

FLORISTICS OF THE UPPER WALKER RIVER, CALIFORNIA AND NEVADA

Matt Lavin¹

ABSTRACT.—A checklist of the vascular flora of the upper Walker River is presented. Listed are 1078 taxa from this 4000 km² area. The upper Walker River encompasses a portion of the boundary between the Intermountain and Sierra Nevada floristic regions, and hence displays much floristic diversity within a relatively small area. Due to its location along the east slope of the Sierra Nevada, the Walker River drainage is unique in that it contains much elevational variation eastward into the Intermountain Region. This elevational extension is due to the presence of large mountain ranges including the Sweetwater Mountains, the Bodie Hills, and the Wassuk Range. As a result of this elevational variation, there is much overlapping of the two floristic regions. Additionally, the easternmost exposures of the Sierran grandiorites occur within the Walker River basin and may enhance the eastward migration of Sierran plants. The 90 percent floristic similarity (Sorenson's) between the Sweetwater Mountains, lying to the east of the Sierra, and the east slope of the Sierra Nevada (within the Walker River drainage) indicates the Sweetwaters to be more affiliated with the Sierran flora instead of the Intermountain flora.

The upper Walker River drainage includes an area of approximately 4000 km², located at the north end of Mono County, California, the southern ends of Douglas and Lyon counties, Nevada, and the western edge of Mineral County, Nevada. The western boundary of this drainage generally follows the crest of the Sierra Nevada from the Conway Summit-Virginia Lakes area, northward to the Topaz Lake-Monitor Pass area. The eastern boundary is delimited by the Bodie, Masonic, and Pine Grove hills and the southwest slopes of the Pine Nut Range. The Sweetwater Mountains and the Wellington hills lie between these hills and the Sierra Nevada.

East slope Sierran vegetation present here has been generally described by Billings (1951) and Rundel et al. (1977). The area is dominated by mixed conifer forests composed of *Pinus jeffreyi* and *Abies concolor* at the low elevations, and *Abies magnifica*, *Tsuga mertensiana*, *Pinus monticola*, and *P. albicaulis* at the higher elevations. The alpine vegetation of the Sierra is uniquely adapted for extreme summer drought (Chabot and Billings 1972).

To the east of the Sierra, Intermountain vegetation (high elevation sagebrush steppe situated above woodlands composed of *Pinus monophylla* and *Juniperus osteosperma*) pre-

dominates. This vegetation has also been briefly described by Billings (1951). The Sweetwater Mountains, situated between the Intermountain and Sierran floristic regions, display characteristics of both.

The vascular flora of the upper Walker River is modestly represented in literature. Works such as Hinton (1975), Reveal (1968), Cox (1972), Reveal and Ertter (1980), Hardham and True (1972), Strother (1974), Munz (1968), Barneby (1964), Dempster and Ehrendorfer (1965), Halse (1981), and others cite specific collections made within this area. Davis (1979) compiled a plant list and keys to the plants occurring on the east central Sierra (Owens Lake to Lake Tahoe) and associated desert ranges. This work was based solely on distributions given in existing floras.

Sharpsmith (1940) includes the Walker River portion of the Sierra Nevada as the northernmost boundary of the Sierra alpine floristic region. This area includes Leavitt Peak south to Dunderberg Peak. Thorne (1982) defines the upper Walker River basin as the northern boundary of the transmontane Californian floristic region.

Major and Taylor (1977) conducted a vegetation study of the alpine zone of the Sweetwater Mountains. They list 43 species from the area. Taylor (1977) indicates a 40–50

¹Department of Biology, University of Nevada, Reno, Nevada 89557. Present address: P.O. Box 13494, Reno, Nevada 89507.

percent floristic similarity (Sorenson's) between the Carson Pass area of the Sierra Nevada and the Sweetwater Mountains. Since a 50 percent turnover rate in plant species occurs every 650 km along the Cascade-Sierran axis (Taylor 1977), the Walker River portion of the Sierra must have a very high degree of similarity with Carson Pass, 60 km to the north. An interpretation of this would mean the Walker River portion of the Sierra has approximately a 50 percent floristic similarity to the Sweetwaters.

Bell (1980) described the alpine flora of the Wassuk Range, located in the lower Walker River drainage just west of Walker Lake (50 km east of the Sweetwater Mountains). She lists 70 vascular plants from the alpine flora of this region. Bell has also recently completed a study of the alpine flora of the Sweetwater Mountains, but this information is unavailable.

Messick (1982) completed a flora of the Bodie Hills, and the results of this work are incorporated in Table 1.

The upper Walker River drainage is the region of several type collections. The Sweetwater Mountains are the type locale for *Cordylanthus ramosus* ssp. *setosus*, *Senecio pattersonensis* and *Draba lemmonii* var. *incrassata*. In the Bodie Hills, we have the type locale for *Draba quadricostata*, *Pinus monophylla*, *Arabis bodiensis* (see Rollins 1982), *Streptanthus oliganthus*, and *Phacelia monoensis*. *A. bodiensis*, *S. pattersonensis*, *D. lemmonii* var. *incrassata*, and *D. quadricostata* are endemic to the Walker River drainage.

The Wellington Hills are the type locale for *Astragalus oophorus* var. *lavinii*, and Sonora Pass for *Raillardella argentea*, *Cymopterus cinerarius*, and *Wyethia mollis*. "A dry rocky mountain near Sonora Pass" is the type location for *Astragalus platytropis*, *A. lentiginosus* var. *ineptus*, and *A. whitneyi*. Barneby suggests that the type locale for these three Astragali may be the Sweetwater Mountains. However, during the course of this investigation, all three, including *A. platytropis*, were found on Leavitt and Emma Peak of the Sierra Nevada. Therefore, the type locale given by Gray could have possibly referred to the Sierra instead of the Sweetwaters.

METHODS

The checklist (Table 1) was developed from collections made during the course of this study: July 1979 to August 1982. Additional collections were recorded from the herbaria at the University of Nevada, Reno (RENO), The New York Botanical Garden (NY), and the California Academy of Sciences (CAS). Collections from the upper Walker River made by Arnold Tiehm and Margaret Williams, Reno, Nevada; Steve Wharff, Tonopah, Nevada; Frank Smith, Smithfield, Utah; Dennis Breedlove, CAS; Joe Robertson, E. F. Kleiner, Tom Lugaski, Pat and Ham Vreeland, H. N. Mozingo, and Fred Ryser, all from the University of Nevada, Reno, were also recorded in this checklist. Approximately 3850 numbers were recorded. Distributional information contained within the checklist was continually refined while in the field. Various documentary works, mentioned in the introduction, were used to determine those plants that have a probable distribution within the upper Walker River drainage, but were not observed during this study.

Almost all of the taxa listed can be found on deposit at the University of Nevada, Reno, herbarium and the Toiyabe National Forest Supervisor's Office, Reno, Nevada.

The purposes of the checklist (Table 1) are to both document the flora present in the upper Walker River and to document the geographical and altitudinal distribution of each taxon within this area. Nomenclature generally follows Kartesz and Kartesz (1980).

RESULTS AND DISCUSSION

Table 1 lists 1078 taxa of vascular plants from the upper Walker River. The upper Walker River drainage is unique in that it extends much elevational variation of the east slope of the Sierra Nevada eastward into the Intermountain Region, due to the presence and close proximity of such large mountain ranges as the Sweetwater Mountains, the Bodie Hills, and the Wassuk Range. Along any floristic boundary there is bound to be some overlap of unique plant species or characteristic vegetation of one flora into another. However, many plants having their center of distribution in the Intermountain Region

also have outlying populations in the montane environments of the Sierra Nevada. This phenomenon is discussed by Taylor (1976) for the Carson Pass area of the Sierra. He attributes the occurrence of many Intermountain plants on the east slope of the Sierra to Xerothermic invasion. A list of these plants at the headwaters of the Walker River follow:

Agoseris glauca var. *monticola*
Allium biceptum
Allium parvum
Arabis bodiensis
A. pulchra var. *pulchra*
Artemisia arbuscula
Aster ascendens
Astragalus platytropis
A. iodanthus
Amelanchier utahensis
Antennaria dimorpha
Balsamorhiza sagittata
Calyptidium roseum
Cercocarpus ledifolius
Cirsium utahense
Cheilanthes gracillima
Chenopodium overi
Chorizanthe brevicornu var. *spathulata*
Chrysanthemum nauseosus ssp. *albicaulis*
C. viscidiflorus
Crepis acuminata
C. modocensis ssp. *subacaulis*
Castilleja linariifolia
Cordylanthus ramosus ssp. *setosus*
Cryptantha circumscissa
Cryptantha echinella
Erigeron aphanactis
E. nevadincola
E. breweri var. *porphyreticus*
E. eatonii ssp. *plantagineus*
Eriogonum elatum
E. microthecum var. *ambiguum*
E. ovalifolium var. *nevadense*
E. wrightii var. *subscaposum*
Galium multiflorum
Gilia leptantha ssp. *salticola*
Grayia spinosa
Haplopappus acaulis
Heuchera duranii
Hydrophyllum capitatum var. *alpinum*
Leptodactylon pungens
Linanthus nuttallii
Lupinus caudatus ssp. *caudatus*
L. nevadensis
Lomatium nevadense var. *nevadense*
Lomatium nevadense var. *parishii*
Melica stricta
Mentzelia congesta
Mimulus densus
M. rubellus
Navarretia breweri
Opuntia polyacantha var. *rufispina*
Poa nevadensis var. *juncifolia*
P. nevadensis var. *nevadensis*
Paeonia brownii

Penstemon bridgesii
Phoenicaulis cheiranthoides
Phacelia humilis
Phlox covillei
Plagiobothrys hispidus
P. kingii var. *harknessii*
Prunus andersonii
Purshia tridentata
Pinus monophylla
Ribes velutinum
Rosa woodsii var. *ultramontana*
Scrophularia desertorum
Senecio canus
S. pattersonensis
S. spartioides
Sisyrinchium halophilum
Sphaeromeria cana
Stephanomeria spinosa
Streptanthus oliganthus
Tetradymia canescens
Thelypodium crispum
Zigadenus paniculatus

These 77 plant taxa represent approximately 10 percent of the flora present on the east slope of the Sierra within the Walker River drainage. This is below Taylor's (1976) estimate of 20 percent for the east slope within the Carson River drainage just to the north. However, when distribution records become more complete, it would not be surprising to find 20 percent of the Sierran flora within the Walker River basin being composed of Intermountain elements.

The Xerothermic climate may also have been responsible for the northern migration of *Amelanchier pallida* var. *covillei*, *Ceanothus greggii* var. *vestitus*, *Cercocarpus ledifolius* var. *intricatus*, *Ivesia purpurascens* ssp. *congdonis*, *Cryptantha confertiflora*, *Phacelia peirsoniana*, and *Plagiobothrys jonesii*. The Walker River drainage may be the northernmost location for these plants. (*Cryptantha confertiflora* has been found just to the north in the Carson River drainage.)

It is documented that the eastward migration of Sierran plant species into the Intermountain Region is small relative to the westward migration of Rocky Mountain plants into this region (Harper et al. 1978). However, the Walker River drainage has many Sierra or Pacific cordilleran plant species occurring well into the Intermountain Region, some of which occur as far east as Masonic Mountain or the Wassuk Range. A list of these plants follows:

Agropyron pringlei
Allium campanulatum

Allophylum gilioides
A. violaceum
Amelanchier pallida
Anelsonia eurycarpa
Angelica lineariloba
Arabis inyoensis
A. platysperma var. *howellii*
Arnica nevadensis
Astragalus kentrophyta var. *danaus*
A. lentiginosus var. *ineptus*
A. purshii var. *lectulus*
Calochortus leichtlinii
Carex tahoensis
Chaenactis nevadensis
Chrysothamnus parryi ssp. *monocephalus*
Claytonia nevadensis
Cryptantha glomeriflora
Cryptantha nubigena
Cymopteris cinerarius
Draba lemmonii (var. *incrassata*)
D. oligosperma var. *subsessilis*
D. stenoloba var. *ramosa*
Erigeron petiolaris
E. pygmaeus
Eriogonum rosense
Gentianopsis holopetala
Gentiana newberryi
Geum canescens
Galium hypotrichium ssp. *hypotrichium*
Haplopappus apargioides
Hieracium horridum
Ivesia lycopodioides
I. purpurascens ssp. *congdonis*
Juniperus occidentalis ssp. *australis*
Kalmia microphylla
Ledum glandulosum var. *californica*
Leucophysalis nana
Lupinus andersonii
L. caudatus ssp. *montigenus*
L. confertus
L. hypolasius
L. meionanthus
L. caudatus ssp. *montigenus*
L. sellulus var. *lobbii*
L. tegeticulatus (*breweri bryoides*)
Luzula divaricata
Mimulus coccineus
Penstemon davidsonii var. *davidsonii*
Pinus jeffreyi
P. monticola
Polygonum douglasii var. *latifolia*
Raillardella argentea
Rhamnus rubra ssp. *rubra*
Scirpus clementis
Senecio fremontii var. *occidentalis*
S. scorzonella
Sisyrinchium idahoense var. *occidentale*
Symporicarpus parishii
Trifolium andersonii ssp. *andersonii*

Additionally, work done by Goodrich (1981) in central Nevada has shown that several other Pacific cordilleran plants extend

their ranges far into the Intermountain Region. These plants, also found extending eastward within the Walker River basin, include *Artemisia rothrockii*, *Carex helleri*, *Silene sargentii*, *Astragalus whitneyi* (see Reveal 1979) and *Astragalus purshii* var. *tinctus* (see Barnaby 1964). *Silene sargentii* has been listed as endemic to the Sierra Nevada. However, the type collection, as given by Hitchcock and Maguire (1947), is from Table Mountain of the Monitor Range in central Nevada.

The eastward distribution of these Sierran plants may be enhanced by the very eastern exposures of the Sierran granodiorites. These granites can be found as far east as the Was-suk Range (Bateman 1967). However, the most likely factor enhancing the migration of these Sierran plants is the abundance of montane and alpine habitats found eastward into the Intermountain Region. The floristic components of the Sweetwater Mountains point to this eastward migration.

The Sweetwaters, situated between the Sierra and Intermountain floristic regions, are regarded as belonging to the Intermountain flora (Cronquist et al. 1972). Sierra conifer forests are extensive on the Sweetwaters, especially toward the southern end. The timberline vegetation is dominated solely by *Pinus albicaulis*, a Sierran characteristic.

Using the information provided in Table 1, Sorenson's index of similarity (Billings 1978) between the Sierra and Sweetwaters can be determined with regard to floristic elements in both the alpine and the montane conifer forests. These are calculated to be 90 and 93 percent, respectively. This indicates the Sweetwater Mountains to be more affiliated, floristically, with the Sierra than previously thought.

However, it might be considered that the east slope of the Sierra, within the Walker River drainage, being influenced by Intermountain vegetation, is bound to yield a high index of similarity to the Sweetwaters. In other words, the whole of the upper Walker could be considered "Intermountain" with regard to vegetational composition. This is reinforced by the fact that the Walker River portion of the Sierra does lack typical "understory" brush vegetation that is found just to the north in the Carson River drainage. *Arctostaphylos patula*, *Ceanothus cordulatus*

and *C. prostratus* have not been found here (or are at least not abundant) and *A. nevadensis* was found only twice in very small populations. Instead, the dominant brush cover consists of *Purshia tridentata*, *Ceanothus velutinus*, *Artemesia tridentata* ssp. *vaseyana*, and *Symphoricarpos oreophilus*.

In comparing all the upper Walker River flora with the flora of central Nevada (Goodrich 1981), both floras being just about equal in number of taxa, approximately a 50 percent similarity can be determined. The Sweetwaters could, therefore, be easily considered as part of the east slope Sierran flora. Aside from the high indices of similarity, the Sweetwaters are dominated by many Sierra or Pacific cordillera plant species; *Lupinus hypolasius*, *Chrysothamnus parryi* ssp. *moncephalus*, and *Draba oligosperma* var. *subsessilis* at the highest elevations, and *Pinus jeffreyi* and *P. contorta* var. *murrayana* at the lower elevations.

ACKNOWLEDGMENTS

This study was funded by the U.S. Forest Service, Toiyabe National Forest. I am very grateful to them for this and for their cooperation. Thanks to Sue Sullivan, U.S. Forest Service, the checklist (Table 1) and its transfer to Brigham Young University Press was made possible. For their help with identification of plant specimens, I am indebted to Warren Wagner (*Botrychium*), Lincoln Constance (Apiaceae), Ted Barkley (*Senecio*), Almut Jones (*Aster*), Guy Nesom (*Erigeron*), Gerald Ownbey (*Cirsium* and *Argemone*), Reed Rollins (*Brassicaceae*), Arthur Cronquist (miscellaneous), Alfred Schuyler (aquatic plants), Gary Wallace (*Pyrola*), Rupert Barnaby (Fabaceae), Richard Halse (*Phacelia*), Duane Atwood (*Phacelia*), Douglass Henderson (*Sisyrinchium*), Paul Fryxell (Malvaceae), David Boufford (*Circaeae*), Alva Day (Polemoniaceae), Lauramae Dempster (*Galium*), Harlan Lewis (*Gayophytum*), Lawrence Heckard (*Castilleja*, *Cordylanthus*, *Orthocarpus*), Frederick Meyer (*Valeriana*), John T. Howell (*Carex* and miscellaneous), Margaret Williams (miscellaneous), Arnold Tiehm (miscellaneous), and Ken Genz (miscellaneous). I am especially grateful to John Thomas Howell, Margaret Williams and Arnold Tiehm for

sharing with me their intimate knowledge of the Intermountain and Sierran floras, and to the curators at NY and CAS for allowing access to their herbaria.

LITERATURE CITED

- BARNEBY, R. C. 1964. *Atlas of North American Astragalus*. New York Botanical Gardens. 2 Vols.
- BATEMAN, P. C. 1967. The Sierra Nevada Batholith. *Science* 158: 1407-1417.
- BELL, K., AND R. JOHNSON. 1980. Alpine flora of the Wassuk Range, Mineral County, Nevada. *Madroño* 27: 25-35.
- BILLINGS, W. D. 1951. Vegetation zonation in the Great Basin of western North America. Pages 101-122 in *Les Bases e regeneration do la des zones arides*. International Colloquium. Internat. Union of Bio. Sci. Ser. B.9.
- . 1978. Alpine phytogeography across the Great Basin. *Great Basin Nat. Mem.* 2: 105-117.
- CHABOT, B. F., AND W. D. BILLINGS. 1972. Origins and ecology of the Sierran alpine flora and vegetation. *Ecol. Monogr.* 42: 163-199.
- COX, B. J. 1972. Biosystematics of *Lupinus lepidus*-*L. caespitosus* complex. Unpublished dissertation. Univ. of Missouri, Columbia. 443 pp.
- CRONQUIST, A., A. HOLMGREN, N. HOLMGREN, AND J. REVEAL. 1972. *Intermountain flora*. Vol. 1. Hafner, New York. 584 pp.
- DAVIS, B. 1979. Draft: Plant list and keys. East Side Central Sierra and associated desert Ranges. U.S. Forest Service, Toiyabe National Forest, Reno, Nevada. 124 pp.
- DEMPSTER, L. T., AND F. EHRENDORFER. 1965. Evolution of the *Galium multiflorum* complex in western North America. II. Critical taxonomic revision. *Brittonia* 17: 289-334.
- GOODRICH, S. 1981. A floristic study of central Nevada. Unpublished thesis, Brigham Young Univ. 400 pp.
- HALSE, R. R. 1981. Taxonomy of *Phacelia* Sect. Miltitzia (Hydrophyllaceae). *Madroño* 28: 121-132.
- HARDHAM, C. B., AND G. H. TRUE. 1972. *Malacothrix torreyi* (Compositae) in California. *Madroño* 21: 535.
- HARPER, K. T., D. C. FREEMAN, W. K. OSTLER, AND L. C. KLIKOFF. 1978. The flora of the Great Basin mountain ranges: diversity, sources and dispersal ecology. *Great Basin Nat. Mem.* 2: 81-103.
- HINTON, W. F. 1975. Systematics of the *Calyptidium umbellatum* complex (Portulacaceae). *Brittonia* 27: 197-208.
- HITCHCOCK, C. L., AND B. MAGUIRE. 1947. A revision of the North American species of *Silene*. Univ. of Washington Pub. Biol. 13: 1-73.
- KARTESZ, J., AND R. KARTESZ. 1980. A synonymized checklist of the vascular flora of the United States, Canada and Greenland. Univ. of North Carolina Press. Chapel Hill. 500 pp.
- LAVIN, M. 1981. Floristics of the headwaters of the Walker River, California and Nevada. Unpublished thesis. Univ. of Nevada, Reno. 141 pp.
- MAJOR, J., AND D. W. TAYLOR. 1977. Alpine. Pages 601-675 in M. G. Barbour and J. Major, eds.,

- Terrestrial vegetation of California. John Wiley Interscience, New York.

MESSICK, T. 1982. The flora and phytogeography of the Bodie Hills of Mono County, CA and Mineral County, NV. Unpublished thesis, Humboldt State Univ.

MUNZ, P. A., AND D. KECK. 1968. A California flora. Univ. of California Press. Berkeley. 1681 pp. and supplement.

REVEAL, J. L. 1968. Notes of *Eriogonum*—IV. A revision of the *Eriogonum deflexum* complex. *Brittonia* 20: 13–33.

_____. 1979. Biogeography of the Intermountain Region. *Mentzelia* 4: 1–92.

REVEAL, J. L., AND B. ERTTER. 1980. Noteworthy collections. *Madroño* 27: 142.

ROLLINS, R. C. 1982. Studies on *Arabis* (Cruciferae) of Western North America II. *Contr. Gray Herbarium of Harvard*. No. 212:111–114.

RUNDEL, P. W., D. J. PARSONS, AND D. T. GORDON. 1977. Montane and subalpine vegetation of the Sierra Nevada and Cascade ranges. Pages 559–599 in M. G. Barbour and J. Major, eds., *Terrestrial vegetation of California*. John Wiley Interscience, New York.

SHARSMITH, C. W. 1940. A contribution to the history of the alpine flora of the Sierra Nevada. Unpublished dissertation. Univ. of California, Berkeley. 274 pp.

STROTHER, J. L. 1974. Taxonomy of *Tetradymia* (Compositae: Senecioideae). *Brittonia* 26: 177–202.

TAYLOR, D. W. 1976. Disjunction of Great Basin plants in the northern Sierra Nevada. *Madroño* 23: 301–310.

_____. 1977. Floristic relationships along the Cascade–Sierran axis. *Amer. Midl. Natur.* 97: 333–349.

THORNE, R. F. 1982. The desert and other transmontane plant communities of southern California. *Aliso* 10:219–257.

TABLE 1. Checklist of the vascular flora of the upper Walker River. For the columns under the heading of "AREA": N = Sierra Nevada; S = Sweetwater Mountains; W = Wellington Hills; M = Masonic Hills, Bodie Hills, Pine Grove Hills, and the southwest slopes of the Pine Nut Range. For the columns under the heading of "HABITAT": 1 = riparian; 2 = low elevation sagebrush-grass zone; 3 = pinyon-juniper woodland; 4 = high elevation sagebrush-grass zone; 5 = Jeffrey pine-white fir forests; 6 = red fir forests; 7 = lodgepole pine forests; 8 = whitebark pine forests; 9 = alpine zone (see Billings 1951, Lavin 1981, for a general description of these). An X indicates the plant has been observed in the field or by herbarium specimen; an O indicates the plant has a probable distribution within the area due to information obtained in the literature.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
ADIANTACEAE - PTERIDOPHYTA													
<i>Aspidotis</i>					X				X		X		
<i>densa</i> (Brack.) Lellinger													
<i>Cheilanthes</i>					X	X			X	X	X		
<i>gracillima</i> D.C. Eat.													
<i>Cryptogramma</i>													
<i>crispia</i> (L.) R. Br. ex Hook.					X								
ssp. <i>acrostichoides</i> (R. Br.) Hulten											O	X	X
<i>Pellaea</i>													
<i>breweri</i> D.C. Eat.			X	X	O				O	O	X	X	
<i>bridgesii</i> Hook.		X	X						X	X	X	X	
ASPLENIACEAE													
<i>Athyrium</i>													
<i>distentifolium</i> Tausch ex Opiz					X								X
var. <i>americanum</i> (Butters) Boivin													
<i>Cystopteris</i>													
<i>fragilis</i> (L.) Bernh.			X	X	X				X	X	X	X	X
<i>Woodsia</i>													
<i>oregana</i> D.C. Eat.				X					X				
<i>scopulina</i> D.C. Eat.		X	X							X	X	X	X
DENNSTAEDTIACEAE													
<i>Pteridium</i>													
<i>aquilinum</i> (L.) Kuhn					X				X	X	X		
var. <i>pubescens</i> Underwood													
EQUISETACEAE													
<i>Equisetum</i>													
<i>arvense</i> L.			X	X				X	X	X	X	X	O
<i>hyemale</i> L.													
var. <i>affine</i> (Engelm.) A.A. Eat.		X						X		X	X	X	
<i>laevigatum</i> A. Braun		X	X	X	X	X			X	X	X		

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
ISOETACEAE													
<i>Isoetes</i>					X			X			X	X	X
<i>bolanderi</i> Engelm.													
var. <i>bolanderi</i>													
MARSILEACEAE													
<i>Marsilea</i>					X			X			X		
<i>vestita</i> Hook. & Grev.													
OPHIOGLOSSACEAE													
<i>Botrychium</i>					O								
<i>lunaria</i> (L.) Sw.													
var. <i>minganense</i> (Victorin) Dole					X							O	
<i>simplex</i> E. Hitchcock													X
SELAGINELLACEAE													
<i>Selaginella</i>					X	X					X	X	X
<i>watsonii</i> Underwood													
CUPRESSACEAE - PINOPHYTA													
<i>Juniperus</i>					X						X	X	
<i>communis</i> L.													
<i>occidentalis</i> Hook.					X	X	X				X	X	X
ssp. <i>australis</i> Vasek					X	X	X				X	X	X
<i>osteosperma</i> (Torr.) Little											X	X	X
EPHEDRACEAE													
<i>Ephedra</i>					X	X	X				X	X	
<i>nevadensis</i> S. Wats.					X	X	X	X			X	X	X
<i>viridis</i> Coville											X	X	X
PINACEAE													
<i>Abies</i>					X	X			X	X	X	X	X
<i>concolor</i> (Gord. & Glend.) Hildebr.					X								
<i>magnifica</i> A. Murr.					X						X	X	X
<i>Pinus</i>					X	X							
<i>albicaulis</i> Engelm.												X	X
<i>contorta</i> Dougl. ex Loud.												X	X
var. <i>murrayana</i> (Grev. & Balf.) Engelm.					X	X	O				X	O	X
<i>flexilis</i> James					X	X	O				O		X
<i>jeffreyi</i> Grev. & Balf.					X	X	X	X			X	X	X
<i>monophylla</i> Torr. & Frem.					X	X	X	X			X	X	X
<i>monticola</i> Dougl. ex D. Don					X		X				X		X
<i>Tsuga</i>					X							X	X
<i>mertensiana</i> (Bong.) Carr.													X
ACERACEAE - ANTHOPHYTA													
<i>Acer</i>					X						X	X	X
<i>glabrum</i> Torr.													
var. <i>torreyi</i> (Greene) Smiley													
ALISMATACEAE													
<i>Sagittaria</i>					O		O		O				
<i>cuneata</i> Sheldon													
AMARANTHACEAE													
<i>Amaranthus</i>					X	X			X				
<i>albus</i> L.					X	X	X	X					
<i>blitoides</i> S. Wats.									X	X	X		
<i>retroflexus</i> L.							X	X				X	
APIACEAE													
<i>Angelica</i>					X				X		X	O	
<i>breweri</i> Gray					X	X		X			X	X	
<i>lineariloba</i> Gray											X	X	

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Berula</i>													
<i>erecta</i> (Huds.) Coville					X		X	X					
<i>Cicuta</i>													
<i>douglasii</i> (DC.) Coulter & Rose					X	X		X	X				
<i>Conium</i>													
<i>maculatum</i> L.					X	X			X	X			
<i>Cymopterus</i>													
<i>cinerarius</i> Gray					X	X							X X
<i>globosus</i> (S. Wats.) S. Wats.					X		X			X X			
<i>panamintensis</i> Coulter & Rose					O					?			
var. <i>panamintensis</i>													
<i>Heracleum</i>													
<i>lanatum</i> Michx.					X	X			X		X	X	
<i>Ligusticum</i>													
<i>grayii</i> Coulter & Rose					X						X X X X X		
<i>Lomatium</i>													
<i>dissectum</i> (Nutt.) M. & C.					X	X	X	X		X X X X			X
var. <i>multifidum</i> (Nutt.) M. & C.													
<i>foeniculaceum</i> (Nutt.) Coulter & Rose								X		X X			
ssp. <i>macdougalii</i> (Coulter & Rose) Theobald													
<i>nevadense</i> (S. Wats.) Coulter & Rose								X		X X			
var. <i>nevadense</i>					X	X	X	X		X X X X			X X
var. <i>parishii</i> (Coulter & Rose) Jepson					X	X	X	X		X X X X			
<i>plummerae</i> (Coulter & Rose) Coulter & Rose								X					
var. <i>sonnei</i> (Coulter & Rose) Jepson													
<i>Osmorhiza</i>													
<i>chilensis</i> Hook. & Arn.					X	X			X		X		X
<i>occidentalis</i> (Torr. & Gray) Torr.					X	X	X		X	X X X		X X	
<i>Perideridia</i>													
<i>bolanderi</i> (Gray) A. Nels. & J.F. Macbride					X	X	X	X		X X		X X X	
ssp. <i>bolanderi</i>													
<i>lemonii</i> (Coulter & Rose) Chuang & Const.					X	X	O			X X			
<i>parishii</i> (Coulter & Rose) A. Nels.													
ssp. <i>latifolia</i> (Gray) Chuang & Const.								X		O O X X			
<i>Podistera</i>									O				O
<i>nevadensis</i> (Gray) S. Wats.													
<i>Pteryxia</i>													
<i>terebinthina</i> (Hook.) Coulter & Rose													
var. <i>californica</i> (Coulter & Rose) Mathias						X	X	X	X		X X X		X
<i>Sphenosciadium</i>													
<i>capitellatum</i> Gray						X	X	X	X	X	X X X X X X		
APOCYNACEAE													
<i>Apocynum</i>													
<i>androsaemifolium</i> L.													
ssp. <i>pumilum</i> (Gray) Boivin					X	X					X X X		
<i>X medium</i> Greene					X		O			O X			
ASCLEPIADACEAE													
<i>Asclepias</i>													
<i>cryptoceras</i> S. Wats.													
ssp. <i>cryptoceras</i>									O		O		
ssp. <i>davisii</i> (Woods.) Woods.						X	X	X			X X		
<i>fascicularis</i> Dcne.					X	X					X X		
<i>speciosa</i> Torr.					X	X	X	X		X X X			
ASTERACEAE													
<i>Achillea</i>													
<i>millefolium</i> L.													
var. <i>alpicola</i> (Rydb.) Garrett					X	X	X	X			X X X		X X X
var. <i>lanulosa</i> (Nutt.) Piper					X	X	X	X	X	X	X X		

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Agoseris</i>													
<i>aurantiaca</i> (Hook.) Greene	X	X			X				X	X		X	X
<i>elata</i> (Nutt.) Greene	X	X		X	X				X	X	X	X	X
<i>glauca</i> (Pursh) Raf.													
var. <i>monticola</i> (Greene) Cronquist	X	X										X	X
var. <i>laciiniata</i> (D.C. Eat.) Smiley	X	X	X	X			X	X	X	X			
<i>Ambrosia</i>													
<i>acanthicarpa</i> Hook.	X	X	X	X			X	X					
<i>Anisocoma</i>													
<i>acaulis</i> Torr. & Gray					X						X		
<i>Antennaria</i>													
<i>alpina</i> (L.) Gaertn.	X	X										X	X
var. <i>media</i> (Greene) Jepson	X	X											
<i>dimorpha</i> (Nutt.) Torr. & Gray	X	X	X	X		X	X		X	O			
<i>microphylla</i> Rydb.	X	X	X			X	X		X	X	X	X	X
<i>umbrinella</i> Rydb.	X	X									X	X	
<i>Arnica</i>													
<i>chamissonis</i> Less.													
ssp. <i>foliosa</i> (Nutt.) Maguire	X	X	X			X	X		X	X	X	X	X
var. <i>andina</i> (Nutt.) Ediger & Barkley													
ssp. <i>foliosa</i> (Nutt.) Maguire	X	X				X	X		X	X	X	X	X
var. <i>incana</i> (Gray) Hulten	X	X											
<i>cordifolia</i> Hook.	X	X										X	
var. <i>cordifolia</i>													
<i>diversifolia</i> Greene	X	X									X		
<i>longifolia</i> D.C. Eat.	X	X								X	X	X	X
<i>mollis</i> Hook.	X	X								X	X	X	
<i>nevadensis</i> Gray	X	X										X	X
<i>parryi</i> Gray													
var. <i>sonnei</i> (Greene) Cronquist	O										O	O	
<i>sororia</i> Greene	X	X	O			X	X	X					
<i>Artemisia</i>													
<i>arbuscula</i> Nutt.	X	X	X	X			X	X	X		X	X	X
<i>cana</i> Pursh	X	X				X	X	X			X	X	X
<i>douglasiana</i> Bess.	X	X	X	X			X	X					
<i>dracunculus</i> L.	X	X	X	X			X	X	X	X			X
<i>ludoviciana</i> Nutt.													
ssp. <i>incompta</i> (Nutt.) Keck	X	X		X		X	X	X	X		X	X	X
ssp. <i>ludoviciana</i>	X	X							X	X			
<i>norvegica</i> Fries													
var. <i>saxitalis</i> (Bess.) Hook.	X										X	X	X
<i>nova</i> A. Nels.		X	X	X			X	X					
<i>rothrockii</i> Gray	X	X										X	X
<i>spinescens</i> D.C. Eat.						X	O			X			
<i>tridentata</i> Nutt.													
ssp. <i>vaseyanana</i> (Rydb.) Beetle	X	X	X	X				X	X		X	X	
ssp. <i>wyomingensis</i> Beetle & Young		X	X	X				X	X				
ssp. <i>tridentata</i>	X	X	X	X			X	X	X	X		X	X
<i>Aster</i>													
<i>ascendens</i> Lindl. in Hook.	X	X	O			X		X					
<i>alpinus</i> (Torr. & Gray) Gray													
ssp. <i>andersonii</i> (Gray) Onno	X	X						X			X	X	X
<i>campestris</i> Nutt.													
var. <i>bloomeri</i> Gray	X	X	O						O	X			
<i>eatonii</i> (Gray) T.J. Howell	X	X				X	X	X	X				
<i>integrifolius</i> Nutt.	X					X					X	X	X
<i>occidentalis</i> (Nutt.) Torr. & Gray													
var. <i>occidentalis</i>	X	X	X	X		X	X	X	X	X	X	X	X
<i>scopulorum</i> Gray		X	X	X		X	X	X	X	X			

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Balsamorhiza</i>													
<i>hookeri</i> (Hook.) Nutt.			X	X	X			X	X		X		
<i>sagittata</i> (Pursh) Nutt.	X	X	X	X			X	X		X		X	
<i>Bidens</i>													
<i>cernua</i> L.					X			X		X			
<i>Brickellia</i>													
<i>grandiflora</i> (Hook.) Nutt.					X								X
var. <i>petiolaris</i> Gray						X	X						
<i>microphylla</i> (Nutt.) Gray							X	X					
<i>oblongifolia</i> Nutt.								X					
var. <i>linifolia</i> (D.C. Eat.) B.L. Robins.					X	X	X		X	X			
<i>Chaenactis</i>													
<i>alpigena</i> C.W. Sharsmith					X							X	X
<i>douglasii</i> (Hook.) Hook. & Arn.													
var. <i>rubricaulis</i> (Rydb.) Ferris	X	X	X	X				X	X	X	X	X	
<i>nevadensis</i> (Kellogg) Gray	X	X											X
<i>xantiana</i> Gray					X			X					
<i>Chrysanthamus</i>													
<i>nauseosus</i> (Pall.) Britton													
ssp. <i>consimilis</i> (Greene) Hall & Clem.	X	X	X	X				X	X	X			
ssp. <i>albicaulis</i> (Nutt.) Hall & Clem.	X	X		X				X		X		X	
ssp. <i>hololeucus</i> (Gray) Hall & Clem.			O					O	O				
<i>parryi</i> (Gray) Greene													
ssp. <i>monocephalus</i> (Nels. & Kenn.) Hall & Clem.	X	X										X	X
ssp. <i>nevadensis</i> (Gray) Hall & Clem.		X		O						X			
<i>viscidiflorus</i> (Hook.) Nutt.													
ssp. <i>puberulus</i> (D.C. Eat.) Hall & Clem.	X	X	X	X				X	X	X	X	X	
ssp. <i>viscidiflorus</i>	X	X	X	X				X	X	X			
<i>Cichorium</i>													
<i>intybus</i> L.					X	X			X	X	X		
<i>Cirsium</i>													
<i>andersonii</i> (Gray) Petrak			X	X				X		X		X	X
<i>congdonii</i> Moore & Frankton			X	X						X			
<i>eatonii</i> (Gray) B.L. Robins.			X									X	X
<i>pastoris</i> J.T. Howell			X	X	X	X			X		X		
<i>tiognum</i> (Congd.) Petrak			X	X	X	X	X		X	X	X	X	X
<i>utahense</i> Petrak			X	X	O			X		X			X
<i>vulgare</i> (Savi) Tenore			X	X	X	X			X		X		
<i>Conyza</i>													
<i>canadensis</i> (L.) Cronquist					X	X	X	X	X	X	X		
var. <i>glabrata</i> (Gray) Cronquist													
<i>Crepis</i>													
<i>acuminata</i> Nutt.					X	X	O			X	X	X	X
ssp. <i>acuminata</i>						X	X	X		X	X		
<i>intermedia</i> Gray						X	X	X	X		X	X	X
<i>modocensis</i> Greene													
ssp. <i>subacaulis</i> (Kell.) Babcock & Stebbins	X	X	O						O			X	X
<i>nana</i> Richards.													
ssp. <i>ramosa</i> Babcock & Stebbins			X									X	X
ssp. <i>nana</i>			X	X								X	X
<i>occidentalis</i> Nutt.													
ssp. <i>pumila</i> (Rydb.) Babcock & Stebbins	X	X	X	X				X	X	X			X
ssp. <i>occidentalis</i>	X	X	X	X				X	X	X	X		
ssp. <i>conjuncta</i> (Jepson) Babcock & Stebbins	X	X	X	X				X	X	X	X		X
<i>runcinata</i> (James) Torr. & Gray													
ssp. <i>hallii</i> Babcock & Stebbins					X			X	X	X			
<i>Dugaldia</i>													
<i>hoopesii</i> (Gray) Rydb.	X	X	O		X			X	X	X	X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Eatonella</i>													
<i>nivea</i> (D.C. Eat.) Gray			X	X		X			X	X			
<i>Erigeron</i>													
<i>aphanactis</i> (Gray) Greene					X	X	X	X		X	X	X	
var. <i>aphanactis</i>												O	X
<i>barbellulatus</i> Greene			X									X	X
<i>bloomeri</i> Gray					X	X	X		X	X			
var. <i>bloomeri</i>													
<i>breweri</i> Gray					X								
var. <i>breweri</i>									X			X	
var. <i>porphyreticus</i> (M.E. Jones) Cronquist			X	X	X	X			X	X	X		X
<i>clokeyi</i> Cronquist			X	X	X				X	X	X	X	X
<i>compositus</i> Pursh													
var. <i>glabratus</i> Macoun			X	X	X				X	X		X	X
<i>coulteri</i> Porter			X	X	O		X			X		X	X
<i>divergens</i> Torr. & Gray			X	X					X			X	X
<i>eatonii</i> Gray													
ssp. <i>plantagineus</i> (Greene) Cronquist			X	X	X	X		X	X	X	X		X
<i>lonchophyllum</i> Hook.			X	X	X	O		X	X	X		O	O
<i>nevadincola</i> Blake			X	X	X	X			X				X
<i>peregrinus</i> (Pursh) Greene													
ssp. <i>callianthemus</i> (Greene) Cronquist			X	X	O		X					X	X
var. <i>angustifolius</i> (Gray) Cronquist													
ssp. <i>callianthemus</i> (Greene) Cronquist			X				X					X	X
var. <i>hirsutus</i> Cronquist			X										
<i>petiolaris</i> Greene			X	X									X
<i>pygmaeus</i> (Gray) Greene			X	X									X
<i>tener</i> (Gray) Gray							X				X		
<i>vagus</i> Payson					X								X
<i>Eriophyllum</i>													
<i>lanatum</i> (Pursh) Forbes													
var. <i>integrifolium</i> (Hook.) Smiley			X	X	X	X			X	X	X	X	X
<i>Eupatorium</i>													
<i>occidentale</i> Hook.			X	X	X	X			X	X	X	X	X
<i>Glyptopleura</i>													
<i>marginata</i> D.C. Eat.						X			X	X			
<i>Gnaphalium</i>													
<i>palustre</i> Nutt.			X	X			X			X	X		X
<i>microcephalum</i> Nutt.													
var. <i>thermale</i> (E. Nels.) Cronquist						X			X				
<i>Grindelia</i>													
<i>squarrosa</i> (Pursh) Dunal					X	X	X		X	X			
var. <i>squarrosa</i>													
<i>Gutierrezia</i>													
<i>sarothrae</i> (Pursh) Britt. & Rusby						X				X			
<i>Haplopappus</i>													
<i>acaulis</i> (Nutt.) Gray			X	X	X	X			X	X	X		X
<i>apargioides</i> Gray			X	X	O				O		X	X	X
<i>bloomeri</i> (Hook.) Gray			X	X									X
<i>lanceolatus</i> (Hook.) Torr. & Gray													
var. <i>lanceolatus</i>			X	X			X			X	X		
<i>macronema</i> Gray			X	X									X
<i>racemosus</i> (Nutt.) Torr.													
ssp. <i>glomeratus</i> (Nutt.) Hall						O			O				
<i>suffruticosus</i> (Nutt.) Gray			X	X	O				O		X	X	X
<i>uniflorus</i> (Hook.) Torr. & Gray													
ssp. <i>uniflorus</i>			X	X			X	X	X				

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Helianthus</i>													
<i>annuus</i> L.	X	X							X	X			
<i>Heterotheca</i>													
<i>breweri</i> AGray) Shinners	X										X	X	X
<i>Hieracium</i>													
<i>albiflorum</i> Hook.	X							X			X	O	X
<i>gracile</i> Hook.												X	X
var. <i>gracile</i>	X											X	X
<i>horridum</i> Fries	X	X									X	X	X
<i>Hulsea</i>													
<i>algida</i> Gray	X	X		O									
<i>heterochroma</i> Gray	O										O		
<i>Hymenopappus</i>													
<i>filifolius</i> Hook.													
var. <i>nanus</i> (Rydb.) B.L. Turner	X	X	X					X	X				
<i>Hymenoxytis</i>													
<i>cooperi</i> (Gray) Cockerell	X	X											
var. <i>canescens</i> (D.C. Eat.) Parker												X	X
<i>Iva</i>													
<i>axillaris</i> Pursh	X	X	X	X					X	X	X		
<i>Lactuca</i>													
<i>serriola</i> L.	X	X	X	X				X	X	X			
<i>tatarica</i> (L.) C.A. May													
ssp. <i>pulchella</i> (Pursh) Stebbins	X										X		
<i>Layia</i>													
<i>glandulosa</i> (Hook.) Hook. & Arn.	X	X	X	X				X	X	X			
ssp. <i>glandulosa</i>													
<i>Leucanthemum</i>													
<i>vulgare</i> Lam.	X	X						X	X	X			
<i>Machaeranthera</i>													
<i>canescens</i> (Pursh) Gray								X	X				
<i>shastensis</i> Gray											X		
var. <i>montana</i> (Greene) Cronquist & Keck	X	X										X	X
var. <i>gossophylla</i> (Piper) Cronquist & Keck	X	X		X							X	O	X
<i>Madia</i>													
<i>glomerata</i> Hook.	X	X											X
<i>gracilis</i> (Sm.) Keck								X			X		
<i>Malacothrix</i>													
<i>sonchoides</i> (Nutt.) Torr. & Gray													
var. <i>torreyi</i> (Gray) E. Williams								X			X		
<i>Microseris</i>													
<i>lindleyi</i> (DC.) Gray								X	X				
<i>Nothocalais</i>								O					
<i>alpestris</i> (Gray) Chambers												O	O
<i>Psilocarphus</i>													
<i>brevisimus</i> Nutt.													
var. <i>brevisimus</i>								X			X		
<i>Raillardella</i>													
<i>argentea</i> (Gray) Gray	X	X										X	X
<i>scaposa</i> (Gray) Gray	X											X	
<i>Senecio</i>													
<i>canus</i> Hook.	X	X	X	X							X	X	X
<i>cymbalariaeoides</i> Beuk	X											X	X
<i>fremontii</i> Torr. & Gray													
var. <i>occidentalis</i> Gray	X	X										X	X
<i>hydropophilus</i> Nutt.	X	X	O					X	X				X
<i>integerrimus</i> Nutt.													
var. <i>exaltatus</i> (Nutt.) Cronquist	X	X	X	X				X	X	X	X	X	X
<i>multilobatus</i> Torr. & Gray ex Gray	X	X	X	X				X	X	X	X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>pattersonensis</i> Hoover	X	X										X	X
<i>scorzonella</i> Greene	X	X										X	X
<i>serra</i> Hook. var. <i>serra</i>		X	X	O	X	X		X	X	X	X	X	X
<i>spartioides</i> Torr. & Gray	X	X									X	X	X
<i>streptanthifolius</i> Greene	X										X	X	X
<i>triangularis</i> Hook.	X	X		X	X						X	X	X
<i>wernerifolius</i> (Gray) Gray	X	X										X	X
<i>Solidago</i>													
<i>canadensis</i> L. var. <i>salebrosa</i> (Piper) M.E. Jones	X										X		
<i>multiradiata</i> Ait.	X	X										X	X
<i>occidentalis</i> (Nutt.) Torr. & Gray			X	X		X	X						
<i>spectabilis</i> (D.C. Eat.) Gray			X	O	X		X						
<i>Sonchus</i>													
<i>asper</i> (L.) Hill	X	X	X	X	X	X	X	X	X	X			
<i>Sphaeromeria</i>													
<i>cana</i> (D.C. Eat.) Heller	X	X										X	X
<i>potentilloides</i> (Gray) Heller var. <i>potentilloides</i>					X								
<i>Stephanomeria</i>													
<i>exigua</i> Nutt. ssp. <i>coronaria</i> (Greene) Gottlieb	X	X		O								X	X
ssp. <i>exigua</i>	X	X	X	X		X	X	X					
<i>spinosa</i> (Nutt.) S. Tomb	X	X	X	X		X	X	X	X	X			
<i>Taraxacum</i>													
<i>officinale</i> Weber	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Tetradymia</i>													
<i>axillaris</i> A. Nels. var. <i>longispina</i> (M.E. Jones) Strother			X		X			X					
<i>canescens</i> DC.	X	X	X	O		X	X	X	X		X	X	X
<i>glabrata</i> Torr. & Gray	X	X	X	X		X	X	X					
<i>spinosa</i> Hook. & Arn.			X	X		X	X						
<i>tetrameris</i> (Blake) Strother				O	O								
<i>Townsendia</i>													
<i>condensata</i> Parry ex Gray	X												X
<i>scapigera</i> D.C. Eat.	X		O				X				X	X	X
<i>Tragopogon</i>													
<i>dubius</i> Scop.	X	X	X	X	X	X	X	X	X	X			
<i>Wyethia</i>													
<i>mollis</i> Gray	X	X	X	X				X	X	X	X	X	X
BETULACEAE													
<i>Alnus</i>													
<i>incana</i> (L.) Moench													
ssp. <i>tenuifolia</i> (Nutt.) Breitung					X			X			X		
BORAGINACEAE													
<i>Amsinckia</i>													
<i>tessellata</i> Gray					X	X	X		X	X			
<i>Cryptantha</i>													
<i>affinis</i> (Gray) Greene	X	X							X	X	O	O	
<i>circumscissa</i> (Hook. & Arn.) Johnston			X	X	X	X		X	X	X			
var. <i>hispida</i> (J.F. Macbr.) Johnston	X	X	X	X				X	X	X			X
var. <i>circumscissa</i>	X	X	X	X				X	X	X			X
<i>confertiflora</i> (Greene) Payson			X	X	X			X	X				
<i>echinella</i> Greene			X	X	X				X	X	X		X
<i>flavoculata</i> (A. Nels.) Payson			X	X	X	X		X	X	X	X		X
<i>glomeriflora</i> Greene			X	X	X			X	X	X			
<i>humilis</i> (Gray) Payson			X	X	X			X	X	X	X		X
var. <i>humilis</i>			X	X	X				X	X			

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>jamesii</i> (Torr.) Payson				X								X	
var. <i>abortiva</i> (Greene) Payson		X	X										X X
<i>nubigena</i> (Greene) Payson													
<i>pterocarya</i> (Torr.) Greene					X X X X			X X X X					
var. <i>pterocarya</i>													
<i>torreyana</i> (Gray) Greene		X X	O								X X		
var. <i>torreyana</i>													
var. <i>pumila</i> (Heller) Johnston			X X					X					
<i>watsonii</i> (Gray) Greene		X X	X X			X X X X				X X		X X	
sp. nov.		X X	X										X
<i>Hackelia</i>													
<i>floribunda</i> (Lehm.) Johnston				O			O						
<i>micrantha</i> (Eastw.) J.L. Gentry		X X	O		X	X X X			X X X		X X		
<i>Lappula</i>													
<i>redowskii</i> (Hornem.) Greene					X X X X			X X X			X X		
var. <i>redowskii</i>													
<i>Mertensia</i>													
<i>oblongifolia</i> (Nutt.) G. Don													
var. <i>nevadensis</i> (A. Nels.) L.O. Williams		X X	X X					X X X		X X X		X X X	
<i>Pectocarya</i>													
<i>setosa</i> Gray					X X X			X X					
<i>Plagiobothrys</i>													
<i>hispidus</i> Gray		X X	X X					X X X X		X X X		X X	
<i>jonesii</i> Gray			X X X						X X				
<i>kingii</i> (S. Wats.) Gray		X X	X X					X X X X		X			X
var. <i>harknessii</i> (Greene) Jepson			X X X						X X				
var. <i>kingii</i>				X X X									
<i>scouleri</i> (Hook. & Arn.) Johnston		X X	X X					X X X X		X X X		X	
var. <i>scouleri</i>													
<i>Tiquilia</i>													
<i>nuttallii</i> (Benth. ex Hook.) Richards.					X			X					
BRASSICACEAE													
<i>Anelsonia</i>													
<i>eurycarpa</i> (Gray) Macbr. & Payson					X X								X
<i>Arabis</i>													
<i>bodiensis</i> Rollins		X X	X					X X		X X		X X	
<i>cobreensis</i> M.E. Jones			X X X						X X X				
<i>davidsonii</i> Greene		X				X				X			
<i>divaricarpa</i> A. Nels.		X X X						X X X		X X X		X X X	
<i>drummondii</i> Gray		X X	O						O X		X		
<i>fernaldiana</i> Rollins													
var. <i>stylosa</i> (S. Wats.) Rollins				X				X		X			
<i>glabra</i> (L.) Bernh.		X X				X			X	X		X	
<i>hirsuta</i> (L.) Scop.													
var. <i>glabrata</i> Torr. & Gray		X X								X X X			
<i>holboellii</i> Hornem.													
var. <i>pendulocarpa</i> (A. Nels.) Rollins		X X										X X X	
var. <i>pinetorum</i> (Tidestrom) Rollins		X X X X						X X X		X X X		X	
var. <i>retrofracta</i> (Graham) Rydb.		X X X X						X X X		X X X		X	
var. <i>holboellii</i>					X								
<i>inyoensis</i> Rollins		X X										X X	
<i>lemonii</i> S. Wats.													
var. <i>lemonii</i>		X X										X X	
var. <i>depauperata</i> (A. Nels. & Kenn.) Rollins		O										O	
<i>lyallii</i> S. Wats.													
var. <i>lyallii</i>		X X	O									X	
<i>platysperma</i> Gray													
var. <i>platysperma</i>		X X	X					X X		X X X		X X X	
var. <i>howellii</i> (S. Wats.) Jepson		X X							X X		X X X		X X X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>puberula</i> Nutt.	X	X	X	X		X	X	X	X		X		
<i>pulchra</i> M.E. Jones ex S. Wats.		X	X	X	X		X		X		X		
var. <i>pulchra</i>		X	X	X	X				X		X		
var. <i>gracilis</i> M.E. Jones			X	X		X	X						
<i>sparsiflora</i> Nutt.													
var. <i>subvillosa</i> (S. Wats.) Rollins	X	X	X	X				X	X	X		X	
var. <i>sparsiflora</i>	X	X	X	X				X	X	X		X	
<i>Barbarea</i>													
<i>orthoceras</i> Ledeb.		X	X	X	X	X		X	X	X	X	X	
var. <i>dolichocarpa</i> Fern.	X	X	X	X	X		X	X	X	X			
var. <i>orthoceras</i>	X	X	X	X	X		X	X	X	X	X	X	X
<i>Capsella</i>													
<i>bursa-pastoris</i> (L.) Medic.	X	X	X	X				X	X	X			
<i>Cardamine</i>													
<i>breweri</i> S. Wats.		X	X	X	X	X		X	X	X	X	X	X
var. <i>breweri</i>		X	X	X	X	X		X	X	X	X	X	X
<i>Cardaria</i>													
<i>pubescens</i> (C.A. Mey) Jarmolenko			O										
<i>Caulanthus</i>													
<i>pilosus</i> S. Wats.					X			X					
<i>Descurainia</i>													
<i>californica</i> (Gray) O.E. Schulz	X	X	X	X			X		X	X	X	X	
<i>pinnata</i> (Walt.) Britt.		X	X	X	X		X	X	X	X	X	X	
ssp. <i>filipes</i> (Gray) Detling	X	X	X	X			X	X	X	X	X		
ssp. <i>halictorum</i> (Cockerell) Detling			X				X						
ssp. <i>menziesii</i> (DC.) Detling	X	X	X	X			X	X	X	X			
<i>richardsonii</i> (Sweet) O.E. Schulz					O			O					
ssp. <i>incisa</i> (Engelm.) Detling	X	X			X			O					
ssp. <i>viscosa</i> (Rydb.) Detling	X	X	X	X	X	X	X	O	O	O	X	X	
<i>sophia</i> (L.) Webb ex Prantl	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Draba</i>													
<i>albertina</i> Greene	X	X	O		X				X	X	X		
<i>breweri</i> S. Wats.	X	X	O							X	X	X	
<i>densifolia</i> Nutt.	X	X	X	X			X	X	X	X	X	X	
<i>douglasii</i> Gray													
var. <i>crockeri</i> (Lemmon) C.L. Hitchc.					X			X	X				
<i>lemonii</i> S. Wats.		X											
var. <i>lemonii</i>	X											X	X
var. <i>incrassata</i> Rollins			X									X	X
<i>oligosperma</i> Hook.													
var. <i>subsessilis</i> (S. Wats.) O.E. Schulz	X	X										X	
var. <i>oligosperma</i>	X	X										X	X
<i>paysonii</i> J.F. Macbride	O											O	O
<i>quadricostata</i> Rollins			X	X	X			X	X				
<i>stenoloba</i> Ledeb.													
var. <i>ramosa</i> C.L. Hitchcock	X	X					X					X	X
<i>Erysimum</i>													
<i>argillosum</i> (Greene) Rydb.			O										
<i>capitatum</i> (Dougl.) Greene	X	X	X	X			X	X	X		X		
<i>perenne</i> (S. Wats. ex Coville) Abrams	X	X	X				X				X	X	X
<i>repandum</i> L.			X	X			X	X					
<i>Hymenolobus</i>													
<i>procumbens</i> (L.) Nutt. ex Torr. & Gray					X			X					
<i>Lepidium</i>													
<i>lasiocarpum</i> Nutt.					X			X	X				
<i>perfoliatum</i> L.	X	X	X	X			X	X	X	X			
<i>virginicum</i> L.													
var. <i>pubescens</i> (Greene) C.L. Hitchc.	X	X	X	X			X	X	X	X			

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Lesquerella</i>													
<i>kingii</i> S. Wats.					X	X	X	X		X	X	X	X
var. <i>kingii</i>													
<i>Nasturtium</i>					X	X	X	X	X	X	X		
<i>officinale</i> R. Br.													
<i>Phoenicaulis</i>					X	X	X	X		X	X	X	X
<i>cheiranthoides</i> Nutt.													
<i>Polyctenium</i>													
<i>fremontii</i> (S. Wats.) Greene								X			X		
<i>Rorippa</i>													
<i>curvisiliqua</i> (Hook.) Bess. ex Britton					X	X			X			X	X
<i>teres</i> (Michx.) R. Stuckey					X	X	X	X	X	X	X	X	
<i>Sisymbrium</i>													
<i>altissimum</i> L.					X	X	X	X		X	X	X	
<i>Stanleya</i>													
<i>pinnata</i> (Pursh) Britton					X	X	X			X	X		
var. <i>pinnata</i>													
<i>Streptanthus</i>					O				O	O			
<i>cordatus</i> Nutt. ex Torr. & Gray					X	X		X	X	X			
<i>oliganthus</i> Rollins													
<i>tortuosus</i> Kellogg													
var. <i>orbiculatus</i> (Greene) Hall					X						X	X	X
<i>Thelypodium</i>													
<i>crispum</i> Greene ex Payson					X	X	X	X	X	X	X	X	
<i>integrifolium</i> (Nutt.) Endl.													
ssp. <i>complanatum</i> Al-Shehbaz					X	X		X	X	X			
<i>laciniatum</i> (Hook.) Endl.						X			X				
CACTACEAE													
<i>Opuntia</i>													
<i>polyacantha</i> Haw.					X	X	X	X	X	X	X	X	X
var. <i>rufispina</i> (Engelm. & Bigelow) Benson						X	X						
<i>pusilla</i> Engelm.									X				
CALLITRICHACEAE													
<i>Callitricha</i>													
<i>heterophylla</i> Pursh emend. Darby									O		O		
var. <i>bolanderi</i> (Hegelm.) Fassett.					X	X		X	X	X	X		
<i>verna</i> L. emend. Kuetz.													
CAMPANULACEAE													
<i>Nemacladus</i>													
<i>rigidus</i> Curran								X	X		X	X	
PORTERELLA													
<i>carnosula</i> (Hook. & Arn.) Torr.					X				X		X	O	O
CAPPARIDACEAE													
<i>Cleomella</i>													
<i>hillmanii</i> A. Nels.								X		X			
<i>parviflora</i> Gray								X		X			
CAPRIFOLIACEAE													
<i>Lonicera</i>													
<i>involucrata</i> (Rich.) Banks ex Spreng.					X				X		X	X	X
<i>Sambucus</i>													
<i>caerulea</i> Raf.					X	X	X	X		X	X	X	X
<i>racemosa</i> L.													
ssp. <i>pubens</i> (Michx.) House													
var. <i>microbotrys</i> (Rydb.) Kearney & Peebles					X	X					O	X	X
<i>Symporicarpos</i>													
<i>longiflorus</i> Gray								X	X	X		X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>oreophilus</i> Gray													
var. <i>oreophilus</i>	X	X	X	X				X	X	X		X	X
<i>parishii</i> Rydb.					O			O					
CARYOPHYLLACEAE													
<i>Arenaria</i>													
<i>aculeata</i> S. Wats.					X	X	X	X			X	X	X
<i>Cerastium</i>													
<i>alpinum</i> L.					X	X		X				X	X
<i>vulgatum</i> L.					X	X		X	X		X		
<i>Minuartia</i>													
<i>nuttallii</i> (Pax) Briq.								X		X	X		
ssp. <i>fragilis</i> (Maguire & Holmgren) McNeill												X	X
ssp. <i>gracilis</i> (B.L. Robins.) McNeill					X	X						X	X
<i>obtusiloba</i> (Rydb.) House					O							O	
<i>rossii</i> (R. Br.) Graebn.					O	X						X	
<i>rubella</i> (Wahlenb.) Hiern					X	X						X	
<i>Pseudostellaria</i>													
<i>jamesiana</i> (Torr.) Weber & Hartman					X	X		X		X	X		
<i>Sagina</i>													
<i>saginoides</i> (L.) Karst.					X	X	O	X		O	X		X
<i>Saponaria</i>													
<i>officinalis</i> L.					X	X				X	X		
<i>Silene</i>													
<i>bernardina</i> S. Wats.													
ssp. <i>maguirei</i> Bocquet													
var. <i>maguirei</i>					O				O				
ssp. <i>bernardina</i>					X	X	O		O			X	X
<i>menziesii</i> Hook.													
ssp. <i>dorrii</i> (Kellogg) C.L. Hitchc. & Maguire					X		O		O	X		X	
<i>nuda</i> (S. Wats.) C.L. Hitchc. & Maguire													
ssp. <i>insectivora</i> (Henders.) C.L. Hitchc. & Maguire					O			O	O				
<i>sargentii</i> S. Wats.					X	X	X					X	X
<i>Stellaria</i>													
<i>crispa</i> Cham. & Schlecht.					X	X		X		X	X	X	X
<i>longipes</i> Goldie					X	X	X	X	X	X	X	X	X
<i>umbellata</i> Turcz. ex Kar. & Kir.					X			X			X	X	X
CHENOPodiaceae													
<i>Atriplex</i>													
<i>argentea</i> Nutt.								X		X			
ssp. <i>argentea</i>													
<i>canescens</i> (Pursh) Nutt.								X	X		X	X	
ssp. <i>canescens</i>								X		X			
<i>confertifolia</i> (Torr. & Frem.) S. Wats.								X					
<i>heterosperma</i> Bunge								X		X	X		
<i>patula</i> L.													
ssp. <i>hastata</i> (L.) H. & S.								X	X	X		X	X
<i>rosea</i> L.								X	X		X	X	
<i>Bassia</i>													
<i>hyssopifolia</i> (Pallas) Kuntze								X		X	X		
<i>Ceratoides</i>													
<i>lanata</i> (Pursh) J.T. Howell								X	X	X			
var. <i>lanata</i>													
<i>Chenopodium</i>													
<i>album</i> L.								X	X	X	X		X
<i>atrovirens</i> Rydb.								X	X	O	X	X	
<i>botrys</i> L.								X	X	X		X	
<i>desiccatum</i> A. Nels.													
var. <i>leptophylloides</i> (J. Murr) H.A. Wahl.								X	X			X	X
var. <i>desiccatum</i>								X	X		X	O	O

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>fremontii</i> S. Wats.				X			X						
<i>leptophyllum</i> (Moq.) Nutt. ex S. Wats.	O		O		O	O	O	O					
<i>overi</i> Aellen	X	X									X	X	
<i>Grayia</i>													
<i>spinosa</i> (Hook.) Moq.		X	X	X	X			X	X	X	X		X
<i>Halothamnus</i>								X		X			
<i>glomeratus</i> (Stephan ex Bieb) C.A. Mey.													
<i>Kochia</i>													
<i>scoparia</i> (L.) Schrad.					X	X			X	X			
<i>Monolepis</i>													
<i>nuttalliana</i> (Roem. & Schult.) Greene	X	X	X	X				X	X	X		X	X
<i>spathulata</i> Gray	O		O					O	O	O			
<i>Salsola</i>													
<i>iberica</i> Sennen & Pau		X	X	X	X				X	X			
<i>Sarcobatus</i>													
<i>vermiculatus</i> (Hook.) Torr.					X	X	X		X	X	X		
var. <i>vermiculatus</i>													
<i>Sueda</i>								X			X		
<i>occidentalis</i> S. Wats.													
CLUSIACEAE													
<i>Hypericum</i>													
<i>formosum</i> H.B.K.					X	X			X	X	X		
ssp. <i>scouleri</i> (Hook.) C.L. Hitchc.													
CONVOLVULACEAE													
<i>Calystegia</i>													
<i>polymorpha</i> (Greene) Munz		X	X								X		
<i>Convolvulus</i>													
<i>arvensis</i> L.			X	X	X						X		
CORNACEAE													
<i>Cornus</i>													
<i>sericea</i> L.			X	X	O	X	X	X	X	X	X		
ssp. <i>sericea</i>													
CRASSULACEAE													
<i>Sedum</i>													
<i>integerrifolium</i> Coulter & A. Nels.	X											X	X
<i>lanceolatum</i> (Nutt.) Britton & Rose	X	X									O	X	X
<i>obtusatum</i> Gray	X										X	X	X
CROSSOSOMATACEAE													
<i>Forsellesia</i>													
<i>nevadensis</i> (Gray) Greene					X						X		
CUSCUTACEAE													
<i>Cuscuta</i>													
<i>suksdorffii</i> Yunker					O						O		
var. <i>subpedicellata</i> Yunker													
CYPERACEAE													
<i>Carex</i>													
<i>abrupta</i> Mackenzie	X	X									X	X	
<i>aquatilis</i> Wahlenb.	X	X			X		X				X		O
<i>athrostachya</i> Olney	X	X	X		X	X		X	X	O	X	O	
<i>aurea</i> Nutt.	X	X			X		X	X	X	X	X	X	
<i>brevipes</i> W. Boott.	O	O	O		O	O	O	O	O				
<i>canescens</i> L.	O		O		O						O	O	O
<i>capitata</i> L.	X	X									O	O	X
<i>congdonii</i> Bailey	X	X			X						X		X
<i>disperma</i> Dewey	X	X	X					X	X	X	X		
<i>douglasii</i> Boott	X	X	X	X				X	X	X	X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>exserta</i> Mackenzie	X	X		X				X	X	X	X	X	X
<i>festivella</i> Mackenzie	X	X				X	X	X	X	X			
<i>fissuricola</i> Mackenzie	O									O			
<i>haydeniana</i> Olney	O										O	O	
<i>helleri</i> Mackenzie	X	X		O							X	X	
<i>heteroneura</i> W. Boott													
var. <i>epapillosa</i> (Mackenzie) F.J. Herm.	O	O									O	O	O
var. <i>heteroneura</i>	X	X			X			X		X	X	X	
<i>hoodii</i> Boott	X	X			X			X		X	X	X	
<i>jepsonii</i> J.T. Howell	X				X			X					
<i>jonesii</i> Bailey	X	X			X			X	O	O	O		
<i>lanuginosa</i> Michx.	X	X	X		X		X	X	X	X	X		
<i>leporinella</i> Mackenzie	X	X							O	O	X	X	
<i>luzulifolia</i> W. Boott	X	X			X					X	X		
<i>microptera</i> Mackenzie	O	O	O						O	O	O		
<i>nebrascensis</i> Dewey	X	X	X	X	X		X	X	X	X	X	X	
<i>nervina</i> Bailey	O					O		O	O	O	O	O	
<i>nigricans</i> C.A. Mey.	X	X			X					X	X		
<i>pachystachya</i> Cham. ex Steudel.					O	O	O						
<i>phaeocephala</i> Piper	X	X									X	X	
<i>praegracilis</i> W. Boott			X	X	X		O	X	X	X	O		
<i>rossii</i> Boott ex Hook.	O		O				O	O	O	O	O	O	
<i>rostrata</i> Stokes ex With.	X	X	O		X				X	X			
<i>scopulorum</i> T. H. Holm.													
var. <i>bracteosa</i> (Bailey) F.J. Herm.	X	X				X				X	X	X	
var. <i>scopulorum</i>	X	X			X				X	O	X	X	X
<i>simulata</i> Mackenzie					O	O	O						
<i>specifica</i> Bailey	O							O	O	O	O		
<i>spectabilis</i> Dewey	O							O	O	O			
<i>straminiformis</i> Bailey	X	X	O				X	X	X	X	X	X	
<i>subnigricans</i> Stacey	X	X						O	X	X	X		
<i>tahoensis</i> Smiley	X	X							X	X		X	X
<i>vallicola</i> Dewey	X	X	X					X	X	X	X		
<i>vernacula</i> Bailey	X	X			X				O	X	X	X	
<i>vesicaria</i> L.	X	X			X				X	X	X	X	
<i>Eleocharis</i>													
<i>engelmannii</i> Steud.		X	X			X		X					
<i>palustris</i> (L.) Roemer & Schultes	X	X	X	X		X		X		X			
<i>pauciflora</i> (Lightf.) Link	X	X	X		X		X	X	X	X	X	X	
<i>Eriophorum</i>													
<i>crinigerum</i> (Gray) Beetle	X					X				O	X	X	
<i>Scirpus</i>													
<i>acutus</i> Muhl. ex Bigelow			X			X		X					
<i>americanus</i> Pers.			X			X		X					
<i>clementis</i> M.E. Jones	O		O		O					O	O		
<i>microcarpus</i> Presl.	X	X	O		X				X		X		
<i>nevadensis</i> S. Wats.			O		O		O						
<i>pungens</i> Vahl.			X		X		X		X				
ELAEAGNACEAE													
<i>Elaeagnus</i>									O		O		
<i>angustifolia</i> L.								O		O			
<i>Shepherdia</i>													
<i>argentea</i> (Pursh) Nutt.	X	X	X		X		X		X	X			
ELATINACEAE													
<i>Elatine</i>									O		O		
<i>rubella</i> Rydb.								O		O			

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
ERICACEAE													
<i>Arctostaphylos</i>													
<i>nevadensis</i> Gray				X									X
<i>Cassiope</i>													
<i>mertensiana</i> (Bong.) D. Don				X									X X
<i>Kalmia</i>													
<i>microphylla</i> (Hook.) Heller													
var. <i>microphylla</i>				X	O	X		O	O	O	X	X	X
<i>Ledum</i>													
<i>glandulosum</i> Nutt.					X	X	O				X	X	X X
var. <i>californicum</i> (Kellogg) C.L. Hitchc.													
<i>Orthilia</i>													
<i>secunda</i> (L.) House				X				X			X	X	
ssp. <i>secunda</i>													
<i>Phyllodoce</i>					X								
<i>breweri</i> (Gray) Heller												X X	X X
<i>Pterospora</i>													
<i>andromedea</i> Nutt.				X							X	X	X
<i>Pyrola</i>													
<i>californica</i> Krisa				X			X				X	X	
<i>dentata</i> Sm.													
var. <i>dentata</i>				X	X		X				X	X	X
<i>minor</i> L.				X			X						X
<i>Sarcodes</i>													
<i>sanguinea</i> Torr.				X									X
<i>Vaccinium</i>													
<i>caespitosum</i> Michx.				X			X						X X
var. <i>paludicola</i> (Camp) Hulten													
<i>uliginosum</i> L.				X									
ssp. <i>occidentale</i> (Gray) Hulten													X X X
EUPHORBIACEAE													
<i>Chamaesyce</i>													
<i>serpyllifolia</i> (Pers.) Small				X	X	X	X		X	O			X
FABACEAE													
<i>Astragalus</i>													
<i>andersonii</i> Gray				X	X						X		
<i>bolanderi</i> Gray					O						O		
<i>calycosus</i> Torr. ex S. Wats.						X			X	X	X		
var. <i>calycosus</i>													
<i>canadensis</i> L.													
var. <i>brevidens</i> (Gand.) Barneby				X			X					X	
<i>casei</i> Gray					X			X			X		
<i>curvicarpus</i> (Heller) J.F. Macbr.					O	X		X			O		
var. <i>curvicarpus</i>													
<i>gibbsii</i> Kellogg					O			O			O		
<i>iodanthus</i> S. Wats.													
var. <i>iodanthus</i>					X	X	X		X	X	O	X	
<i>johnnies-howellii</i> Barneby						X		X					
<i>kentrophyta</i> Gray													
var. <i>danaus</i> Barneby					X	X							X X
<i>lentiginosus</i> Dougl. ex Hook.													
var. <i>ineptus</i> (Gray) M.E. Jones				X	X	X			X	X	X	X	X X X X
<i>malacus</i> Gray					X	X	X		X	X			
<i>obscurus</i> S. Wats.						X					X		
<i>oophorus</i> S. Wats.													
var. <i>lavinii</i> Barneby in ed.								X	X		X	X	
<i>platytropis</i> Gray					X	X							X X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>purshii</i> Dougl. ex Hook.													
var. <i>lectulus</i> (S. Wats.) M.E. Jones	X	X		X				X	X	X		X	X
var. <i>tinctus</i> M.E. Jones	X	X	X	X				X	X	X			
<i>whitneyi</i> Gray													
var. <i>whitneyi</i>	X	X		X				X	X	X		X	X
<i>Dalea</i>													
<i>ornata</i> (Dougl. ex Hook.) Eat. & Wright					X			X					
<i>Lupinus</i>													
<i>andersonii</i> S. Wats.	X	X		X				X	X	X	X	X	X
<i>arbustus</i> Dougl. ex Lindl.													
ssp. <i>calcaratus</i> (Kellogg) Dunn	X	X		X					X	X		X	X
<i>brevicaulis</i> S. Wats.			X	X	X			X	X				
<i>caudatus</i> Kellogg													
ssp. <i>caudatus</i>	X	X	X	X				X	X	X			
ssp. <i>montigenus</i> (Heller) Hess & Dunn	X	X										X	X
<i>confertus</i> Kellogg	X	X		X			X			X			
<i>hypolasius</i> Greene	X	X										X	X
<i>lyallii</i> Gray													
var. <i>danaus</i> (Gray) S. Wats.	X											X	X
var. <i>lyallii</i>	X											X	
<i>meionanthus</i> Gray	X	X											
<i>nevadensis</i> Heller	X	X	X	X				X	X	X	X	X	X
<i>polyphyllus</i> Lindl.													
ssp. <i>superbus</i> (Heller) Munz	X	X			X							X	X
<i>sellulus</i> Kellogg													
var. <i>lobbii</i> (S. Wats.) Cox	X	X										X	X
var. <i>sellulus</i>	X											X	X
<i>tegeticulatus</i> Eastw	X	X		X				X	X		X	X	X
<i>X inyoensis</i> Heller	X	X		X				X					X
<i>Medicago</i>													
<i>lupulina</i> L.	X	X	X	X				X	X	X	X	X	
<i>sativa</i> L.	X	X	X	X				X	X	X			
<i>Melilotus</i>													
<i>albus</i> Medic.	X	X	X	X			X		X		X		
<i>officinalis</i> (L.) Pallas	X	X	X	X			X		X		X		X
<i>Oxytropis</i>													
<i>parryi</i> Gray	X	X											X
<i>Robinia</i>													
<i>pseudoacacia</i> L.	X											X	
<i>Trifolium</i>													
<i>andersonii</i> Gray													
ssp. <i>beatleyae</i> Gillett			X	X					X	X			
ssp. <i>andersonii</i>			X	X					X	X	X		
<i>cyathiferum</i> Lindl.	X	X		O		X			O	X	X		
<i>hybridum</i> L.	X				X						X		
<i>longipes</i> Nutt.													
ssp. <i>longipes</i>	X	X		O		X			O	X	O	X	X
<i>monanthum</i> Gray													
var. <i>monanthum</i>	X	X		O		X			X	X	X	X	X
<i>pratense</i> L.	X	X			X						X		
<i>productum</i> Greene	X										O	O	X
<i>repens</i> L.	X	X	X			X		X		X		X	
<i>wormskjoldii</i> Lehm.	X	X			X		X		X		X		
<i>Vicia</i>													
<i>americana</i> Muhl. ex Willd.													
ssp. <i>americana</i>	X	X	X	X		X		X		X		X	
FAGACEAE													
<i>Castanopsis</i>													
<i>sempervirens</i> (Kellogg) Dudley	X										X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
GENTIANACEAE													
<i>Frasera</i>					X	X					X	X	X
<i>speciosa</i> Dougl. ex Griseb.													
<i>Gentiana</i>					O						O	O	O
<i>calycosa</i> Griseb.													
<i>newberryi</i> Gray		X	X				X					X	X
<i>Gentianopsis</i>													
<i>holopetala</i> (Gray) Iltis		X	X	O		X	X	X	X	O	X	X	
GERANIACEAE													
<i>Erodium</i>					X	X	X	X		X	X	X	X
<i>cicutarium</i> (L.) L'Her.													
<i>Geranium</i>					X	X	X		X	X	X	O	X
<i>richardsonii</i> Fisch. & Trautv.													
HALORAGIDACEAE													
<i>Hippuris</i>					X	X	X	X		X	X	X	X
<i>vulgaris</i> L.													
HYDROCHARITACEAE													
<i>Elodea</i>					X				X		X		X
<i>canadensis</i> Michx.													
HYDROPHYLACEAE													
<i>Hesperochiron</i>					X	X	X	X		X	X	X	X
<i>californicus</i> (Benth.) S. Wats.													
<i>Hydrophyllum</i>													
<i>capitatum</i> Dougl. ex Benth.		X	X										
var. <i>alpinum</i> S. Wats.													
<i>Nama</i>													
<i>aretioides</i> (Hook. & Arn.) Brand		X	X	X					X	X	X		
<i>densum</i> Lemmon		X	X	O						O	X		
<i>rothrockii</i> Gray				O						O			
<i>Nemophila</i>													
<i>spatulata</i> Coville		X	X	X						X	X	X	X
<i>Phacelia</i>													
<i>bicolor</i> Torr. ex S. Wats.				O						O			
<i>curvipes</i> Torr. ex S. Wats.		X	X	X	X				X	X	X		
<i>frigida</i> Greene		X	X									X	X
<i>hastata</i> Dougl. ex Lehm.													
ssp. <i>compacta</i> (Brand) Heckard		X	X	X	X					X	X	X	X
<i>heterophylla</i> Pursh													
ssp. <i>virgata</i> (Greene) Heckard		X	X	X	X				X	X	X	X	
<i>humilis</i> Torr. & Gray													
var. <i>humilis</i>		X	X	X	X				X	X	X		
<i>hydropylloides</i> Torr. ex Gray		O								O		O	
<i>linearis</i> (Pursh) Holz.			X							X			
<i>monoensis</i> Halse			X							X	X		
<i>peirsoniana</i> J.T. Howell			X							X			
<i>ramosissima</i> Dougl. ex Lehm.													
var. <i>ramosissima</i>		X	X	X	X				X	X	X	X	X
<i>tetrameria</i> J.T. Howell					X				X	X			
<i>Tricardia</i>													
<i>watsonii</i> Torr. ex S. Wats.					X				X	X			
IRIDACEAE													
<i>Iris</i>													
<i>missouriensis</i> Nutt.		X	X	X	X				X	X	X	X	X
<i>Sisyrinchium</i>													
<i>halophilum</i> Greene		X	X	X	X				X	X	X		
<i>idahoense</i> Bickn.													
var. <i>occidentale</i> (Bickn.) Henderson		X	X	X	X				X	X	X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
JUNCACEAE													
<i>Juncus</i>													
<i>balticus</i> Willd.	X	X	X	X	X		X	X	X				
<i>bryoides</i> F.J. Herm.	X	X			X		X	X		X	X		
<i>bufonius</i> L.													
var. <i>occidentalis</i> F.J. Herm.	X	X			X			X					
var. <i>bufonius</i>	X	X	O		X		O	X		X	X		
<i>capillaris</i> F.J. Herm.	X	X			X						X		
<i>chlorocephalus</i> Engelm.	O								O	O	O	O	
<i>drummondii</i> E. Mey.	O								O	O	O	O	
<i>ensifolius</i> Wikstr.													
var. <i>montanus</i> (Engelm.) C.L. Hitchcock					O	O	O						
<i>hemiondytus</i> F.J. Herm.	X	X			X		X		O		O	O	
<i>kelloggii</i> Engelm.	O		O		O		O	O					
<i>longistylis</i> Torr.	X	X			X						X	X	
<i>macrandrus</i> Coville					X								
<i>megaspermus</i> F.J. Herm.	O				O		O						
<i>mertensianus</i> Bong.	X	X			X		X	X		X	X		
<i>mexicanus</i> Willd.	X	X	X	X	X		X	X	X	X	X		
<i>nevadensis</i> S. Wats.	X	X	O		X		X	X		O	O		
<i>orthophyllus</i> Coville	X	X	X	X	X		X	X	X	X	X		
<i>parryi</i> Engelm.	X	X	O								X	X	X
<i>saximontanus</i> A. Nels.	X	X			X						X		
<i>Luzula</i>													
<i>divaricata</i> S. Wats.					X	X					X	X	
<i>multiflora</i> (Retz.) Lej.													
ssp. <i>comosa</i> (E. Mey.) Hulten	X	X							X	X	X	X	
<i>spicata</i> (L.) DC.	X	X								X			
<i>subcongesta</i> (S. Wats.) Jepson	X								X	X	X	X	
JUNCAGINACEAE													
<i>Triglochin</i>													
<i>concinna</i> Burtt-Davy													
var. <i>debilis</i> (M.E. Jones) J.T. Howell					O	O	O						
<i>maritima</i> L.					X	O	X	X					
LAMIACEAE													
<i>Agastache</i>													
<i>urticifolia</i> (Benth.) Kuntze					X	X	X	X		X	X	X	X
<i>Marrubium</i>													
<i>vulgare</i> L.					X	X	X	X		X	X	X	X
<i>Mentha</i>													
<i>arvensis</i> L.					O	X	X	X	X	X	X		
ssp. <i>haplocalyx</i> Briq.													
<i>Monardella</i>													
<i>odoratissima</i> Benth.													
ssp. <i>glaucia</i> (Greene) Epling					X	X	X			X	X	X	X
<i>Salvia</i>													
<i>dorrii</i> (Kellogg) Abrams													
var. <i>dorrii</i>						X	X	X		X	X		
<i>Trichostema</i>													
<i>austromontana</i> Lewis					O	O	O			O	O	O	
LEMNACEAE													
<i>Lemna</i>													
<i>gibba</i> L.					X	X	X	X	X	X	X	X	X
<i>minuta</i> H.B.K.						O	O	O		O			
<i>trisulca</i> L.					X		X	X			X		
LENTIBULARIACEAE													
<i>Utricularia</i>													
<i>vulgaris</i> L.					X			X		X		X	

Table 1 continued.

Table 1 continued.

	AREAS	HABITATS											
		N	S	W	M	1	2	3	4	5	6	7	8
MALVACEAE													
<i>Malva</i>						X	X	X	X		X	X	
<i>neglecta</i> Wallr.													
<i>Sidalcea</i>					O					O	O	O	
<i>glaucescens</i> Greene					X	X				X	X		
<i>multifida</i> Greene													
<i>oregana</i> (Torr. & Gray) Gray						X	X	X	X		X	X	
ssp. <i>spicata</i> (Regel) C.L. Hitchc.													
<i>Sphaeralcea</i>													
<i>ambigua</i> Gray						X	X			X	X		
ssp. <i>monticola</i> Kearney						X	X			X	X		
<i>grossularifolia</i> (Hook. & Arn.) Rydb.										X	X		
MORACEAE													
<i>Humulus</i>						O				O			
<i>lupulus</i> L.													
var. <i>lupuloides</i> E. Small													
NYCTAGINACEAE													
<i>Abronia</i>						O				O			
<i>turbinata</i> Torr. ex S. Wats.													
<i>Mirabilis</i>													
<i>bigelovii</i> Gray						X	X			X	X		
var. <i>retrorsa</i> (Heller) Munz													
NYMPHAEACEAE													
<i>Nuphar</i>						X				X			
<i>luteum</i> (L.) Sibthorp. & Sm.													
ssp. <i>polysepalum</i> (Engelm.) E.O. Beal												X	
OLEACEAE													
<i>Menodora</i>						X				X			
<i>spinescens</i> Gray													
ONAGRACEAE													
<i>Boisduvalia</i>						X						X	
<i>densiflora</i> (Lindl.) S. Wats.													
<i>Camissonia</i>													
<i>claviformis</i> (Torr. & Frem.) Raven						X	X	X		X	X		
ssp. <i>integrior</i> (Raven) Raven						X	X	X		X	X		
<i>nevadensis</i> (Kellogg) Raven						X	X			X	X		
<i>pubens</i> (S. Wats.) Raven						X	X	X				X	
<i>pusilla</i> Raven						X	X	X		X	X		
<i>subacaulis</i> (Pursh) Raven						X	X	X	X	X		X	
<i>tanacetifolia</i> (Torr. & Gray) Raven												X	
ssp. <i>tanacetifolia</i>						X	X	X		X	X	X	
<i>Circaeaa</i>													
<i>alpina</i> L.													
ssp. <i>pacifica</i> (Aschers. & Magnus) Raven						X				X	O	O	
<i>Epilobium</i>													
<i>anagallidifolium</i> Lam.						X	X			X		X	
<i>angustifolium</i> L.						X	X	X	X	X	X	X	
<i>brachycarpum</i> Presl.						X	X	X		X	X	X	
<i>ciliatum</i> Raf.													
ssp. <i>ciliatum</i>						X	X	X	X	X	X	X	
<i>glaberrimum</i> Barbey						X	X			O	O	X	
<i>lactiflorum</i> Hausskn.						X	X			X	X	X	
<i>latifolium</i> L.						X	X					X	
<i>obcordatum</i> Gray													
ssp. <i>obcordatum</i>						X	X					X	
<i>oregonense</i> Hausskn.						X	X	O		O	X		

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Gayophytum</i>													
<i>decipiens</i> Lewis & Szweykowski	X	X	X	X	X		X	X	X	X	X	X	X
<i>diffusum</i> Torr. & Gray	X	X		O	X		X	X	X	X	X	X	X
ssp. <i>parviflorum</i> Lewis & Szweykowski	X	X		O	X		X	X	X	X	X	X	X
<i>heterozygum</i> Lewis & Szweykowski	X	X			X		X	X	X	X	X	X	X
<i>ramosissimum</i> Torr. & Gray	X	X	X	X	X		X	X	X	X	X	X	X
<i>Oenothera</i>													
<i>caespitosa</i> Nutt.					X	X	X		X	X	X	X	X
ssp. <i>marginata</i> (Nutt.) Munz					X	X	X		X	X	X	X	X
<i>hookeri</i> Torr. & Gray					O		O		O		O		O
ssp. <i>angustifolia</i> (R.R. Gates) Munz					X	X	X	X	X	X	X	X	X
ORCHIDACEAE													
<i>Corallorrhiza</i>													
<i>maculata</i> Raf.					X						X	O	O
<i>Epipactis</i>					O				O		O		O
<i>gigantea</i> Dougl. ex Hook.					O				O		O		O
<i>Listera</i>													
<i>convallarioides</i> (Sw.) Nutt.					X		X		X		X		X
<i>Platanthera</i>													
<i>dilatata</i> (Pursh) Lindl. ex Beck					X	X		X		X	X	X	X
var. <i>leucostachys</i> (Lindl.) Luer					X	X		X		X	X	X	X
<i>sparsiflora</i> (S. Wats.) Schlechter					X	X		X		X	X	X	X
<i>Spiranthes</i>					O		O		O		O	O	O
<i>romanzoffiana</i> Cham.					O		O		O		O	O	O
OROBANCHACEAE													
<i>Orobanche</i>													
<i>corymbosa</i> (Rydb.) Ferris						X	X		X	X			
var. <i>corymbosa</i>						X	X		X	X			
<i>fasciculata</i> Nutt.						X	X	O	O	O	O		
var. <i>lutea</i> (Parry) Ashey						X	X	X	X	X	X	X	X
var. <i>fasciculata</i>						X	X	X	X	X	X	X	X
PAEONIACEAE													
<i>Paeonia</i>													
<i>brownii</i> Dougl. ex Hook.						X	X			X	X	X	X
PAPAVERACEAE													
<i>Argemone</i>													
<i>munita</i> Dur. & Hilg.													
ssp. <i>rotundata</i> (Rydb.) G. Ownbey						X	X	X	X	X	X	X	X
<i>Corydalis</i>													
<i>aurea</i> Willd.						X	X			X	X	X	X
<i>Dicentra</i>													
<i>uniflora</i> Kellogg						X	X				O	X	X
<i>Eschscholzia</i>													
<i>californica</i> Cham.						X	X			X	X		
PLANTAGINACEAE													
<i>Plantago</i>													
<i>lanceolata</i> L.						X	X		X	X	X		
POACEAE													
<i>Agropyron</i>													
<i>dasystachyum</i> (Hook.) Scribn. & Sm.													
var. <i>dasystachyum</i>								O		X	X	O	
<i>desertorum</i> (Link.) Schultes						X	X	X		X	X	X	X
<i>pringlei</i> (Scribn. & Sm.) A.S. Hitchc.						X	X						X
<i>scribneri</i> Vasey						X							X
<i>trachycaulum</i> (Link.) Malte ex H. Lewis													
var. <i>latiglume</i> (Scribn. & Sm.) Beetle						O					O		
var. <i>trachycaulum</i>						X	X	X		X	X	X	

Table 1 continued.

	AREAS					HABITATS								
	N	S	W	M		1	2	3	4	5	6	7	8	9
<i>Agrostis</i>														
<i>capillaris</i> L.	X	X	X						X	X	X	X	X	X
<i>exarata</i> Trin.	X	X	X	O		X		X	X					X
<i>filiculmis</i> M.E. Jones	X	X							X					X
<i>levida</i> A.S. Hitchc.	X	X												X X
<i>scabra</i> Willd.	X	X		O		X		X	X	X				X
<i>Alopecurus</i>														
<i>aequalis</i> Sobol.	X	X		X		X		X	X	X				
<i>geniculatus</i> L.	X	X				X								X X
<i>Beckmannia</i>														
<i>szygachne</i> (Stendl.) Fearn.						X			X	X				
<i>Bromus</i>														
<i>anomalus</i> Rupr. ex Fourn.					O				O					
<i>carinatus</i> Hook. & Arn.	X	X	X	X		X		X	X	X				X
<i>catharticus</i> Vahl	X	X							X					X
<i>commutatus</i> Schrad.	X	X				X		X	X					
<i>inermis</i> Leyes.	X	X		X		X								X
<i>rubens</i> L.					X X				X					
<i>suksdorffii</i> Vasey	O										O O O O			
<i>tectorum</i> L.	X	X	X	X				X	X	X				
<i>Calamagrostis</i>														
<i>breweri</i> Thurb.	X													X
<i>canadensis</i> (Michx.) Beauv.	X	X		O		X			X					X
<i>purpurascens</i> R. Br.	X	X												X X
<i>Dactylis</i>														
<i>glomerata</i> L.	X										X	X		
<i>Danthonia</i>														X
<i>intermedia</i> Vasey	X													
<i>Deschampsia</i>														
<i>cespitosa</i> (L.) Beauv.														
ssp. <i>cespitosa</i>	X	X		O		X		X	X	X		X X	X X	X
<i>dianthionoides</i> (Trin.) Munro ex Benth.	X	X				X		X						
<i>elongata</i> (Hook.) Munro ex Benth.	X	X		O		X			O X			X X		
<i>Distichlis</i>														
<i>spicata</i> (L.) Greene														
var. <i>stricta</i> (Torr.) Beetle						X X			X X					
<i>Echinochloa</i>														
<i>crusgalli</i> (L.) Beauv.	X	X												
<i>Elymus</i>														
<i>cinereus</i> Scribn. & Merr.	X	X	X	X					X X X X					X
<i>glaucus</i> Buckl.														
ssp. <i>glaucus</i>	X	X										X	X	
ssp. <i>virescens</i> (Piper) Gould						X								
<i>triticoides</i> Buckl.														
var. <i>triticoides</i>						X X X			X X					
var. <i>pubescens</i> A.S. Hitchc.						X X X			X X					
<i>Elystianion</i>														
<i>X hansenii</i> (Scribn.) Bowden	X	X												X X
<i>Eragrostis</i>														
<i>orcuttiana</i> Vasey						X			X					
<i>Festuca</i>														
<i>brachyphylla</i> Schultes	X	X		O										X X
<i>pratensis</i> Huds.		X							X X X					
<i>rubra</i> L.	X	X							X		X		X X	X X
<i>Glyceria</i>														
<i>elata</i> (Nash) M.E. Jones	X	X				X			X		X		X	X
<i>Hilaria</i>														
<i>jamesii</i> (Torr.) Benth.						X			X X					
<i>Hordeum</i>														
<i>brachyantherum</i> Nevski	X	X		X					X X X					X
<i>iubatum</i> L.	X	X	X	X					X X X					X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Koeleria</i>													
<i>nitida</i> Nutt.			X	X	X	X			X	X	X	X	X
<i>Leucopoa</i>													
<i>kingii</i> (S. Wats.) W.A. Weber			X	X	X	X			X	X	X	X	X
<i>Melica</i>													
<i>bulbosa</i> Geyer ex Porter & Coulter			X	X					X	X		X	X
<i>stricta</i> Boland.			X	X		X			X	X	X	X	X
<i>Muhlenbergia</i>													
<i>asperifolia</i> (Nees & Meyem) Parodi			X	X	X	X			X	X			
<i>filiformis</i> (Thurb.) Rydb.			X	X								X	X
<i>richardsonis</i> (Trin.) Rydb.			X	X	X	X			X	X	X	X	X
<i>Oryzopsis</i>													
<i>hymenoides</i> (Roemer & Schultes) Ricker			X	X	X	X			X	X	X	X	
<i>Panicum capillare</i> L.						X			X	X			
<i>Phleum</i>													
<i>alpinum</i> L.			X	X		X			X	X	X	X	X
<i>pratense</i> L.			X	X	X	X			X	X	X		
<i>Phragmites</i>													
<i>australis</i> (Cav.) Trin. ex Steud.					X	O			X	X			
<i>Poa</i>													
<i>ampla</i> Merr.			X	X		X			X	X			
<i>annua</i> L.			X	X					X		X		
<i>bolanderi</i> Vasey			X	X							X		
<i>bulbosa</i> L.			X	X					X	X	X		
<i>compressa</i> L.			X	X					X	X	X		
<i>cusickii</i> Vasey					X	X	X				X	X	X
<i>epilis</i> Scribn.					X	X					X	X	X
<i>fendleriana</i> (Steud.) Vasey					X	X	X				X	X	X
<i>gracillima</i> Vasey					X	X							X
<i>incurva</i> Scribn. & Williams					X	X							X
<i>interior</i> Rydb.					X	X					X	X	
<i>leibergii</i> Scribn.					X	X							X
<i>leptocoma</i> Trin.							X	O			X		
<i>nervosa</i> (Hook.) Vasey					X	X	X				X	X	X
<i>nevadensis</i> Vasey ex Scribn.								O	O				O
var. <i>juncifolia</i> (Scribn.) Beetle					X	X							X
var. <i>nevadensis</i>					X	X	X	X			X	X	X
<i>palustris</i> L.					X	X	X	O			X	X	X
<i>pratensis</i> L.					X	X	X	X			X	X	X
<i>rupicola</i> Nash. ex Rydb.					X	X							X
<i>scabrella</i> (Thurb.) Benth. ex Vasey					X	X	X				X	X	
<i>secunda</i> Presl.					X	X	X	X			X	X	X
<i>suksdorffii</i> (Beal) Vasey ex Piper					O	O							O
<i>Polypogon</i>													
<i>monspeliensis</i> (L.) Desf.					X	X	X	X			X	X	X
<i>Puccinellia</i>													
<i>distans</i> (Jacq.) Parl.					O				O		O		
<i>lemonii</i> (Vasey) Scribn.					X	X					X	X	X
<i>nuttalliana</i> (Schultes) A.S. Hitchc.					O				O		O		
<i>Secale</i>													
<i>cereale</i> L.					X	X							X
<i>Sitanion</i>													
<i>hystrix</i> (Nutt.) J.G. Smith					X	X	X	X			X	X	X
var. <i>brevifolium</i> (J.G. Smith) C.L. Hitchc.					X	X	X	X			X	X	X
<i>jubatum</i> J.G. Smith					X	X							X
<i>Sphenopholis</i>													
<i>obtusata</i> (Michx.) Scribn								O	O	O			
var. <i>obtusata</i>													
<i>Sporobolus</i>													
<i>cryptandrus</i> (Torr.) Gray							X				X		

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Stipa</i>													
<i>californica</i> Merr. & Burtt-Davy	X	X							X	X	X		
<i>columbiana</i> Macoun.	X	X									X	X	
<i>comata</i> Trin. & Rupr.													
var. <i>comata</i>	X	X	X	X					X	X	X	X	
<i>nevadensis</i> B.L. Johnson	X	X	X	X					X	X	X	X	X
<i>occidentalis</i> Thurb. ex S. Wats.	X	X		X					X	X	X		
<i>pinetorum</i> M.E. Jones				O							O		
<i>speciosa</i> Trin. & Rupr.	X	X	X							X			
<i>thurberiana</i> Piper				X					X	X	X		
<i>webberi</i> (Thurb.) B.L. Johnson				X					X		X		
<i>Trisetum</i>													
<i>spicatum</i> (L.) Richt.													
ssp. <i>spicatum</i>	X	X		X						X	X	X	X
<i>triflorum</i> (Bigelow) Love & Love													
ssp. <i>molle</i> (Michx.) Love & Love	X	X											X
<i>Vulpia</i>													
<i>megalura</i> (Nutt.) Rydb.	X	X									X		
<i>octoflora</i> (Walt.) Rydb.													
var. <i>hirtella</i> (Piper) Henr.	X	X	X	X						X	X		
var. <i>octoflora</i>	X	X	X							X			
POLEMONIACEAE													
<i>Allophylum</i>													
<i>giliooides</i> (Benth.) A. & V. Grant	X	X		X			X	X	X	X			
<i>integrifolium</i> (Brand) A. & V. Grant	O									O	O		
<i>violaceum</i> (Heller) A. & V. Grant	X	X	X	X			X	X	X	X			
<i>Collomia</i>													
<i>grandiflora</i> Dougl. ex Lindl.	X	X		X					X	X	X		
<i>linearis</i> Nutt.	X	X	X	X			X	X	X	X	X	X	X
<i>tinctoria</i> Kellogg	X	X	X						X	X			
<i>Eriastrum</i>													
<i>sparsiflorum</i> (Eastw.) Mason				X	X	X			X	X			
<i>wilcoxii</i> (A. Nels.) Mason	X	X		O					X	X	X		
<i>Gilia</i>													
<i>brecciarum</i> M.E. Jones													
ssp. <i>brecciarum</i>	X	X	X	X					X	X	X		
<i>capillaris</i> Kellogg	X	X					X			X	O	O	O
<i>inconspicua</i> (Sm.) Sweet					O		O						
<i>interior</i> (Mason & A. Grant) A. Grant	O										O		
<i>leptalea</i> (Gray) Greene													
ssp. <i>leptalea</i>	X	X											X
<i>leptantha</i> Parish													
ssp. <i>salticola</i> (Eastw.) A. & V. Grant	X	X											X
<i>leptomeria</i> Gray					X	X			X	X			
<i>malior</i> Day & V. Grant					X	X				X			
<i>modocensis</i> Eastw.	X	X	X	X					X	X	X	X	X
<i>ophthalmoides</i> Brand	X	X	X	X					X	X		X	
<i>sinuata</i> Dougl. ex Benth.					O		O	O	O	O			
<i>Gymnosteris</i>													
<i>parvula</i> (Rydb.) Heller	X	X	X	X					X	X	X	X	X
<i>Ipomopsis</i>													
<i>aggregata</i> (Pursh) V. Grant											X		
ssp. <i>aggregata</i>	X	X											
ssp. <i>attenuata</i> (Gray) V. & A. Grant	X	X		X					X	X		X	X
<i>congesta</i> (Hook.) V. Grant													
ssp. <i>montana</i> (A. Nels. & Kennedy) V. Grant	X										X	X	X
ssp. <i>palmifrons</i> (Brand) Day	X	X		X					X		X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Leptodactylon</i>													
<i>pungens</i> (Torr.) Nutt. ex Rydb.					X	X	X	X	X	X	X	X	X
ssp. <i>pulchriflorum</i> (Brand) Mason													
<i>Linanthus</i>													
<i>ciliatus</i> (Benth.) Greene					X				X	X	X	X	X
var. <i>neglectus</i> (Greene) Jepson									X	X	X	X	X
<i>nuttallii</i> (Gray) Greene ex Milliken					X	X	O		X	X	X	X	X
ssp. <i>nuttallii</i>					X	X	X	X	X	X	X	X	X
<i>septentrionalis</i> Mason													
<i>Microsteris</i>													
<i>gracilis</i> (Hook.) Greene					X	X			X		O	O	O
ssp. <i>gracilis</i>					X	X	X		X	X	X	X	X
ssp. <i>humilis</i> (Greene) V. Grant													
<i>Navarretia</i>													
<i>breweri</i> (Gray) Greene					X	X	X	X	X	X	X	X	X
<i>divaricata</i> (Torr. ex Gray) Greene													
var. <i>divaricata</i>					O				O				
<i>Phlox</i>													
<i>caespitosa</i> Nutt.					X	X					X	X	X
ssp. <i>pulvinata</i> Wherry					X	X	X				X	X	X
<i>covillei</i> E. Nels.											O	O	O
<i>diffusa</i> Benth.					O								
ssp. <i>subcarinata</i> Wherry					X	X	X				O	O	O
ssp. <i>diffusa</i>											X	X	X
<i>hoodii</i> Richards													
ssp. <i>canescens</i> (Torr. & Gray) Wherry					X	X	O		X	X	X	X	X
<i>longifolia</i> Nutt.					X	X	X	X	X	X	X	X	X
<i>Polemonium</i>													
<i>caeruleum</i> L.					X	X			X		X	X	
ssp. <i>amygdalinum</i> (Wherry) Munz					O						O	O	O
<i>californicum</i> Eastw.						X							X
<i>chartaceum</i> Mason						X							X
<i>eximium</i> Greene						X							X
<i>pulcherrimum</i> Hook.						X	X						X
POLYGALACEAE													
<i>Polygala</i>													
<i>intermontana</i> Wendt							X		X	X			
<i>subspinosa</i> S. Wats.						X	X		X	X			
POLYGONACEAE													
<i>Chorizanthe</i>													
<i>brevicornu</i> Torr.													
var. <i>spathulata</i> (Rydb.) C.L. Hitchc.					X		O		X				
<i>watsonii</i> Torr. & Gray					X	X	X		X				
<i>Eriogonum</i>													
<i>baileyi</i> S. Wats.						X	X	X	X		X	X	X
var. <i>baileyi</i>							O				O		
<i>beatleyae</i> Reveal						X				X			
<i>brachyantherum</i> Coville						X				X			
<i>caespitosum</i> Nutt.						X	X	X	X	X	X	X	X
var. <i>cernuum</i>							X			X			
<i>elatum</i> Dougl. ex Benth.						X	X	X	X		X	X	X
var. <i>elatum</i>						X	O			X	O		
<i>esmeraldense</i> S. Wats.													
<i>heermannii</i> Dur. & Hilg.													
var. <i>humilis</i> (Stokes) Reveal						X	X	X		X	X		
<i>hookeri</i> S. Wats.							O			O			
<i>incanum</i> Torr. & Gray						X						X	X

Table 1 continued.

	AREAS				HABITATS											
	N	S	W	M	1	2	3	4	5	6	7	8	9			
<i>lobbii</i> Torr. & Gray					X	X						X	X	X		
var. <i>lobbii</i>					X				X	X						
<i>maculatum</i> Heller																
<i>marifolium</i> Torr. & Gray					X	X						X	X	X		
<i>microthecum</i> Nutt.																
var. <i>laxiflorum</i> Hook.					X	X	X			X	X	X		X	X	X
var. <i>ambiguum</i> (M.E. Jones) Reveal					X	X	X	X		X	X	X				
<i>nidularium</i> Coville					X	X	X			X	X					
<i>nudum</i> Dougl. ex Benth.																
var. <i>deductum</i> (Greene) Jepson					X	X						X		X	X	X
<i>nutans</i> Torr. & Gray																
var. <i>nutans</i>							X			X	O					
<i>ochrocephalum</i> S. Wats.																
var. <i>alexandrae</i> Reveal in ed							X	X		X	X	X				
<i>ovalifolium</i> Nutt.																
var. <i>ovalifolium</i>					X	X	X	X		X	X	X		X	X	
var. <i>nivale</i> (Canby) M.E. Jones					X	X	X			X	X			X	X	
var. <i>nevadense</i> Gaudiger					X	X	X	X		X	X	X				
<i>pusillum</i> Torr. & Gray							X	X								
<i>rosense</i> A. Nels. & Kennedy					X	X	X				X		X	X	X	
<i>spergulinum</i> Gray																
var. <i>reddingianum</i> (M.E. Jones) J.T. Howell					X	X	X	X		X	X	X		X	X	X
<i>strictum</i> Benth.																
ssp. <i>proliferum</i> (Torr. & Gray) Stokes							X			X	O					
<i>umbellatum</i> Torr.																
var. <i>nevadense</i> Gaudiger					X	X							X	X		
var. <i>umbellatum</i>					X	X	X	X		X	X	X		X	X	X
<i>vimineum</i> Dougl. ex Benth.							X	X	X		X	X				
<i>wrightii</i> Torr. ex Benth.																
var. <i>subscaposum</i> S. Wats.					X	X	X	X			X	X	X			
<i>Oxyria</i>																
<i>digyna</i> (L.) Hill							X	X	O					X	X	
<i>Oxytheca</i>																
<i>dendroidea</i> Nutt.																
ssp. <i>dendroidea</i>									X		X					
<i>Polygonum</i>																
<i>amphibium</i> L.																
var. <i>stipulaceum</i> Coleman					X				X	X	X					
<i>aviculare</i> L.					X	X	X	X			X					
<i>bistortoides</i> Pursh					X	X			X			X	X	X		
<i>douglasii</i> Greene																
var. <i>douglasii</i>					X	X	X	X		X	X	X		X		
var. <i>johnstonii</i> Munz					O	O				O	O	O	O			
var. <i>latifolium</i> (Engelm.) Greene					X	X	X			X			X	X		
<i>kelloggii</i> Greene					X	X	X	X		X	X	X		X	X	
<i>minimum</i> S. Wats.					X									X	X	
<i>persicaria</i> L.							X		X	X						
<i>shastense</i> Brewer ex Gray					X									X	X	
<i>Rumex</i>																
<i>acetosella</i> L.					X	X					X		X			
<i>californicus</i> Rech. f.					X	X	O			X	O	O	O	O		
<i>crispus</i> L.					X	X	X	X		X	X	X				
<i>lacustris</i> Greene							O		O	O	O					
<i>occidentalis</i> S. Wats.					O				O							
<i>paucifolius</i> Nutt. ex S. Wats.																
ssp. <i>paucifolius</i>					X	X	X		X		X	X	X			
ssp. <i>gracilescens</i> (Rech. f.) Rech. f.					X	X								X		
<i>salicifolius</i> Weinm.							X			X						
<i>triangulivalvis</i> (Danser) Rech. f.					X	X	X		X	X	X	X				

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
PORTULACACEAE													
<i>Calyptidium</i>													
<i>roseum</i> S. Wats.		X	X	X	X			X	X				
<i>umbellatum</i> (Torr.) Greene		X	X		X			X	X	X	X	X	X
<i>Claytonia</i>													
<i>nevadense</i> S. Wats.		X	X			X						X	X
<i>rubra</i> (T.J. Howell) Tidestrom		X	X	X	X		X	X		X			
<i>umbellata</i> S. Wats.		X	X										X
<i>Lewisia</i>													
<i>nevadensis</i> (Gray) B.L. Robins.		X	X	X	X	X			X		X	X	X
<i>pygmaea</i> (Gray) B.L. Robins.								X		X	X	X	X
ssp. <i>pygmaea</i>		X	X								X	X	X
<i>rediviva</i> Pursh													
ssp. <i>rediviva</i>			X	X	X			X			X	X	
ssp. <i>minor</i> (Rydb.) A. Holmgren			X	X	X				X	X			
<i>sierrae</i> Ferris		X		O								X	X
<i>triphylla</i> (S. Wats.) B.L. Robins.		X								O	X	O	
<i>Montia</i>													
<i>chamissoi</i> (Ledeb. ex Spreng.) Greene		X	X	X	X	X		X		X	X	X	X
POTAMOGETONACEAE													
<i>Potamogeton</i>													
<i>gramineus</i> L.		X	X		X	X		X		X	X	X	
<i>richardsonii</i> (Benn.) Rydb.		X			X								X
PRIMULACEAE													
<i>Androsace</i>													
<i>septentrionalis</i> L.		X	X									X	X
var. <i>subumbellata</i> A. Nels.													
<i>Dodecatheon</i>													
<i>alpinum</i> (Gray) Greene		X	X			X						X	X
ssp. <i>alpinum</i>		X	X	X	X	X						X	X
ssp. <i>majus</i> H.J. Thompson		O				O						X	X
<i>jeffreyi</i> Van Houtte										O	O	O	O
<i>Primula</i>													
<i>suffrutescens</i> Gray		O										O	O
RANUNCULACEAE													
<i>Aconitum</i>													
<i>columbianum</i> Nutt.		X	X	O		X			O	X		X	
<i>Actaea</i>													
<i>rubra</i> (Ait.) Willd.		X				X				X	X	X	
ssp. <i>arguta</i> (Nutt.) Hulten													
<i>Anemone</i>													
<i>drummondii</i> S. Wats.		X								O	O	X	X
<i>Aquilegia</i>													
<i>formosa</i> Fisch.		X	X	X	X	X		X	X	X	X	X	X
var. <i>pauciflora</i> (Greene) Boothman													
var. <i>formosa</i>		X	X	X	X	X		X	X	X	X	X	X
<i>pubescens</i> Coville		X										X	X
<i>Caltha</i>													
<i>leptocephala</i> DC.													
ssp. <i>howellii</i> (Huth) P.G. Smith		X											X
<i>Clematis</i>													
<i>ligusticifolius</i> Nutt.		O				O			O		O		
var. <i>brevifolia</i> Nutt.													
<i>Delphinium</i>													
<i>andersonii</i> Gray		X	X	X	X		X	X	X	X		X	
ssp. <i>andersonii</i>		X	X				X	X	O	X	X		
<i>glaucum</i> S. Wats.									X	O	X	X	

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>parishii</i> Gray					X X		X X						
ssp. <i>parishii</i>					X							X X X	
<i>polycladon</i> Eastw.													
<i>Myosurus</i>													
<i>aristatus</i> Benth. ex Hook.					X X X X		X		X X X				
<i>minimus</i> L.													
ssp. <i>montanus</i> Campbell					X X X X		X		X X				
<i>Ranunculus</i>													
<i>alismifolius</i> Geyer ex Benth.					X X		X		X X O X X				
var. <i>alismellus</i> Gray					O		O		O O O				
<i>andersonii</i> Gray													
<i>aquatilis</i> L.													
var. <i>capillaceus</i> (Thuill.) DC.					X X X O		X		X O X O X X				
<i>cymbalaria</i> Pursh													
var. <i>saximontanus</i> Fern.					X X X X		X		X X X X X X				
<i>eschscholtzii</i> Schlecht.					X X		X					X X	
var. <i>eschscholtzii</i>												X X	
var. <i>oxynotis</i> (Gray) Jepson					X X	O						X X X	
<i>glaberrimus</i> Hook.													
var. <i>ellipticus</i> Hook.					X		X		X O O O				
<i>occidentalis</i> Torr. & Gray													
var. <i>ultramontanus</i> Greene					X X		X		X				
<i>testiculatus</i> Crantz					X X		X		X				
<i>Thalictrum</i>													
<i>fendleri</i> Gray					X X							X X X X	
var. <i>fendleri</i>													
<i>sparsiflorum</i> Turcz. ex Fisch. & Mey.					X X							X X X	
var. <i>saximontanum</i> Boivin													
RHAMNACEAE													
<i>Ceanothus</i>													
<i>greggii</i> Gray					X X				X				
var. <i>vestitus</i> (Greene) McMinn													
<i>velutinus</i> Dougl. ex Hook.					X X	X			X X X X X X				
<i>Rhamnus</i>													
<i>rubra</i> Greene					X		O						
ssp. <i>rubra</i>												X	
ROSACEAE													
<i>Amelanchier</i>													
<i>pallida</i> Greene					X X X X				X X X X				
<i>pumila</i> Torr. & Gray					X				X X X X				
<i>utahensis</i> Koehne													
var. <i>covillei</i> (Standl.) Clokey					X				X				
var. <i>utahensis</i>					X X X X				X X X X X				
<i>Cercocarpus</i>													
<i>ledifolius</i> Nutt. ex Torr. & Gray													
var. <i>ledifolius</i>					X X X X				X X X X			X X	
var. <i>intricatus</i> (S. Wats.) M.E. Jones					X X				X				
<i>Chamaebatia</i>													
<i>millefolium</i> (Torr.) Maxim.									X		X X		
<i>Fragaria</i>													
<i>virginiana</i> Duchesne													
ssp. <i>platypetala</i> (Rydb.) Staudt					O		O		O O O O				
<i>Geum</i>													
<i>canescens</i> (Greene) Munz					X X		X		X X X X		X X X		
<i>macrophyllum</i> Willd.					X X X X		X		X X X X		X X		

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Holodiscus</i>													
<i>dumosa</i> (Nutt.) Heller					X	X	X	X		X	X	X	X
var. <i>glabrescens</i> (Greenm.) C.L. Hitchc.													
<i>Horkelia</i>													
<i>fusca</i> Lindl.					X	X	O			X	X	X	
ssp. <i>pseudocapitata</i> (Rydb.) Keck													
<i>Ivesia</i>													
<i>gordonii</i> (Hook.) Torr. & Gray					X	X						X	X
<i>lycopodioides</i> (Hook.) Torr. & Gray					X	X		X				X	
ssp. <i>lycopodioides</i>													
ssp. <i>megalopetala</i> (Rydb.) Keck					X			X				X	
<i>muirii</i> Gray					O							O	O
<i>purpurascens</i> (S. Wats.) Keck					O	X			O		X		
ssp. <i>congdonis</i> (Rydb.) Keck													
<i>shockleyi</i> S. Wats.					X						X	X	
<i>Potentilla</i>													
<i>anserina</i> L.					X		X	X	X	X			
ssp. <i>anserina</i>					X	X	X	X	X	X	X	X	X
<i>biennis</i> Greene													
<i>breweri</i> S. Wats.					X	X				O	O	X	X
<i>diversifolia</i> Lehm.					X	X		X			O	X	X
<i>drummondii</i> Lehm.													
ssp. <i>bruceae</i> (Rydb.) Keck					X	X		X				X	X
ssp. <i>drummondii</i>					O			O			O	O	O
<i>flabellifolia</i> Hook. ex Torr. & Gray													
var. <i>flabellifolia</i>					X	X		X			O	X	X
<i>fruticosa</i> L.													
ssp. <i>floribunda</i> (Pursh) Elkington					X		O				X	X	X
<i>glandulosa</i> Lindl.													
ssp. <i>nevadensis</i> (S. Wats.) Keck					X	X	X	X			X	X	X
<i>gracilis</i> Dougl. ex Hook.													
var. <i>glabrata</i> (Lehm.) C.L. Hitchc.					X	X	O	X			X	X	X
var. <i>flabelliformis</i> (Lehm.) Torr. & Gray					X	X		X	X				
<i>newberryi</i> Gray							O	O	O				
<i>pectinisepta</i> Rydb.							X	X	X	X			
<i>pseudosericea</i> Rydb.					X	X		X				X	X
<i>Prunus</i>													
<i>andersonii</i> Gray					X	X	X	X		X	X	X	X
<i>emarginata</i> (Dougl. ex Hook.) Walp.					X	X					X	X	X
<i>virginiana</i> L.													
var. <i>demissa</i> (Nutt.) Sarg.					X	X				X	X		
var. <i>melanocarpa</i> (A. Nels.) Sarg.							O		O				
<i>Purshia</i>													
<i>tridentata</i> (Pursh) DC.					X	X	X	X		X	X	X	X
<i>Rosa</i>													
<i>woodsii</i> Lindl.													
var. <i>ultramontana</i> (S. Wats.) Jepson					X	X	X	X	X	X	X	X	X
<i>Rubus</i>													
<i>parviflorus</i> Nutt.													
var. <i>bifarius</i> Fern.					X						X	X	
<i>Sibbaldia</i>													
<i>procumbens</i> L.					X	X	O	X				X	X
<i>Sorbus</i>													
<i>californica</i> Greene					X					O	O	X	X
<i>Spiraea</i>													
<i>densiflora</i> Nutt. ex Torr. & Gray													
ssp. <i>densiflora</i>					X						X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
RUBIACEAE													
<i>Galium</i>													
<i>aparine</i> L.	X	X	X						X	X			
<i>bifolium</i> S. Wats.	X	X	X	X		X		X	X	X	X	X	X
<i>hypotrichium</i> Gray					X							X	
ssp. <i>ebbettense</i> Dempster & Ehrend.					X								X
ssp. <i>hypotrichium</i>		X	X	O									X X
<i>multiflorum</i> Kellogg	X	X	X	X			X	X	X	X			
<i>trifidum</i> L.													
ssp. <i>pacificum</i> Wieg.					O				O				
ssp. <i>subbiflorum</i> (Wieg.) Puff	X					X			X				
<i>triflorum</i> Michx.	X					X				X			
<i>Kelloggia</i>													
<i>galoides</i> Torr.	X	X								X	X	X	X
SALICACEAE													
<i>Populus</i>													
<i>balsamifera</i> L.					X	X	X		X	X	X		
ssp. <i>trichocarpa</i> (Torr. & Gray) Brayshaw		X	X	O			X	X	X				
<i>fremontii</i> S. Wats.	X	X				X	X	X					
<i>tremuloides</i> Michx.	X	X	X	X		X	X	X	X	X	X	X	X
<i>Salix</i>													
<i>arctica</i> Pallas	X	X				X						X	X
<i>drummondiana</i> Barratt ex Hook.	X	X				X						X	
<i>eastwoodiae</i> Heller	O					O					O O O		
<i>exigua</i> Nutt.	X	X	X	X		X		X	X	X			
<i>geyeriana</i> Anderss.													
var. <i>geyeriana</i>		X				X							X
var. <i>argentea</i> (Bebb) Schneid.	X	X	X			X			X	X	X	X	X
<i>lasiandra</i> Benth.													
var. <i>lasiandra</i>	X	X	X			X	X	X	X	X	X		
var. <i>caudata</i> (Nutt.) Sudworth	X	X				X	X	X					
<i>lasiolepis</i> Benth.	X	X	O			X	X	X					
<i>lemonii</i> Bebb	X	X				X				X	O	X	X
<i>ligulifolia</i> (Ball) Ball ex Schneid.	O					O				O	O		
<i>lutea</i> Nutt.	X	X	X			X		X		X	O	O	
<i>melanopsis</i> Nutt.	X	X	X	X		X		X		X			
<i>myrtillifolia</i> Anderss.													
var. <i>myrtillifolia</i>	O		X			X			X	O	O	O	
<i>oreastera</i> Schneid.	X	X	O			X					X	X	X
<i>planifolia</i> Pursh													
var. <i>monica</i> (Bebb) Schneid.	X	X								X	X	X	X
<i>reticulata</i> L.													
ssp. <i>nivalis</i> (Hook.) Love, Love & Kapoor	X											X	X
<i>scouleriana</i> Barratt ex Hook.	X	X							X	O	O		
SAXIFRAGACEAE													
<i>Heuchera</i>													
<i>duranii</i> Bacig.	X	X	X	X					X	X	X	X	X
<i>rubescens</i> Torr.													
var. <i>alpicola</i> Jepson	X	X	X	X					X	X	X	X	X
<i>Lithophragma</i>													
<i>glabrum</i> Nutt.	X	X	X	X					X	X	X	X	X
<i>Mitella</i>													
<i>breweri</i> Gray	X										X	X	X
<i>pentandra</i> Hook.	X										X	X	X
<i>Parnassia</i>													
<i>palustris</i> L.	X								X	X	X	X	X
var. <i>californica</i> Gray	X	X							X	X	X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>Ribes</i>													
<i>aureum</i> Pursh					X			X	X	X	O	O	
var. <i>aureum</i>					X	X	X	X		X	X	X	X
<i>cereum</i> Dougl.					X	X	X	X		X	X	X	X
<i>inebrians</i> Lindl.					X	X	X	X		X	X	X	X
<i>inerme</i> Rydb.					X	X	X	X	X	X	X	O	X
var. <i>inerme</i>					X	X	X	X	X	X	X	X	X
<i>montigenum</i> McClatchie					X	X				X	X	X	X
<i>velutinum</i> Greene					X	X	X	X		X	X	X	X
var. <i>velutinum</i>					X	X				X	X	X	X
var. <i>glanduliferum</i> (Heller) Jepson										X	X		
<i>viscosissimum</i> Pursh					O					O	O	O	
var. <i>viscosissimum</i>													
<i>Saxifraga</i>					X			X				X	X
<i>aprica</i> Greene					X								
<i>bryophora</i> Gray					X			X			O	X	X
<i>nidifica</i> Greene					X			X			X	O	X
<i>odontoloma</i> Piper					X	X		X			X	X	X
<i>oregana</i> T.J. Howell					X	X							
var. <i>sierrae</i> Coville					X	X				X		X	O
<i>tolmiei</i> Torr. & Gray													
var. <i>ledifolia</i> (Greene) Engl. & Irmisch.					X							X	X
SCROPHULARIACEAE													
<i>Antirrhinum</i>													
<i>kingii</i> S. Wats.								X			X		
<i>Castilleja</i>													
<i>applegatei</i> Fern.					X	X	X	X		X	X	X	X
var. <i>fragilis</i> (Zeile) N. Homgren					X								
var. <i>pallida</i> (Eastwood) N. Holmgren					X							X	X
<i>chromosa</i> A. Nels.					X	X	X	X		X	X	X	X
<i>exilis</i> A. Nels.							X	O	X	X			
<i>lemonii</i> Gray					X							X	X
<i>linariifolia</i> Benth. ex DC.					X	X	X	X		X	X	X	X
<i>miniata</i> Dougl. ex Benth.					X	X	X		X		X	X	X
<i>nana</i> Eastwood							X						X
<i>peirsonii</i> Eastwood					X								X
<i>pilosa</i> (S. Wats.) Rydb.					X	X	X			X	X	X	X
<i>Collinsia</i>													
<i>parviflora</i> Dougl. ex Lindl.					X	X	X	X		X	X	X	X
<i>Cordylanthus</i>										X	X		
<i>helleri</i> (Ferris) J.F. Macbride									X	X			
<i>ramosus</i> Nutt. ex Benth.											X		
ssp. <i>setosus</i> Pennell					O	X	X	X			X		
<i>Keckella</i>													
<i>breviflora</i> (Lindl.) Straw					X	X				X		X	
ssp. <i>glabrisepala</i> (Keck) Straw													
<i>Limosella</i>										O	O	O	
<i>aquatica</i> L.													
<i>Mimetanthe</i>													
<i>pilosa</i> (Benth.) Greene					X	O		X		X			
<i>Mimulus</i>													
<i>breweri</i> (Greene) Coville					X			X		X		X	X
<i>coccineus</i> Congd.					X	X							X
<i>densus</i> A.L. Grant							X	X	X		X	X	X
<i>floribundus</i> Dougl. ex Lindl.					X	X			X		X		
<i>guttatus</i> Fisch. ex DC.					X	X	X	X	X		X	X	X
<i>lewisii</i> Pursh					O			O		O	O	O	O
<i>mephiticus</i> Greene					X	X	X	X		X	X	X	X

Table 1 continued.

	AREAS				HABITATS								
	N	S	W	M	1	2	3	4	5	6	7	8	9
<i>moschatus</i> Dougl.	X	X			X				X				
<i>primuloides</i> Benth.													
var. <i>primuloides</i>	X	X	O		X	X	X	X				X	
<i>rubellus</i> Gray	X	X			X	X	X	X				X	
<i>suksdorffii</i> Gray	X	X	X	X		X	X	X	X			X	X
<i>tilingii</i> Regel	X	X	X	X	X	X	X	X	X			X	X
<i>Orthocarpus</i>													
<i>copelandii</i> Eastwood													
var. <i>cryptanthus</i> (Piper) Keck	X	X	X						X	X	X	X	
<i>hispidus</i> Benth.	X	X	O			X	O	X				X	
<i>luteus</i> Nutt.	O					O	O	O					
<i>Pedicularis</i>													
<i>attollens</i> Gray												X	X
ssp. <i>attollens</i>	X	X				X						X	X
<i>groenlandica</i> Retz.													
ssp. <i>groenlandica</i>	X					X						X	X
<i>semibarbata</i> Gray													
var. <i>semibarbata</i>	X					X						X	
<i>Penstemon</i>													
<i>bridgesii</i> Gray					X	X	X	X			X	X	X
<i>davidsonii</i> Greene					X	X							
var. <i>davidsonii</i>					X	X						X	X
<i>deustus</i> Dougl. ex Lindl.						X	X	X					
ssp. <i>deustus</i>						X	X	X				X	
<i>heterodoxus</i> Gray						X	X					X	X
var. <i>heterodoxus</i>						X	X	X				X	X
<i>humilis</i> Nutt. ex Gray						X	X	X				X	X
<i>newberryi</i> Gray									X	X			
ssp. <i>newberryi</i>						X	X					X	X
<i>procerus</i> Dougl. ex Grahm.									X			X	X
ssp. <i>formosus</i> (A. Nels.) Keck					X	X		X				X	X
<i>rubicundis</i> Keck							X		X				
<i>rydbergii</i> A. Nels.										X			
var. <i>varians</i> (A. Nels.) Cronq.					X	X	X	X	X			X	
<i>speciosus</i> Dougl. ex Lindl.					X	X	X	X	X			X	X
<i>Scrophularia</i>													
<i>desertorum</i> (Munz) R.J. Shaw					X	X	X	X		X	X	X	
<i>Verbascum</i>													
<i>thapsus</i> L.					X	X	X	X	X	X	X	X	
<i>Veronica</i>													
<i>americana</i> (Raf.) Schwein. ex Benth.					X	X	X	X	X	X	X		
<i>anagallis-aquatica</i> L.					X		O	O					
<i>beccabunga</i> L.					O		O	O					
<i>peregrina</i> L.													
ssp. <i>xalapensis</i> (H.B.K.) Pennell					X	X	O	X		O	X	X	
<i>serpyllifolia</i> L.						X	X	X	X				
ssp. <i>humifusa</i> (Dickson) Syme					X	X	X	X		X	X	X	
ssp. <i>serpyllifolia</i>					X	X	X	X	X	X	X	X	
<i>wormskjoldii</i> Roemer & Schultes													
ssp. <i>alterniflora</i> (Fern.) Pennell					X			X				X	X
SOLANACEAE													
<i>Leucophysalis</i>													
<i>nana</i> (Gray) Averett					X	X				X	X	X	X
<i>Nicotiana</i>													
<i>attenuata</i> Torr. ex S. Wats.					X	X	X	X		X	X	X	
<i>Solanum</i>													
<i>triflorum</i> Nutt.					O		O	O					



BHL

Biodiversity Heritage Library

Lavin, Matt. 1983. "FLORISTICS OF THE UPPER WALKER RIVER, CALIFORNIA AND NEVADA." *The Great Basin naturalist* 43, 93–130.

View This Item Online: <https://www.biodiversitylibrary.org/item/35769>

Permalink: <https://www.biodiversitylibrary.org/partpdf/248028>

Holding Institution

Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Sponsored by

Harvard University, Museum of Comparative Zoology, Ernst Mayr Library

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

Rights Holder: Brigham Young University

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.