	NW,SW
C. HOODII Boott	Hood's sedge		C	M-MX	-	X	X	-	x	x	-	-	widespread
C. ILLOTA Bailey	small-headed sedge		C	H-M	-	-	-	-	x	X	x	-	widespread
C. INTERIOR Bailey	inland sedge		LC	H-M	x	-	-	x	x	x	-	-	widespread
C. LAEVICULMIS Meinsh.	smooth-stemmed sedge		LC	H-M	x	-	-	x	x	-	-	-	widespread
C. LANUGINOSA Michx.	wooly sedge		C	H-M	X	-	-	x	-	-	-	-	widespread
C. LASIOCARPA Ehrh.	slender sedge		I	H-M	x	-	-	x	-	-	-	-	NW
C. LENTICULARIS Michx.	Kellog's sedge		C	H-M	X	-	-	X	X	x	-	-	widespread
[C. kellogii Boott]													
C. LEPORINELLA Mack.	Sierra-hare sedge		I	M	-	-	-	-	x	x	x	-	NE,WNW, SW,N
C. LIMNOPHILA Herm.	pond sedge		R	M	-	-	-	-	-	x	x	x	SW,N
C. LIMOSA L.	mud sedge		I	H	-	-	-	-	x	x	-	-	NE,WNW,N
C. LUZULINA Olney	woodrush sedge		C	M	-	-	-	x	X	x	x	-	widespread
[C. luzulina Olney v. ablata (Bailey) Herm.]													
C. MERTENSII Prescott	Merten's sedge		C	H-M	-	-	-	X	x	-	-	-	widespread
C. MICROPTERA Mack.	small-winged sedge		C	M	x	x	x	x	X	x	-	-	widespread
[C. festivella Mack., C microptera v. crassinervia Herm.]													
C. MISANDRA R. Br.	manhater sedge		R	M	-	-	-	-	-	-	-	x	SW
C. MURICATA L.	muricate sedge		LC	H-M	x	-	-	x	-	-	-	-	widespread
[C. angustior Mack.]													
C. NARDINA Fries	spikenard sedge		LC	MX-X	-	-	-	-	-	-	-	x	widespread
[C. nardina Fries v. hepburnei (Boott) Kuek., C. hepburnei Boott]													
C. NEBRASCENSIS Dewey	Nebraska sedge		C	H-M	X	-	-	x	x	-	-	-	widespread

CYPERACEAE: continued

				Zones									
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
C. NEUROPHORA Mack.	nerved sedge	R	H-M	- - -	x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	WNW
C. NIGRICANS C.A. Mey.	black alpine sedge	C	H-M	- - -	- - -	- - -	- - -	x	X	X	X	X	widespread
C. NORVEGICA Retz. [C. media R. Br.]	Norway sedge	I	M	- - -	- - -	- - -	- - -	- - -	x	- - -	- - -	- - -	NE
C. NOVA Bailey	new sedge	I	M	- - -	- - -	- - -	- - -	- - -	- - -	x	- - -	- - -	SW
[C. pelocarpa Herm.]													
C. OEDERI Retz.	green sedge	I	H-M	x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	WNW
[C. viridula Michx.]													
C. PACHYSTACHYA Cham. ex Steud.	thick-headed sedge	C	M	X	- -	X	x	x	x	x	- -	- -	widespread
[C. preslii Steud., C macloviana D'Urville v. pachystachya (Cham.) Kuek.]													
C. PAUPERCULA Michx.	poor sedge	R	H	- - -	- - -	x	- - -	- - -	- - -	- - -	- - -	- - -	N
C. PAYSONIS Clokey	Payson's sedge	C	M-MX	- - -	- - -	- - -	- - -	x	X	X	- - -	- - -	widespread
C. PENNSYLVANICA Lam.	Pennsylvania sedge	R	M-MX	- x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	N
[C. heliophila Mack.]													
C. PETASATA Dewey	Liddon's sedge	LC	M-MX	- x	x	- x	- - -	- - -	- - -	- - -	- - -	- - -	widespread
C. PHAEOCEPHALA Piper	Dunhead sedge	C	M-MX	- - -	- - -	- - -	- - -	- - -	X	X	X	- - -	widespread
[C. eastwoodiana Herm.]													
C. PRAECEPTORUM Mack.	teacher's sedge	LC	H-M	- - -	- - -	x	x	x	- - -	- - -	- - -	- - -	NW,SW,NE
C. PRATICOLA Rydb.	meadow sedge	LC	M	x	- -	x	x	- - -	- - -	- - -	- - -	- - -	widespread
C. PRIONOPHYLLA Holm	saw-leaved sedge	I	H-M	- - -	- - -	x	x	- - -	- - -	- - -	- - -	- - -	SW,NE
C. PYRENAICA Wahl.	Pyrenaean sedge	LC	M	- - -	- - -	- - -	- - -	x	x	x	- - -	- - -	widespread
C. RAYNOLDSII Dewey	Raynold's sedge	LC	M	- - -	- - -	x	x	x	- - -	- - -	- - -	- - -	NE,SE
C. RETRORSA Schw.	retorse sedge	I	H-M	x	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	NW,SW
C. ROSSII Boott	Ross' sedge	C	MX	- x	x	x	X	X	x	- - -	- - -	- - -	widespread
[C. brevipes Boott]													
C. ROSTRATA Stokes	beaked sedge	C	H	X	- -	X	X	x	- - -	- - -	- - -	- - -	widespread
[C. utriculata Boott]													

CYPERACEAE: continued

			Zones								
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
C. RUPESTRIS Allioni curly sedge	I	MX-X	-	-	-	-	-	-	-	x	NW
C. SAXATILIS L. v. MAJOR Olney russet sedge [C. physocarpa Presl]	I	H-M	-	-	-	-	x	x	-	-	NW,NE
C. SCIRPOIDEA Michx. v. PSEUDOSCIROIDEA (Rydb.) Cronq. single-spike sedge [C. pseudoscirpoidea Rydb.]	LC	MX-X	-	-	-	-	-	-	-	x	NW
C. SCIRPOIDEA Michx. v. STENOCHLAENA Holm single-spike sedge [C. stenochlaena (Holm) Mack.]	LC	M-MX	-	-	-	-	x	x	x	-	NW,SW,N
C. SCOPARIA Schkuhr. pointed-broom sedge	R	M	x	-	-	-	-	-	-	-	NW,N
C. SCOPULORUM Holm Rocky Mtn. sedge [C. scopulorum v. bracteosa (Bailey) Herm., C. miserabilis Mack., C. chimaphila Holm, C. campylocarpa Holm]	C	H-MX	-	-	x	x	X	X	X	x	widespread
C. SPECTABILIS Dewey showy sedge [C. podocarpa R. Br., C. montanensis L.H. Bailey]	I	H-M	-	-	-	-	-	x	-	-	NE,SE
C. STENOPHYLLA Wahl. narrow-leaved sedge [C. eleocharis Bailey]	I	M-MX	-	x	x	-	-	-	-	-	N
C. STIPATA Muhl. sawbeak sedge	C	H-M	X	-	-	X	-	-	-	-	widespread
C. TENERA Dewey slender sedge	I	M	x	-	-	-	-	-	-	-	NW
C. TORREYI Tuckerm. Torrey's sedge	R	M	x	-	-	-	-	-	-	-	NW
C. VESICARIA L. inflated sedge [C. exsicata Bailey]	LC	H-M	x	-	-	x	x	x	-	-	widespread
C. VULPINOIDEA Michx. fox sedge	R	H-M	x	-	-	-	-	-	-	-	NW
C. XERANTICA Bailey dryland sedge	R	MX-X	-	x	-	-	-	-	-	-	N
CYPERUS L.: flatsedge											
C. ARISTATUS Rottb. awned flatsedge	R	H-M	x	-	-	-	-	-	-	-	NW
C. RIVULARIS Kunth shining flatsedge	R	H-M	x	-	-	-	-	-	-	-	NW

CYPERACEAE: continued

		Abundance	Habitat Moisture	Zones							Geographic Distribution
				Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	
DULICHIMUM Pers.: dulichium											
D. ARUNDINACEUM (L.) Britt.	dulichium	R	H	-	-	-	-	x	-	-	N
ELEOCHARIS R. Br.: spike-rush											
E. ACICULARIS (L.) R. & S.	needle spike-rush	LC	H-M	x	-	-	x	x	-	-	widespread
E. BELLA (Piper) Svenson	delicate spike-rush	I	H-M	x	-	-	-	-	-	-	NE
E. OVATA (Roth) R. & S.	ovoid spike-rush	R	H-M	x	-	-	-	-	-	-	NE
E. PALUSTRIS (L.) R. & S.	common spike-rush	C	H	X	-	-	X	-	-	-	widespread
E. PAUCIFLORA (Lightf.) Link	few-flowered spike-rush	I	H-M	-	-	-	-	x	x	x	NW,SW
ERIOPHORUM L.: cotton-grass											
E. CHAMISSONIS C.A. Mey.	cotton-sedge	I	H-M	-	-	-	x	x	x	-	WNW,NW SE,N
E. POLYSTACHION L.	many-spiked cotton-grass	R	H-M	-	-	-	x	x	-	-	SE
SCIRPUS L.: bulrush											
S. ACUTUS Muhl.	hardstem bulrush	I	H	x	-	-	-	-	-	-	NE
S. AMERICANUS Pers.	American bulrush	R	H	x	-	-	-	-	-	-	SE
S. CYPERINUS (L.) Kunth	wool-grass	R	H	x	-	-	-	-	-	-	N
S. MICROCARPUS Presl	small-fruited bulrush	C	H	X	-	-	-	-	-	-	widespread
S. PALLIDUS (Britt.) Fern.	pale bulrush	R	H	x	-	-	-	-	-	-	NE
S. VALIDUS Vahl	softstem bulrush	LC	H	x	-	-	-	-	-	-	widespread

GRAMINEAE (POACEAE)
Grass Family

		Zones									
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
AGROPYRON Gaertn.: wheatgrass											
I	M-X	x	-	-	x	x	x	-	-	-	widespread
A. CANINUM (L.) Beauv. ssp. MAJUS (Vasey) Hitchc. v. ANDINUM (Scribn. & Smith) Hitchc. [A. subsecundum A. Hitchc.] bearded wheatgrass											
I	M-MX	-	x	x	-	x	x	x	-	-	N,NE,S
A. CANINUM (L.) Beauv. ssp. MAJUS (Vasey) Hitchc. v. LATIGLUME (Scribn. & Smith) Hitchc. broad-glumed wheatgrass											
I	M-MX	-	x	x	-	x	-	-	-	-	widespread
A. CANINUM (L.) Beauv. ssp. MAJUS (Vasey) Hitchc. v. MAJUS [A. violaceum v. major, Vasey] slender wheatgrass											
I	M-MX	x	-	-	x	x	x	-	-	-	widespread
A. CANINUM (L.) Beauv. ssp. MAJUS (Vasey) Hitchc. v. UNILATERALE (Vasey) Hitchc. [A. trachycaulum (Link) Malte] bearded wheatgrass											
LC	M-X	-	x	-	-	-	-	-	-	-	widespread
*A. CRISTATUM (L.) Gaertn. crested wheatgrass [A. desertorum Fisch]											
LC	M-MX	x	x	x	x	-	-	-	-	-	widespread
A. DASYSTACHYUM (Hook.) Scribn. thick-spiked wheatgrass											
I	M-MX	-	x	-	-	-	-	-	-	-	N,NW
*A. INTERMEDIUM (Host) Beauv. intermediate wheatgrass											
C	M-MX	X	-	-	-	-	-	-	-	-	widespread
*A. REPENS (L.) Beauv. quackgrass											
I	M-X	-	-	-	-	-	x	x	x	-	SW,S
A. SCRIBNERI Vasey alpine wheatgrass											
LC	M-MX	x	x	-	x	-	-	-	-	-	widespread
A. SMITHII Rydb. western wheatgrass											
C	M-X	-	X	X	-	x	x	-	-	-	widespread
A. SPICATUM (Pursh) Scribn. & Smith bluebunch wheatgrass											
AGROSTIS L.: bentgrass											
C	M	X	-	-	X	x	-	-	-	-	widespread
*A. ALBA L. v. ALBA redtop											
C	H-M	X	-	-	x	-	-	-	-	-	widespread
*A. ALBA L. v. PALUSTRIS (Huds.) Pers. creeping bentgrass											
C	M	X	-	-	-	-	-	-	-	-	widespread
*A. ALBA L. v. STOLONIFERA (L.) Smith fiorin											

GRAMINEAE: continued		Zones							Geographic Distribution	
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline		Alpine
A. BOREALIS Hartm. northern bentgrass	R M	-	-	-	-	-	-	x	x	NW
A. DIEGOENSIS Vasey leafy bentgrass	I M	x	x	-	-	-	-	-	-	NW,SW
A. EXARATA Trin. spike bentgrass	I M	x	-	-	x	x	x	-	-	NW,SW
A. HUMILIS Vasey alpine bentgrass	I M	-	-	-	-	-	x	x	x	NW,SW,S,N
A. IDAHOENSIS Nash Idaho bentgrass	LC M	-	-	-	x	x	x	x	-	widespread
*A. INTERRUPTA L. interrupted bentgrass [Apera interrupta L.]	LC M-MX	-	x	x	-	-	-	-	-	widespread
A. SCABBA Willd. tickle-grass	LC H-MX	x	x	x	x	x	x	x	-	widespread
A. TENUIS Sibth. common bentgrass	I M	x	-	-	x	-	-	-	-	S,SE
A. THURBERIANA Hitchc. Thurber's bentgrass	LC H-M	-	-	-	x	x	x	x	-	widespread
A. VARIABILIS Rydb. variant bentgrass	I M-MX	-	-	-	-	-	-	x	x	NW,SW
ALOPECURUS L.: foxtail										
A. AEQUALIS Sobol. shortawn foxtail	LC H-M	x	-	-	x	x	x	-	-	widespread
A. ALPINUS J.E. Smith alpine foxtail	I M	-	-	-	-	x	x	-	-	NE,SE
A. CAROLINIANUS Walt. Carolina foxtail	R M-MX	-	x	-	-	-	-	-	-	N
A. GENICULATUS L. water foxtail	I H-M	x	-	-	x	x	x	-	-	WNW,NW
*A. PRATENSIS L. meadow foxtail	R M	x	-	-	-	-	-	-	-	SW
ARISTIDA L.: three-awn										
A. LONGISETA Steud. red three-awn	R MX-X	-	x	-	-	-	-	-	-	N
ARRHENATHERUM Beauv.: oatgrass										
*A. ELATIUS (L.) Presl tall oatgrass	I M	x	-	-	-	-	-	-	-	N
AVENA L.: oats										
*A. FATUA L. wild oats	C M	X	x	-	-	-	-	-	-	widespread
*A. SATIVA L. common oats	C M	X	x	-	-	-	-	-	-	widespread

GRAMINEAE: continued

		Zones									
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
BECKMANNIA Host: sloughgrass											
B.	SYZIGACHNE (Steud.) Fern. American sloughgrass	C	H-M	X	-	-	x	-	-	-	widespread
BOUPELOUA Lag.: grama-grass, grama											
B.	GRACILIS (H.B.K.) Lag. blue grama	R	MX-X	-	x	-	-	-	-	-	N
BROMUS L.: brome-grass, brome											
B.	ANOMALUS Rupr. nodding brome-grass	I	M-X	x	x	-	-	-	-	-	NW
*B.	BRIZAEFORMIS Fisch. & Mey. rattle-grass	R	M-MX	-	x	-	-	-	-	-	SW
B.	CARINATUS H. & A. v. CARINATUS California brome-grass [B. marginatus Nees]	C	M-MX	X	x	x	-	x	-	-	widespread
B.	CARINATUS H. & A. v. LINEARIS Shear keeled brome-grass	I	M-MX	x	-	-	-	-	-	-	widespread
B.	CILIATUS L. fringed brome-grass	I	M-MX	x	-	-	x	-	-	-	N,NW
*B.	COMMUTATUS Schrad. meadow brome-grass	I	M-MX	-	x	-	-	-	-	-	N,NW
*B.	INERMIS Leys. ssp. INERMIS smooth brome-grass	C	M-MX	X	x	x	x	-	-	-	widespread
B.	INERMIS Leys. ssp. PUMPELLIANUS (Scribn.) Wagon v. PUMPELLIANUS mountain brome-grass [B. pumpellianus Scribn.]	I	M-MX	-	-	-	x	x	-	-	NE,SE,S
*B.	JAPONICUS Thunb. Japanese brome-grass	I	M-MX	-	x	x	-	-	-	-	N
*B.	MOLLIS L. soft brome-grass	LC	M-X	-	x	x	-	-	-	-	widespread
*B.	TECTORUM L. cheatgrass	C	M-X	-	X	x	-	-	-	-	widespread
B.	VULGARIS (Hook.) Shear Columbia brome-grass	I	M	x	-	x	x	X	-	-	N,NW
CALAMAGROSTIS Adans.: reedgrass											
C.	CANADENSIS (Michx.) Beauv. v. CANADENSIS bluejoint reedgrass	C	H	X	-	-	X	X	x	-	widespread

		Zones										
		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
GRAMINEAE: continued												
C. CANADENSIS (Michx.) Beauv. v. PALLIDA (Vasey & Scribn.) Stebbins bluejoint reedgrass	I	H	- - - -	- - - -	- - - -	- - - -	- - - -	x	x	-	-	NW,SW
C. CANADENSIS (Michx.) Beauv. v. SCABRA (Kunth) Hitchc. bluejoint reedgrass	I	H	- - - -	- - - -	- - - -	- - - -	x	x	-	-	-	NW
C. INEXPANSA Gray northern reedgrass	LC	H-M	x - - -	- - - -	x	x	x	x	-	-	-	NW
C. MONTANENSIS (Scribn.) Scribn. prairie reedgrass	I	MX	- x x -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	N,NW
C. NEGLECTA (Ehrh.) Gaertn. slim reedgrass	I	H-M	x - - -	- - - -	x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NW
C. PURPURASCENS R. Br. purple reedgrass	LC	MX-X	- - - -	- - - -	- - - -	- - - -	x	x	x	x	-	widespread
C. RUBESCENS Buckl. pinegrass	C	M-MX	- x X X	X x x x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
CATABROSA Beauv.: brookgrass												
C. AQUATICA (L.) Beauv. brookgrass	R	H	x - - -	- - - -	x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	N,S
CINNA L.: woodreed												
C. LATIFOLIA (Trevir.) Griseb. woodreed	C	H-M	x - - -	- - - -	X	x	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
CYNOSURUS L.: dogtail												
C. CRISTATUS L. dogtail	R	M	- - - -	- - - -	x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	SE
DACTYLIS L.: orchard-grass												
*D. GLOMERATA L. orchard-grass	C	M-MX	X - - -	- - - -	x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
DANTHONIA Lam. & DC.: oatgrass, danthonia												
D. CALIFORNICA Boland. California oatgrass	I	MX	- x x -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NW,SW,SE
D. INTERMEDIA Vasey timber oatgrass	C	M-MX	- - - -	- - - -	x	X	X	X	x	-	-	widespread
D. SPICATA (L.) Beauv. common wild oatgrass	I	M-MX	- x x -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread
D. UNISPICATA (Thurb.) Munro one-spike oatgrass	I	MX-X	- x x -	- - - -	x	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	widespread

GRAMINEAE: continued		Zones									
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
DESCHAMPSIA Beauv.: hairgrass											
D. ATROPURPUREA (Wahlenb.) Scheele v. LATIFOLIA (Hook.) Scribn. mountain hairgrass [Vahlodea atropurpurea Fries]	LC	M	-	-	-	x	x	x	x	x	widespread
D. CESPITOSA (L.) Beauv. tufted hairgrass	LC	M-MX	x	-	-	x	x	x	x	x	widespread
D. DANTHONOIDES (Trin.) Munro annual hairgrass	LC	M-MX	-	x	x	x	x	-	-	-	widespread
D. ELONGATA (Hook.) Munro slender hairgrass	LC	M	x	-	-	x	x	-	-	-	widespread
DIGITARIA Heister: crabgrass											
*D. ISCHAEMUM (Schreb.) Schreb. hairy crabgrass	R	M	x	-	-	-	-	-	-	-	N
*D. SANGUINALIS (L.) Scop. smooth crabgrass	R	M	x	-	-	-	-	-	-	-	N
DISTICHLIS Raf.: saltgrass											
D. STRICTA (Torr.) Rydb. alkali saltgrass	I	H-MX	x	-	-	-	-	-	-	-	NE,SE
ECHINOCHLOA Beauv.: barnyard-grass											
E. CRUSGALLI (L.) Beauv. barnyard-grass	LC	H-M	x	-	-	-	-	-	-	-	widespread
ELYMUS L.: wildrye, ryegrass											
E. CANADENSIS L. Canada wildrye	LC	M-MX	x	-	-	x	-	-	-	-	widespread
E. CINEREUS Scribn. & Merrill Great Basin wildrye	LC	M-MX	x	-	-	-	-	-	-	-	widespread
E. GLAUCUS Buckl. blue ryegrass	C	M	x	-	-	X	X	x	-	-	widespread
E. MACOUNII Vasey Macoun's wildrye [=Agropyron caninum x Hordeum jubatum]	R	M	-	x	-	-	-	-	-	-	N
E. TRITICOIDES Buckl. creeping wildrye	R	MX	x	-	-	x	-	-	-	-	SW

		Zones										
		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
GRAMINEAE: continued												
ERAGROSTIS Beauv.: stinkgrass, lovegrass												
*E. CILIANENSIS (All.) Mosher	stinkgrass	I	MX	-	x	-	-	-	-	-	-	N
E. PECTINACEA (Michx.) Nees	purple lovegrass	R	MX	-	x	-	-	-	-	-	-	N
FESTUCA L.: fescue												
*F. ARUNDINACEA Schreb.	tall fescue	I	M	x	-	-	x	-	-	-	-	NW
F. IDAHOENSIS Elmer	Idaho fescue	C	MX	-	X	X	-	x	x	-	-	widespread
F. OCCIDENTALIS Hook.	western fescue	LC	M	-	-	x	x	x	-	-	-	NW,SW
F. OCTOFLORA Walt. v. OCTOFLORA	six-weeks fescue	LC	MX-X	-	x	-	-	-	-	-	-	widespread
F. OCTOFLORA Walt. v. TENELLA (Willd.)	Fern. six-weeks fescue	I	MX-X	-	x	-	-	-	-	-	-	NW
F. OVINA L. v. BREVIFOLIA (R. Br.)	Wats. sheep fescue	LC	MX-X	-	-	-	-	-	x	x	X	widespread
F. OVINA L. v. RYDBERGII St.-Ives	sheep fescue	I	MX-X	-	x	x	-	x	-	-	-	SW
*F. PRATENSIS Huds.	meadow fescue	I	M	x	-	-	x	-	-	-	-	NW,N
[F. elatior L.]												
*F. RUBRA L.	red fescue	LC	M	x	-	-	x	-	-	-	-	widespread
F. SCABRELLA Torr.	rough fescue	LC	M-MX	-	x	x	-	x	x	-	-	SW,N,NE
F. SUBULATA Trin.	coast range fescue	I	M	x	-	-	x	x	-	-	-	widespread
F. VIRIDULA Vasey	green fescue	I	M	-	-	-	-	-	x	x	-	SW,S
GLYCERIA R. Br.: mannagrass												
G. BOREALIS (Nash) Batch.	northern mannagrass	C	H	X	-	-	X	-	-	-	-	widespread
G. ELATA (Nash) Jones	tall mannagrass	I	H-M	x	-	-	x	-	-	-	-	NW,N
G. GRANDIS Wats.	American mannagrass	I	H-M	x	-	-	x	-	-	-	-	NW
G. STRIATA (Lam.) Hitchc.	fowl mannagrass	LC	H-M	x	-	-	x	x	-	-	-	widespread

GRAMINEAE: continued

			Zones									
Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
HIEROCHLOE R. Br.: sweetgrass												
	H. ODORATA (L.) Beauv.	sweetgrass	I	M	x	-	-	x	x	-	-	WNW,NW
HOLCUS L.: velvet-grass												
	*H. LANATUS L.	common velvet-grass	I	M	x	-	-	-	-	-	-	NW,SW
HORDEUM L.: barley												
	H. BRACHYANTHERUM Nevski	meadow barley	I	M-MX	x	-	-	x	x	-	-	N,NE
	H. JUBATUM L.	foxtail barley	LC	M-MX	x	x	x	x	x	-	-	widespread
	*H. VULGARE L.	barley	I	M	x	-	-	-	-	-	-	N
KOELERIA Pers.: koeleria												
	K. CRISTATA Pers.	Junegrass	C	MX-X	-	X	X	-	x	x	-	widespread
LOLIUM L.: ryegrass												
	*L. MULTIFLORUM Lam.	Italian ryegrass	I	M	x	-	-	-	-	-	-	N
	*L. PERENNE L.	perennial ryegrass	I	M	x	-	-	-	-	-	-	N
MELICA L.: melic, oniongrass												
	M. BULBOSA Geyer	oniongrass	I	M	-	-	-	x	x	x	-	SW,S
	M. SPECTABILIS Scribn.	showy oniongrass	I	M	-	-	-	x	x	x	-	S,SW
	M. SUBULATA (Griseb.) Scribn.	Alaskan oniongrass	I	M	-	-	-	x	x	-	-	NW
MUHLENBERGIA Schreb.: muhly												
	M. CUSPIDATA (Torr.) Rydb.	plains muhly	R	MX	-	x	-	-	-	-	-	SE
	M. FILIFORMIS (Thurb.) Rydb.	slender muhly	I	H-M	-	-	-	x	x	x	-	NW,SW
MUNROA Torr.: munroa												
	M. SQUARROSA (Nutt.) Torr.	false buffalograss	R	MX-X	-	x	-	-	-	-	-	N

GRAMINEAE: continued

		Zones									
Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution	
ORYZOPSIS Michx.: ricegrass											
O. EXIGUA Thurb.	little ricegrass	LC	MX-X	-	-	x	-	x	x	x	widespread
O. HYMENOIDES (R. & S.) Ricker	Indian ricegrass	R	MX-X	-	x	-	-	-	-	-	N
PANICUM L.: witchgrass, panicgrass											
P. CAPILLARE L.	common witchgrass	C	M	x	-	-	-	-	-	-	widespread
P. DICHOTOMIFLORUM Michx.	western witchgrass	R	M	x	-	-	-	-	-	-	N
*P. MILIACEUM L.	broomcorn millet	I	M	x	-	-	-	-	-	-	NW,N
P. OCCIDENTALE Scribn.	western witchgrass	I	H	x	-	-	x	-	-	-	WNW,SW
PHALARIS L.: canarygrass											
*P. AQUATICA L.	Harding grass	R	H-M	x	-	-	-	-	-	-	NW
P. ARUNDINACEA L.	reed canarygrass	LC	H-M	x	-	-	-	-	-	-	widespread
PHLEUM L.: timothy											
P. ALPINUM L.	alpine timothy	LC	M	-	-	-	x	x	x	x	widespread
*P. PRATENSE L.	common timothy	C	M	X	-	-	X	x	-	-	widespread
PHRAGMITES Trin.: reed											
P. COMMUNIS (L.) Trin.	common reed	I	H	x	-	-	-	-	-	-	NW
POA L.: bluegrass											
P. ALPINA L.	alpine bluegrass	I	M	-	-	-	-	-	x	x	NE,SE,S
P. ANNUA L.	annual bluegrass	LC	M	X	-	-	x	x	-	-	widespread
*P. BULBOSA L.	viviparous bluegrass	LC	M-MX	x	x	-	-	-	-	-	widespread
P. COMPRESSA L.	Canada bluegrass	C	M-MX	X	X	x	x	-	-	-	widespread
P. CUSICKII Vasey v. CUSICKII	Cusick's bluegrass	LC	MX	x	x	x	x	x	x	x	widespread
P. CUSICKII Vasey v. EPILIS (Scribn.)	Cusick's bluegrass	C	MX	-	-	-	x	X	X	x	widespread
P. FENDLERIANA (Steud.) Vasey	mutton-grass	I	MX-X	-	-	-	-	-	x	x	NW,SW

GRAMINEAE: continued

		Zones											
		Abundance	Habitat	Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
P. GRACILLIMA	Vasey slender bluegrass	LC	M	-	-	-	-	x	x	x	x	x	widespread
P. GRAYANA	Vasey Gray's bluegrass	R	M	-	-	-	-	-	-	x	x		NW,SW
P. INCURVA	Scribn. & Will. curly bluegrass	LC	M-MX	-	-	-	-	x	x	x	x	x	widespread
P. INTERIOR	Rydb. inland bluegrass	LC	M-MX	-	x	x	x	x	x	x	x	x	widespread
P. JUNCIFOLIA	Scribn. alkali bluegrass	R	M	x	-	-	-	-	-	-	-	-	NE
P. LEPTOCOMA	Trin. v. LEPTOCOMA bog bluegrass	I	M	-	-	-	-	-	x	x	x		SW
P. LEPTOCOMA	Trin. v. PAUCISPICULA (Scribn. & Merr.) Hitchc. bog bluegrass	I	M	-	-	-	-	-	-	x	-		SW
P. LETTERMANII	Vasey Letterman's bluegrass	R	M	-	-	-	-	-	-	-	-	x	SW
P. NERVOSA	(Hook.) Vasey Wheeler's bluegrass	C	M	-	x	X	X	X	X	X	x	-	widespread
P. NEVADENSIS	Vasey Nevada bluegrass	I	M-MX	x	-	-	-	-	-	-	-	-	widespread
*P. PALUSTRIS	L. fowl bluegrass	C	H-M	X	-	-	X	X	-	-	-	-	widespread
P. PATTERSONII	Vasey Patterson's bluegrass	I	M-MX	-	-	-	-	-	x	x	x		SW,NW
P. PRATENSIS	L. Kentucky bluegrass	C	M	X	x	x	X	x	x	x	x	-	widespread
P. REFLEXA	Vasey & Scribn. nodding bluegrass	I	M	-	-	-	-	-	x	x	-		SW
P. RUPICOLA	Nash timberline bluegrass	I	MX-X	-	-	-	-	-	-	x	x		SW,NW
P. SANDBERGII	Vasey Sandberg's bluegrass [P. secunda Presl]	C	M-MX	-	X	x	-	x	x	x	x		widespread
P. SCABRELLA	(Thurb.) Benth. pine bluegrass [P. canbyi (Scribn.) Howell]	I	M-MX	-	-	x	-	x	x	x	x		widespread

		Zones										
GRAMINEAE: continued		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
P. STENANTHA Trin.	Trinius' bluegrass	R	M	-	-	-	-	-	-	x	-	NW
*P. TRIVIALIS L.	rough bluegrass	R	M	x	-	-	-	-	-	-	-	SW
POLYPOGON Desf.: polyogon, beard-grass												
*P. MONSPELIENSIS (L.) Desf.	rabbitfoot polyogon	I	M-MX	x	-	-	-	-	-	-	-	NE
PUCCINELLIA Parl.: alkaligrass												
*P. DISTANS (L.) Parl.	weeping alkaligrass	I	MX	x	-	-	-	-	-	-	-	NW
P. NUTTALLIANA (Schult.) Hitchc.	Nuttall's alkaligrass	LC	M	x	-	-	-	-	-	-	-	NE
P. PAUCIFLORA (Presl) Munz	weak alkaligrass	LC	H-M	x	-	x	x	x	x	-	-	NW,SW
SCHIZACHNE Hack.: false melic												
S. PURPURASCENS (Torr.) Swallen	false melic	I	M-MX	-	-	x	-	x	-	-	-	SE,SW
SECALE L.: rye												
*S. CEREALE L.	rye	I	M	-	x	-	-	-	-	-	-	N
SETARIA Beauv.: bristlegrass, foxtail												
*S. LUTESCENS (Weigel) Hubb.	yellow foxtail	R	M	x	x	-	-	-	-	-	-	N
*S. VIRIDIS (L.) Beauv.	green foxtail	LC	M	x	x	-	-	-	-	-	-	widespread
SITANION Raf.: squirreltail												
S. HYSTRIX (Nutt.) Smith	bottlebrush squirreltail	I	M-MX	-	x	x	-	x	x	x	-	NW,NE,N
SPARTINA Schreb.: cordgrass												
S. GRACILIS Trin.	alkali cordgrass	R	H-M	x	-	-	-	-	-	-	-	NW
S. PECTINATA Link	prairie cordgrass	R	H-M	x	-	-	-	-	-	-	-	N
SPHENOPHOLIS Scribn.: wedgegrass												
S. OBTUSATA (Michx.) Scribn.	prairie wedgegrass	R	M	x	-	-	-	-	-	-	-	NW

GRAMINEAE: continued		Zones									
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
STIPA L.: needlegrass											
S. COMATA Trin. & Rupr. needle-and-thread	LC	M-MX	x	-	-	-	-	-	-	-	NW,NE
S. OCCIDENTALIS Thurb. v. OCCIDENTALIS western needlegrass	LC	M-MX	-	x	x	-	x	x	-	-	NW,N
S. OCCIDENTALIS Thurb. v. MINOR (Vasey) Hitchc. western needlegrass	I	MX-X	-	-	-	-	-	x	x	x	SW,NW
S. RICHARDSONII Link Richardson's needlegrass	I	MX	-	x	-	-	-	-	-	-	NW,N
S. VIRIDULA Trin. green needlegrass	I	MX	x	x	-	-	-	-	-	-	N,SW,SE
TRISETUM Pers.: trisetum, oatgrass											
T. CANESCENS Buckl. tall trisetum	I	M-MX	x	x	x	x	x	-	-	-	NW,N
T. CERNUUM Trin. nodding trisetum	I	M	x	-	-	x	x	-	-	-	NW
T. ORTHOCHAETUM A.S. Hitchc. Lolo trisetum	R	M	-	-	-	-	x	-	-	-	NNW
T. SPICATUM (L.) Richter downy oatgrass [T. congoni Scribn.]	C	M-MX	-	x	x	-	x	x	X	X	widespread
T. WOLFII Vasey wolf's trisetum	I	H-M	-	-	-	x	x	x	-	-	WNW,NW,N
TRITICUM L.: wheat											
*T. AESTIVUM L. wheat	I	M	-	x	-	-	-	-	-	-	N
HYDROCHARITACEAE Frog's-bit Family											
ELODEA Richard.: waterweed, ditchmoss											
E. CANADENSIS Richard. Canada waterweed	C	Aq	X	-	-	-	-	-	-	-	widespread
IRIDACEAE Iris Family											
SISYRINCHIUM L.: blue-eyed grass											
S. ANGUSTIFOLIUM Mill. blue-eyed grass	LC	M	x	-	-	-	-	-	-	-	NW,SW,N

JUNCACEAE
Rush Family

			Zones										
			Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
JUNCUS L.: rush													
J. ALPINUS	Vill.	northern rush	I	H-M	x	-	-	x	x	-	-	-	NW
J. ARTICULATUS	L.	jointed rush	I	H-M	x	-	-	-	-	-	-	-	NW
J. BALTICUS	Willd. v. Engelm.	MONTANUS wiregrass, Baltic rush	C	H-M	X	-	-	X	X	-	-	-	widespread
J. BALTICUS	Willd. v. Rydb.	VALLICOLA wiregrass, Baltic rush	C	H-M	x	-	-	-	-	-	-	-	widespread
J. BUFONIUS	L.	toad rush	C	H-MX	X	-	-	x	x	-	-	-	widespread
J. CONFUSUS	Cov.	Colorado rush	R	M	x	-	-	-	-	-	-	-	NW
J. COVILLEI	Piper v. Hitchc.	OBTUSATUS Coville's rush	R	M	x	-	-	-	-	-	x	-	SW,N
J. DRUMMONDII	E. Mey. v. Drummond's	Drummond's rush	C	M	-	-	-	-	x	x	X	X	widespread
J. DRUMMONDII	E. Mey. v. Hitchc.	SUBTRIFLORUS Drummond's rush	R	M	-	-	-	-	-	x	-	-	NW,SW
J. EFFUSUS	L. v. Court.	COMPACTUS soft rush	I	H-M	x	-	-	-	-	-	-	-	NW,SW,N
J. ENSIFOLIUS	Wikst. v. Wikst.	ENSIFOLIUS dagger-leaf rush	C	H-M	x	-	-	X	X	x	-	-	widespread
J. ENSIFOLIUS	Wikst. v. Hitchc.	MONTANUS dagger-leaf rush	I	H-M	-	-	-	-	-	x	x	-	NW,SW
J. FILIFORMIS	L.	thread rush	I	H-M	-	-	-	x	x	-	-	-	NW
J. INTERIOR	Wieg.	inland rush	R	M	x	-	-	-	-	-	-	-	NW
J. LONGISTYLIS	Torr.	long-styled rush	LC	M	x	-	-	x	x	-	-	-	widespread
J. MERTENSIANUS	Bong.	Merten's rush	C	H-M	-	-	-	x	X	X	x	x	widespread
J. NEVADENSIS	Wats. v. Hitchc.	BADIUS Sierra rush	LC	H-M	x	-	-	x	-	-	-	-	widespread
J. NODOSUS	L.	tuberous rush	LC	H-M	x	-	-	-	-	-	-	-	NW,N
J. PARRYI	Engelm.	Parry's rush	C	MX-X	-	-	-	-	x	x	X	X	widespread
J. REGELII	Buch.	Regel's rush	I	H-M	-	-	-	x	x	-	-	-	SW
J. TENUIS	Willd. v. Tenuis	TENUIS slender rush	C	M-MX	X	x	x	X	-	-	-	-	widespread

		Zones								Geographic Distribution	
		Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine		Timberline Alpine
JUNCACEAE: continued											
J. TENUIS Willd. v. CONGESTUS Engelm.	slender rush	C	M-MX	X	x	x	X	-	-	-	widespread
J. TENUIS Willd. v. DUDLEYI (Wieg.) Herm.	slender rush	I	M-MX	x	-	-	x	-	-	-	NW
J. TORREYI Cov.	Torrey's rush	R	H-M	x	-	-	-	-	-	-	NW
LUZULA DC.: woodrush											
L. ARCUATA (Wahlenb.) Wahlenb.	curved woodrush	R	M-MX	-	-	-	-	-	x	x	NW,SW
L. CAMPESTRIS (L.) DC. v. MULTIFLORA (Ehrh.) Celak.	sweeps' brush	C	M	x	-	x	X	X	x	-	widespread
L. HITCHCOCKII Hamet-Ahti	smooth woodrush	C	M	-	-	-	-	x	X	X	widespread
[L. glabrata (Hoppe) Desv.]											
L. PARVIFLORA (Ehrh.) Desv.	small-flowered woodrush	C	M-MX	-	-	-	x	X	X	x	widespread
L. PIPERI (Cov.) Jones	Piper's woodrush	I	M-MX	-	-	-	-	-	x	x	NW,SW
[L. wahlenbergii Rupr.]											
L. SPICATA (L.) DC.	spiked woodrush	C	M-X	-	-	x	-	x	x	X	widespread
JUNCAGINACEAE Arrow-grass Family											
TRIGLOCHIN L.: arrow-grass											
T. PALUSTRE L.	marsh arrow-grass	R	H-M	-	-	-	-	x	-	-	NE
LEMNACEAE Duckweed Family											
LEMNA L.: duckweed											
L. MINOR L.	small duckweed, water lentil	C	Aq	x	-	-	-	-	-	-	widespread
L. TRISULCA L.	star duckweed	I	Aq	x	-	-	-	-	-	-	SW
SPIRODELA Schleid.: great duckweed											
S. POLYRHIZA (L.) Schleid.	great duckweed	I	Aq	x	-	-	-	-	-	-	NE,N

LILIACEAE
Lily Family

Zones

	Abundance	Habitat Moisture	Valley-moist Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline	Alpine	Geographic Distribution
ALLIUM L.: onion, garlic, chives										
A. ACUMINATUM Hook. tapertip onion	R	M-MX	- - -	x x	- - -	- - -	- - -	- - -	- - -	SE
A. BREVISTYLUM Wats. short-style onion	I	M	- - -	x x	- - -	- - -	- - -	- - -	- - -	SE
A. CERNUUM Roth nodding onion	C	M-MX	- X X	- x x	- - -	- - -	- - -	- - -	- - -	widespread
A. GEYERI Wats. Geyer's onion	I	M	- - -	x x	- - -	- - -	- - -	- - -	- - -	SW,N
A. PARVUM Kell. dwarf onion	R	M-MX	- - x	- - -	- - -	- - -	- - -	- - -	- - -	S,SE
A. SCHOENOPRASUM L. chives	I	M	x - -	- - x	- - -	- - -	- - -	- - -	- - -	N,NW,NE
A. SIMILLIMUM Hend. dwarf onion	I	M-MX	- - x	- x	- - -	- - -	- - -	- - -	- - -	SW,S
A. TEXTILE Nels. & Macbr. textile onion	LC	MX	- x -	- - -	- - -	- - -	- - -	- - -	- - -	NE,SE
ASPARAGUS L.: asparagus										
*A. OFFICINALIS L. asparagus	I	M	x x	- - -	- - -	- - -	- - -	- - -	- - -	N,NW,SW
BRODIAEA Sm.: brodiaea, cluster lily										
B. DOUGLASII Wats. wild hyacinth	LC	M-MX	- X x	- - -	- - -	- - -	- - -	- - -	- - -	widespread
CALOCHORTUS Pursh: mariposa, sego lily										
C. APICULATUS Baker pointed mariposa	LC	M-MX	- x x	- x	- - -	- - -	- - -	- - -	- - -	N,NE,SE
C. ELEGANS Pursh v. SELWAYENSIS (St. John) Ownbey elegant mariposa, cat's ear	LC	M-MX	- x x	- x x	- - -	- - -	- - -	- - -	- - -	NNW,NW,S
C. EURYCARPUS Wats. big-pod mariposa [C. nitidus Dougl. v. eurycarpus Hend.]	R	M-MX	- - x	- - -	- - -	- - -	- - -	- - -	- - -	SE
CAMASSIA Lindl.: camas										
C. QUAMASH (Pursh) Greene camas	LC	M	x - -	x x	- - -	- - -	- - -	- - -	- - -	widespread
CLINTONIA Raf.: queencup										
C. UNIFLORA (Schult.) Kunth queencup	LC	M	x - -	x x	- - -	- - -	- - -	- - -	- - -	widespread

LILIACEAE: continued

			Zones								
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution	
DISPORUM Salisb.: fairy-bell											
D. HOOKERI (Torr.) Nicholson Hooker's fairy-bell	I	M	x	-	x	x	x	-	-	NW,SW	
D. TRACHYCARPUM (Wats.) Benth. & Hook. wartberry fairy-bell	LC	M	x	-	-	X	x	-	-	widespread	
ERYTHRONIUM L.: dogtooth-violet, glacier-lily											
E. GRANDIFLORUM Pursh glacier-lily	C	M-MX	-	x	x	x	X	X	x	-	widespread
FRITILLARIA L.: fritillary											
F. ATROPURPUREA Nutt. leopard-lily	I	M-MX	-	x	x	-	-	-	-	-	NW,SW
F. PUDICA (Pursh) Spreng. yellow bells	C	M-MX	-	X	x	-	-	-	-	-	widespread
HEMEROCALLIS L.: daylily											
*H. FULVA L. daylily	R	M	x	-	-	-	-	-	-	-	NW
LLOYDIA Salisb.: lloydia											
L. SEROTINA (L.) Sweet alp-lily	I	M	-	-	-	-	-	-	x	x	NW,SW,N
SMILACINA Desf.: false Solomon's seal											
S. RACEMOSA (L.) Desf. western false Solomon's seal	C	M	X	x	X	X	X	-	-	-	widespread
S. STELLATA (L.) Desf. starry false Solomon's seal	C	M-MX	X	x	x	X	X	-	-	-	widespread
STENANTHIUM (Gray) Kunth: stenanthium											
S. OCCIDENTALE Gray western stenanthium	I	M	-	-	x	x	x	x	x	-	WNW,NW,SW
STREPTOPUS Michx: twisted-stalk											
S. AMPLEXIFOLIUS (L.) DC. v. CHALAZATUS Fassett twisted stalk	C	M	-	-	x	X	X	-	-	-	widespread
TOFIELDIA Huds.: tofieldia											
T. GLUTINOSA (Michx.) Pers. v. MONTANA (Hitche.) Davis tofieldia	LC	M	-	-	-	-	x	x	x	-	widespread

LILIACEAE: continued

		Zones							
Abundance	Habitat Moisture	Valley-moist Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution	
TRILLIUM L.: trillium, wake-robin									
T. OVATUM Pursh	C M	- - x X X	- - -	- - -	- - -	- - -	- - -	widespread	
trillium, wake-robin									
VERATRUM L.: false hellebore									
V. VIRIDE Ait.	C M	- - - x X x x	- - -	- - -	- - -	- - -	- - -	widespread	
false hellebore									
XEROPHYLLUM Michx.: beargrass									
X. TENAX (Pursh) Nutt.	C M-MX	- - x X X X x	- - -	- - -	- - -	- - -	- - -	widespread	
beargrass									
ZIGADENUS Michx.: death-camas									
Z. ELEGANS Pursh	LC M	- - - - x x x	- - -	- - -	- - -	- - -	- - -	SW,SE,S,N	
mountain death-camas									
Z. VENENOSUS Wats. v. GRAMINEUS (Rydb.) Walsh	C M-MX	- X X x x x	- - -	- - -	- - -	- - -	- - -	widespread	
common death-camas									

ORCHIDACEAE
Orchid Family

CALYPSO Salisb.: fairy-slipper, calypso								
C. BULBOSA (L.) Oakes	LC M	- - x x x	- - -	- - -	- - -	- - -	- - -	widespread
fairy slipper								
CORALLORHIZA Chat.: coral-root								
C. MACULATA Raf.	C M	- x X X x	- - -	- - -	- - -	- - -	- - -	widespread
spotted coral-root								
C. MERTENSIANA Bong.	R M	- - x x x	- - -	- - -	- - -	- - -	- - -	NW,SE,N
western coral-root								
C. STRIATA Lindl.	I M	- - x x x	- - -	- - -	- - -	- - -	- - -	N
striped coral-root								
C. TRIFIDA Chat.	I M	- - - x x	- - -	- - -	- - -	- - -	- - -	NW,SW,N
yellow coral-root								
CYPRIPEDIUM L.: lady's slipper								
C. CALCEOLUS L. v. PARVIFLORUM (Salisb.) Fern.	R M	x - - - - -	- - -	- - -	- - -	- - -	- - -	NW
yellow lady's slipper								
C. MONTANUM Dougl.	I M	- - x x - - -	- - -	- - -	- - -	- - -	- - -	SW,N
white lady's slipper								

ORCHIDACEAE: continued

			Zones								
	Abundance	Habitat Moisture	Valley-moist	Valley-dry	Montane-dry	Montane-moist	L. Subalpine	U. Subalpine	Timberline Alpine	Geographic Distribution	
GOODYERA R. Br.: rattlesnake-plantain											
G. OBLONGIFOLIA Raf. western rattlesnake-plantain	C	M	x	-	X	X	X	x	-	-	widespread
HABENARIA Willd.: bog-orchid, rein-orchid											
H. DILATATA (Pursh) Hook. v. LEUCOSTACHYS (Lindl.) Ames white bog-orchid	LC	H-M	x	-	-	x	x	-	-	-	widespread
H. ELEGANS (Lindl.) Boland. elegant rein-orchid	R	M	-	-	-	x	-	-	-	-	WNW,SE
H. HYPERBOREA (L.) R. Br. northern green bog-orchid	I	H	x	-	-	x	x	-	-	-	NW,SE,S
H. SACCATA Greene slender bog-orchid	LC	H-M	-	-	-	x	x	-	-	-	widespread
H. UNALASKENSIS (Spreng.) Wats. Alaskan rein-orchid	I	M-MX	-	x	x	-	x	-	-	-	WNW,NW, SW,SE,N
Listera R. Br.: twayblade, listera											
L. CAURINA Piper western twayblade	I	M	-	-	-	x	x	-	-	-	WNW,NW, SW,N
L. CONVALLARIOIDES (Sw.) Nutt. broad-lipped twayblade	R	M	-	-	-	x	-	-	-	-	N
L. CORDATA (L.) R. Br. heartleaf twayblade	LC	M	-	-	-	x	x	x	-	-	widespread
Spiranthes L.C. Rich.: ladies-tresses											
S. ROMANZOFFIANA Cham. ladies-tresses	LC	H-M	-	-	-	x	x	x	x	-	NW,SW, NE,N
POTAMOGETONACEAE Pondweed Family											
Potamogeton L.: pondweed											
P. ALPINUS Balbis northern pondweed	LC	Aq	x	-	-	x	x	-	-	-	NE
P. AMPLIFOLIUS Tuckerman large-leaved pondweed	LC	Aq	x	-	-	-	-	-	-	-	N,NE
*P. CRISPUS L. curled pondweed	LC	Aq	x	-	-	-	-	-	-	-	N

Zones

POTAMOGETONACEAE: continued

	Abundance	Habitat Moisture	Valley-moist Valley-dry Montane-dry Montane-moist L. Subalpine U. Subalpine Timberline Alpine	Geographic Distribution
P. EPIHYDRUS Raf. ribbon-leaf pondweed	LC	Aq	x - - - - -	N
P. FILIFORMIS Pers. slender-leaved pondweed	LC	Aq	x - - - - -	NE
P. FOLIOSUS Raf. close-leaved pondweed	LC	Aq	x - - - - -	NE, SW
P. GRAMINEUS L. grass-leaved pondweed	LC	Aq	x - - - - -	NE
P. ILLINOENSIS Morong Richardson's pondweed	LC	Aq	x - - - - -	SW
P. NATANS L. floating-leaved pondweed	LC	Aq	x - - - - -	N, NW, SW
P. PECTINATUS L. fennel-leaved pondweed	LC	Aq	x - - - - -	NW, SW
P. PRAELONGUS Wulf. long-stalk pondweed	LC	Aq	x - - - - -	N
P. ZOSTERIFORMIS Fern. eel-grass pondweed	LC	Aq	x - - - - -	NW, SW

SPARGANIACEAE
Bur-reed Family

SPARGANIUM L.: bur-reed

S. ANGUSTIFOLIUM Michx. narrow-leaved bur-reed	I	H	x - - - - -	NW, N
S. EURICARPUM Engelm. broad-fruited bur-reed	I	H	x - - - - -	SW

TYPHACEAE
Cat-tail Family

TYPHA L.: cat-tail

T. LATIFOLIA L. common cat-tail	C	H	x - - - - -	widespread
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ZANNICHELLIACEAE
Horned Pondweed Family

ZANNICHELLIA L.: horned pondweed

Z. PALUSTRIS L. horned pondweed	LC	Aq	x - - - - -	widespread
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BRASSICA	44	CARDARIA	45
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sweetgrass	106	TYPHACEAE	117
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sweetvetch	58	ULMACEAE	89
swertia	52	ULMUS	89

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URTICA	92	waterleaf	54
URTICACEAE	92	waterweed	110
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		wedgegrass	109
VACCARIA	27	western red cedar	16
VACCINIUM	51	wheat	110
Valerian Family	92	wheatgrass	100
valerian	92	white-top	45
VALERIANA	92	whitlow-grass	45
VALERIANACEAE	92	wild cucumber	48
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VERBASCUM	88	willow weed	68
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vervain	93	witchgrass	107
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VICIA	60	wood-sorrel	65
VIOLA	93	woodnymph	51
VIOLACEAE	93	woodreed	103
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violet	93	woodsia	16
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Lackschewitz, Klaus. Plants of west-central Montana—identification and ecology: annotated checklist. General Technical Report INT-217. Ogden, UT: U.S. Department of Agriculture, Forest Service, Intermountain Research Station; 1986. 128 p.

This comprehensive checklist provides detailed information on the abundance, habitat relationships, and geographic distributions of 1,536 species and varieties of vascular plants growing in west-central Montana, including the Bitterroot National Forest and portions of the Lolo National Forest. Occurrence of each species is listed in relation to habitat type, a widely used site classification. This publication is intended to aid scientists, resource managers, and educators in and near western Montana and might serve as a guide for preparation of similar information in other regions.

KEYWORDS: habitat types, Northern Rocky Mountains, natural vegetation, plant distribution, plant abundance

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INTERMOUNTAIN RESEARCH STATION

The Intermountain Research Station provides scientific knowledge and technology to improve management, protection, and use of the forests and rangelands of the Intermountain West. Research is designed to meet the needs of National Forest managers, Federal and State agencies, industry, academic institutions, public and private organizations, and individuals. Results of research are made available through publications, symposia, workshops, training sessions, and personal contacts.

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