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A DIRECTORY TO
DISJUNCT
AND **ENDEMIC**
PLANTS
OF CENTRAL AND
SOUTHERN IDAHO

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ERRATA

"A Directory to Disjunct and Endemic Plants of Central and Southern Idaho"

Page 6 under Ada County -- Camels Hump Park should read Camel's Back Park.

Page 7 under Galena Summit -- IN should read IN.

Page 11 under Challis -- Malcothrix torreyi should read Malacothrix torreyi.

Page 12 -- Carlington should read Darlington.

Page 17 under Lemhi -- Hymenopappus filifolus idahoensis should read
Hymenopappus filifolius idahoensis.

Page 23 -- Erigeron asperugineua should read Erigeron asperugineus.

Note: Additional information is needed to rediscover some of the species listed herein. Therefore, the author invites any comments, omissions, or additional data from other collectors.

Idaho
2
IB
no. 9

SD
12
Ia
u4
no. 9

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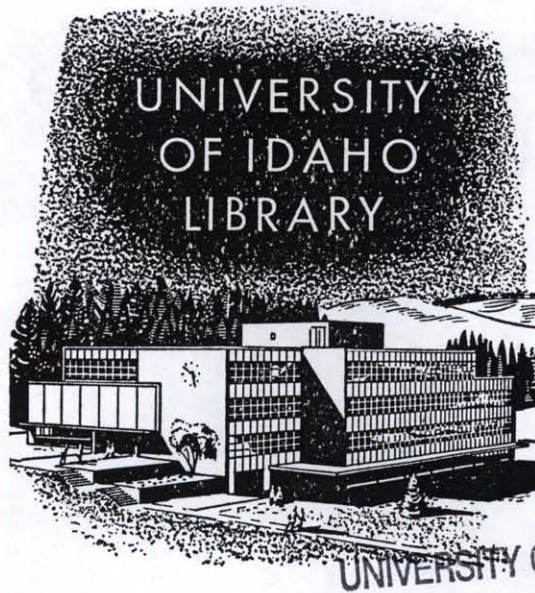
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A DIRECTORY TO DISJUNCT AND ENDEMIC PLANTS
OF CENTRAL AND SOUTHERN IDAHO ^{1/}

by

Robert Steele ^{2/}

INTRODUCTION

This directory is designed to identify locations of those plants in central and southern Idaho which have restricted distributions. Some species included herein may seem common locally yet they exhibit a notable degree of restriction when compared with modal distributions within the State and Pacific Northwest. Many of these species are endemic to Idaho and their known occurrence varies from a single collection to relatively large areas within the State. Other populations occur in Idaho as disjuncts - isolated from their main populations which may center in the Great Plains, Great Basin, Sierra Nevada, Canada or elsewhere. Idaho has a complex floristic and geologic history that has created refugia and species isolation of equal complexity. This directory does not pretend to summarily define such refugia. It merely provides some known localities where these species occur so that those interested can become acquainted with the nature of these species for their individual pursuits.

A few species listed herein might be considered rare or endangered but the directory as a whole does not constitute a list of rare or endangered species. Even with limited habitat, many of these species occur in great numbers and face no foreseeable danger of extinction. For a tentative list of rare and endangered plants of Idaho, the reader should consult Wellner and Johnson (1974).

¹The research reported here was supported by McIntire-Stennis Project #14 of the Forest, Wildlife and Range Experiment Station, University of Idaho.

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In general, this directory pertains to the portion of Idaho lying south of the east-west axis of the Salmon River between the towns of Riggins and North Fork. More precisely, this boundary follows the canyon rim along the south side of the river and extends up tributaries having strong canyon topography (Fig. 1). This boundary also separates several physiographic subsections (Arnold, 1975). At the head of the Little Salmon River Canyon, this line swings north along the physiographic boundary between the Northern Rocky Mountain and Columbia Intermontane provinces. Near Lucile, the line turns southwest to the Oregon border along the boundary separating the Wallowa-Seven Devils and Tristate Uplands physiographic sections. To the east near the town of North Fork, this boundary swings north to Montana along the separation of the Salmon Uplands and Open Northern Rockies sections.

This delineation attempts to separate vegetal features more characteristic of the north from those more common southward. Much forest north of this line includes Thuja plicata, Pinus monticola, and Taxus brevifolia. This line also approximates the southern limits of Larix lyallii, Holodiscus discolor, and the preponderance of steppe vegetation lacking Artemisia tridentata. In addition, this line approximates the northern limits in Idaho of Pinus flexilis.

Plant nomenclature used herein follows Hitchcock et al. (1955-1969). This work also provided the flowering dates given, some plant locations listed herein, and the geographical bases for including most taxa in this directory. A recent condensation of this work (Hitchcock and Cronquist, 1973) offers a few taxonomic revisions that are also included. For some species, Davis (1952) was also consulted.

The data herein are based on searches of herbaria at the University of Idaho, Idaho State University, Boise State University, Washington State

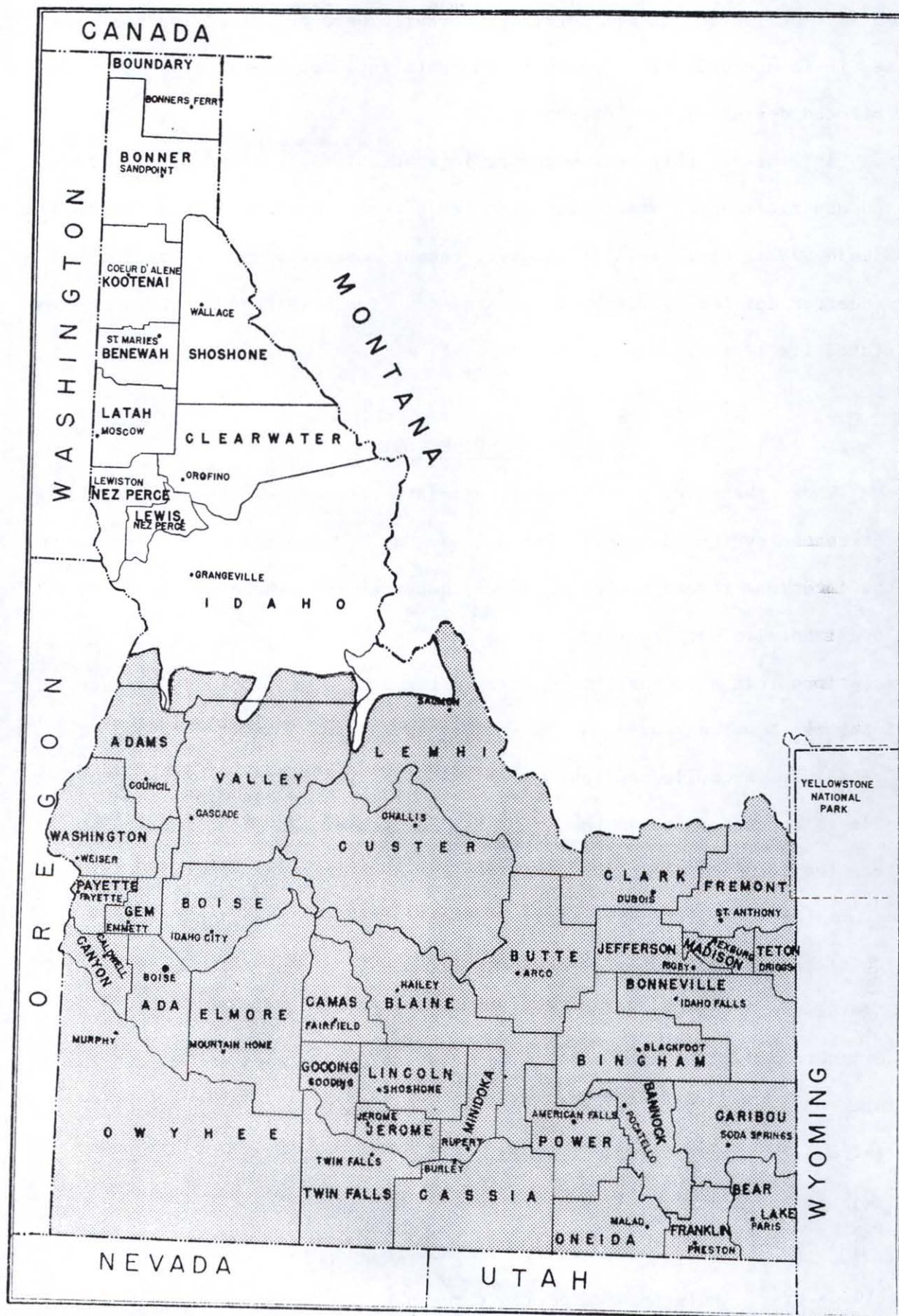


Figure 1. Area covered by this directory; detail of area boundary, counties and county seats.

University, and the Intermountain Forest and Range Experiment Station in Boise. Obviously not all pertinent herbaria were consulted and the record herein is not complete. However, the data included adequately meet the intended design of this directory.

In general, this work was done in connection with studies of disjunct and endemic species associated with red alder in northern Idaho (Roper, 1970; Steele, 1971; Graf, 1974). However, recent contributions by Dr. Douglass Henderson for Lemhi, Clark, and Custer counties have been included and are gratefully acknowledged.

USE OF THE DIRECTORY

Where possible, plant locations relate to towns or other landmarks referenced by the Idaho Official Highway Map. Where this was impractical, the locations relate to lesser known landmarks referenced mostly by U. S. Forest Service maps available to the public. In most cases, the plant locations relate to these landmarks in terms of direction and distance. For instance, New Meadows -- 4W, 5W -- Allium madidum -- 5-7 indicates that A. madidum was collected four miles and five miles west of New Meadows. The mile is understood to be the unit of length used. Usually a road or trail from the landmark coincides roughly with the direction given and one should assume that the distances refer to actual miles traveled. Only when no access is apparent for a given direction should air miles be considered. When distance and direction are unknown, either a question mark (?) will designate a lack of more precise information or the word 'near' (abbreviated nr.) will indicate proximity to the landmark. (Table 1 provides a list of other abbreviations used.) The numbers following plant names indicate the months a plant normally blooms. In the above example, Allium madidum can be found most easily from May to July (5-7). The blooming periods given apply to the species throughout its range and do not neces-

sarily pinpoint the blooming time for a particular location.

All landmarks are listed under their respective counties which are arranged alphabetically for easy reference. In some cases, the locality of the plant does not occur in the same county as that listed for the landmark. However, the landmark listed is usually a logical stopping place or headquarters for activities directed to that area.

Table 1. Abbreviations used in the directory.

A.E.C. - Atomic Energy Commission	N. - North
Cp. - Camp, Campground	N.F. -- North Fork
Cr. - Creek	nr. - Near
E. - East	Pk(s). - Peak(s)
Expt. Sta. - Experiment Station	R. - River
G.S. - Guard Station	Res. - Reservoir
hd. - Head (of drainage)	Rd. - Road
L. - Lake	R.S. - Ranger Station
L.O. - Lookout (fire tower)	S. - South
Mdw(s). - Meadow(s)	S.F. - South Fork
M.F. - Middle Fork	W. - West
Mt. - Mount, Mountain	W.F. - West Fork

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DIRECTORY TO DISJUNCT AND ENDEMIC PLANTS

<u>LANDMARK</u>	<u>SPECIFIC AREAS</u>	<u>SPECIES</u>	<u>BLOOMING PERIOD</u>
<u>ADA COUNTY</u>			
Boise	N of old Collister Schoolhouse, Bogus Basin Rd., Camels Hump Park, Polecat Gulch	<i>Allium aaseae</i>	4
Kuna	nr.	<i>Lepidium montanum</i> <i>papilliferum</i>	5-6
<u>ADAMS COUNTY</u>			
Council	3N, 25NW, Hornet Cr. G.S. 2.6N	<i>Allium tolmiei</i> <i>persimile</i>	4-7
	Cuprum Rd.	<i>Frasera montana</i>	5-7
	Weiser R. Summit	<i>Ranunculus oresterus</i>	4-5
Fruitvale	17NW, 20NW	<i>Allium tolmiei</i> <i>persimile</i>	4-7
	N	<i>Ranunculus oresterus</i>	4-5
Indian Valley	?	<i>Allium tolmiei</i> <i>persimile</i>	4-7
	3S & ½W	<i>Eragrostis pilosa</i>	?
	½W	<i>Panicum dichotomiflorum</i>	5-9
Mesa	Mesa Orchard	<i>Penstemon payettensis</i>	5-8
New Meadows	4W, 5W	<i>Allium madidum</i>	5-7
	15S	<i>Carex eurycarpa</i>	5-7
	1N, 4W, 6W, SW	<i>Ranunculus oresterus</i>	4-5
	?	<i>Trifolium microdon</i>	4-6
No Business L.O.	?	<i>Phlox austromontana</i>	6-7
<u>BANNOCK COUNTY</u>			
Downy	10S	<i>Cirsium subniveum</i>	6-8
McCammon	6 above	<i>Castilleja longispica</i>	6-7
Pocatello	Bannock Cr., Mink Cr. 5S	<i>Carex tumulicola</i> <i>Lepidium montanum</i> <i>papilliferum</i>	5-6 5-6

BEAR LAKE COUNTY

Bloomington L.	?	Cheilanthes gracillima	-
	?	Syntheris pinnatifida pinnatifida	6-7
Montpelier	SE-nr. Alton	Castilleja longispica	6-7

BINGHAM COUNTY

Fort Hall	Fort Hall Bottoms ?	Cirsium magnificum Lepidium montanum papilliferum	7-8 5-6
Wapello	4E	Astragalus ceramicus	5-7

BLAINE COUNTY

Alturas L.	W shore	Allium simillimum	5-7
	?	Castilleja covilleana	6-8
	?	Cheilanthes gracillima	-
	above	Cirsium subniveum	6-8
	NW	Draba argyraea	6-8
	above	Epilobium obcordatum	7-8
	above	Erigeron coulteri	7-8
	?	Erigeron evermannii	7-8
	?	Haplopappus aberrans	7-8
	5NW	Lomatium idahoense	6-7
nr. in bottomland		Lonicera caerulea	6-7
	?	Mertensia campanulata	6-7
Carey	9E, 10E	Antennaria arcuata	?
Clyde	W	Draba oreibata	6-7
Galena Summit	?	Castilleja covilleana	6-8
	E-nr. Salmon R.	Castilleja longispica	6-7
	?	Chionophila tweedyi	6-8
	IN	Erigeron asperugineus	7-8
	?	Lomatium idahoense	6-7
	?	Penstemon laxus	6-7
?		Syntheris pinnatifida canescens	6-8
Galena	Senate Cr.	Erigeron coulteri	7-8
Hailey	3SW	Allium simillimum	5-7

BLAINE COUNTY (cont.)

Ketchum	18N	<i>Allium simillimum</i>	5-7
	11N, 22W	<i>Castilleja covilleana</i>	6-8
	10.7NE	<i>Cirsium subniveum</i>	6-8
	12N-open mdw. nr. R.	<i>Haplopappus insecticruris</i>	7-8
	22W, 28W	<i>Lomatium idahoense</i>	6-7
	17N, NE-nr. Park Cr.	<i>Mertensia campanulata</i>	6-7
	?	<i>Penstemon laxus</i>	6-7
Muldoon	?	<i>Artemisia papposa</i>	5-6
Norton Pk.	?	<i>Erigeron asperugineus</i>	7-8
Picabo	E-sandy flats nr.	<i>Astragalus oniciformis</i>	5-6
		<i>Lithophragma tenella thompsonii</i>	5-6
Upper Norton L.	?	<i>Draba argyraea</i>	6-8

BOISE COUNTY

Banks	nr.	<i>Astragalus adanus</i>	5-6
Crouch	N-Silver Cr. Summit	<i>Castilleja covilleana</i>	6-8
	N-Silver Cr. Summit	<i>Chaenactis evermannii</i>	6-8
Deer Park R.S.	SW-Big Owl Cr.	<i>Chaenactis evermannii</i>	6-8
	5½W	<i>Cirsium subniveum</i>	6-8
	5W	<i>Cryptantha simulans</i>	6-7
	?	<i>Draba sphaerocarpa</i>	6-8
	1½W	<i>Erigeron coulteri</i>	7-8
	1½W	<i>Phacelia idahoensis</i>	5-7
Grandjean	3NE, 8W	<i>Castilleja covilleana</i>	6-8
	?	<i>Cheilanthes gracillima</i>	-
	E	<i>Draba argyraea</i>	6-8
Idaho City	N, 10S	<i>Frasera montana</i>	5-7
	E-Logging Gulch, 9SE, Bald Mt.	<i>Penstemon payettensis</i>	5-8
	11SE	<i>Phlox austromontana</i>	6-7
Lowman	6S	<i>Allium simillimum</i>	5-7
	15W	<i>Astragalus adanus</i>	5-6
	6S	<i>Castilleja covilleana</i>	6-8
	nr., N.F. Elkhorn Cr.	<i>Erigeron coulteri</i>	7-8
	5W	<i>Frasera montana</i>	5-7

BOISE COUNTY (cont.)

Lowman (cont.)	30E-rock crevices N	Haplopappus aberrans Penstemon payettensis	7-8 6-8
Placerville	S-Granite Cr.	Castilleja covilleana	6-8

BONNEVILLE COUNTY

Idaho Falls	10SE, 10SW on lava	Oryzopsis webberi	5-7
Swan Valley	5W of Snake R. Bridge	Cirsium subniveum	6-8

BUTTE COUNTY

A.E.C.	between monument 5 & 6	Astragalus ceramicus	5-7
Arco	?-desert	Cirsium subniveum	6-8
Craters of Moon	W entrance	Allium simillimum	5-7
Howe	10NE	Astragalus ceramicus	5-7

CAMAS COUNTY

Corral	?	Haplopappus insecticruris	7-8
Fairfield	10E 4SSE-Camas Cr. 16NW 14SE, N-Soldier Mt.	Astragalus adanus Haplopappus insecticruris Mertensia campanulata Phacelia minutissima	5-6 7-8 6-7 7
Hill City	15W	Ranunculus oresterus	4-5
Soldier	9N 3E 11N-Basalt Cr. 7N	Allium simillimum Astragalus adanus Mertensia campanulata Penstemon laxus	5-7 5-6 6-7 6-7

CANYON COUNTY

Nampa	nr.	Lepidium montanum papilliferum	5-6
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CANYON COUNTY (cont.)

New Plymouth	nr.	<i>Lepidium montanum</i> <i>papilliferum</i>	5-6
Parma	?	<i>Lepidium montanum</i> <i>papilliferum</i>	5-6

CARIBOU COUNTY

None

CASSIA COUNTY

Albion	7S	<i>Cirsium subniveum</i>	6-8
Burley	W	<i>Cryptantha scoparia</i>	5-7
Hanson	25S-Rock Cr. R.S.	<i>Penstemon payettensis</i>	5-8
Mt. Harrison	nr.-on cliff	<i>Cymopterus nivalis</i>	7-8
	?	<i>Machaeranthera laetivirens</i>	7
	?	<i>Phlox austromontana</i>	6-7
	?	<i>Thlaspi fendleri</i> <i>idahoense</i>	5-8
Oakley	19SW	<i>Astragalus adanus</i>	5-6
	13SE	<i>Cirsium subniveum</i>	6-8
	22SW	<i>Phacelia idahoensis</i>	5-7
Sublette	17E	<i>Cirsium subniveum</i>	6-8

CLARK COUNTY

Blue Dome	10E	<i>Cuscuta denticulata</i>	5-7
	12SW-limestone	<i>Kelseya uniflora</i>	5-7
	12SW-limestone	<i>Lesquerella carinata</i>	6-7
	2NW	<i>Oryzopsis swallenii</i>	6-7
	12SW	<i>Penstemon aridus</i>	6-7
Dubois	nr. U.S. Expt. Sta.	<i>Oryzopsis webberi</i>	5-7
Kilgore	5E	<i>Castilleja longispica</i>	6-7

CUSTER COUNTY

Castle Pk.	Upper Frog L.	<i>Anemone drummondii</i> <i>drummondii</i>	6-8
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CUSTER COUNTY (cont.)

Castle Pk. cont.	E-on next Pk.	<i>Epilobium obcordatum</i>	7-8
	nr.	<i>Erigeron coulteri</i>	7-8
Challis	30N-Morgan Cr.	<i>Allium simillimum</i>	5-7
	9N, 4S clay & shale	<i>Astragalus amblytropis</i>	6
	12N	<i>Carex eurycarpa</i>	5-7
	30N, NW-Twin Pks.	<i>Castilleja covilleana</i>	6-8
	NW of Twin Pks. above Snowslide Cr.	<i>Chaenactis evermannii</i>	7-8
	20N, 14W	<i>Chionophila tweedyi</i>	6-8
	N-nr. Morgan Cr.	<i>Chrysothamnus parryi</i>	8
	9N, 7SW, 2W, across R.	<i>Cryptantha salmonensis</i>	6-8
	10N	<i>Cryptantha scoparia</i>	5-7
	4S-gravel slide	<i>Eatonella nivea</i>	5-7
	9S-shale cliff E of R., N-Morgan Cr.	<i>Elymus ambiguus salmonis</i>	5-7
	nr., 9N, N-Morgan Cr., 10S, across R.	<i>Enceliopsis nudicaulis</i>	5-8
	1SE	<i>Eriastrum sparsiflorum</i> <i>wilcoxii</i>	5-8
	14W	<i>Erigeron asperugineus</i>	7-8
	40NW, 12W, 23W	<i>Erigeron coulteri</i>	7-8
	NW-nr. Twin Pks. L.O.	<i>Erigeron evermannii</i>	7-8
	5SE, across R.	<i>Gilia leptomeria</i>	5-7
	N-Morgan Cr., NW- Bear Cr. Rd.	<i>Hymenopappus filifolius</i> <i>idahoensis</i>	5-7
	across R.	<i>Langloisia setosissima</i>	5-7
	10N, across R.	<i>Malcothrix torreyi</i>	6-7
	N-Morgan Cr.	<i>Phlox austromontana</i>	6-7
12W	<i>Penstemon payettensis</i>	5-8	
8S-loose shale	<i>Thelypodium repandum</i>	5-6	
Chilly	25SW-Boulder Cr.	<i>Carex subnigricans</i>	7-8
	25SW-Wild Horse Cr.	<i>Erigeron asperugineus</i>	7-8
Clayton	10W	<i>Astragalus amblytropis</i>	6
	E-nr. R.	<i>Chrysothamnus parryi</i>	8
	10E	<i>Elymus ambiguus salmonis</i>	5-7
	E-nr. R.	<i>Enceliopsis nudicaulis</i>	5-8
	20E-Spar Canyon	<i>Oxytropis besseyi</i> <i>salmonensis</i>	6-7
	12SE	<i>Phacelia incana</i>	7
Custer	11N	<i>Phacelia idahoensis</i>	5-7
	12N	<i>Phlox austromontana</i>	6-7

CUSTER COUNTY (cont.)

Carlington	10S-talus	<i>Phacelia incana</i>	7
Dickey	8N	<i>Erigeron asperugineus</i>	7-8
	NE-Doublespring Pass	<i>Lesquerella carinata</i>	6-7
	7N-limestone knolls	<i>Phacelia incana</i>	7
Feltham L.O.	NE slope of	<i>Chionophila tweedyi</i>	6-8
Leslie	10N-Pass Cr. Gorge	<i>Astragalus amnis-amissi</i>	6-7
	10N-Pass Cr. Gorge	<i>Chamaebatiaria millifolium</i>	6-8
	10N-Pass Cr. Gorge	<i>Draba oreibata</i>	6-7
	10N-Pass Cr. Gorge	<i>Kelseya uniflora</i>	5-7
	10N-Pass Cr. Gorge	<i>Ribes hendersonii</i>	6-7
Mackay	4W	<i>Cryptantha salmonensis</i>	6-8
	SW-3 up Anelope Cr.	<i>Kelseya uniflora</i>	5-7
	12W	<i>Oryzopsis swallenii</i>	6-7
Mt. Borah	nr.	<i>Caltha leptosepala</i>	
		<i>sulfurea</i>	5-8
	?	<i>Castilleja covilleana</i>	6-8
	Cirque at NW base	<i>Cymopterus nivalis</i>	7-8
	5NW-Rock Cr.	<i>Kelseya uniflora</i>	5-7
Mt. Hyndman	?	<i>Erigeron asperugineus</i>	7-8
	?	<i>Erigeron coulteri</i>	7-8
Mt. Leatherman Pass	hd. of W.F.		
	Pahsimeroi R.	<i>Erigeron asperugineus</i>	7-8
	just W. of hd. of W.F.	<i>Gentiana tenella</i>	7-8
	Pahsimeroi R.	<i>Salix farriae</i>	?
Obsidian	11SW	<i>Draba argyraea</i>	6-8
	10WSW	<i>Draba sphaerocarpa</i>	6-8
Pinyon Pk.	nr. L.O.-rocky crevices	<i>Carex straminiformis</i>	7-8
Railroad Ridge	?	<i>Astragalus vexilliflexus</i>	
		<i>nubilus</i>	6-7
	Livingston Mine	<i>Carex proposita</i>	?
	?	<i>Castilleja covilleana</i>	6-8
	S-Boulder Cr.	<i>Castilleja longispica</i>	6-7
	Livingston Mine	<i>Chionophila tweedyi</i>	6-8
	Livingston Mine	<i>Machaeranthera laetivirens</i>	7
	Livingston Mine	<i>Syntheris pinnatifida</i> <i>canescens</i>	6-8

CUSTER COUNTY (cont.)

Redfish L.	?	<i>Epilobium obcordatum</i>	7-8
Robinson Bar	?	<i>Frasera montana</i>	5-7
Ryan Pk.	?	<i>Allium simillimum</i>	5-7
	?	<i>Carex subnigricans</i>	7-8
	?	<i>Lomatium idahoense</i>	6-7
Stanley	9S	<i>Astragalus adanus</i>	5-6
	15NW	<i>Castilleja longispica</i>	6-7
	25NW, 35NW, W of	<i>Erigeron coulteri</i>	7-8
	5N, 12NE, 6W	<i>Frasera montana</i>	5-7
	W-Bull Trout L.	<i>Haplopappus greenei</i>	7-8
	25NW-Beaver Cr.	<i>Lomatium idahoense</i>	6-7
	W-Iron Cr. Cp.	<i>Lonicera caerulea</i>	6-7
	10NW	<i>Penstemon payettensis</i>	5-8
Stanley L.	3SW	<i>Allium simillimum</i>	5-7
	3½W	<i>Draba sphaerocarpa</i>	6-8
	?	<i>Castilleja covilleana</i>	6-8
	nr.	<i>Chaenactis evermannii</i>	6-8
	?	<i>Chionophila tweedyi</i>	6-8
Sunbeam	N-Loon Cr. Pass	<i>Chionophila tweedyi</i>	6-8
	N-nr. mouth of Yankee F.	<i>Cirsium subniveum</i>	6-8
	N-Loon Cr. Pass	<i>Erigeron asperugineus</i>	7-8
	N-Yankee Fork	<i>Phacelia idahoensis</i>	5-7
Toxoway L.	?	<i>Chionophila tweedyi</i>	6-8
	?	<i>Epilobium obcordatum</i>	7-8
Wharton Gulch	?	<i>Enceliopsis nudicaulis</i>	5-8
?	?-along Salmon R.	<i>Coryphantha missouriensis</i>	6-7

ELMORE COUNTY

Atlanta	4S, above	<i>Allium simillimum</i>	5-7
	23W	<i>Astragalus adanus</i>	5-6
	S of	<i>Carex eurycarpa</i>	5-7
	10W	<i>Castilleja covilleana</i>	6-8
	5E	<i>Chaenactis evermannii</i>	6-8
	10S-Bald Mt., 10W	<i>Chionophila tweedyi</i>	6-8

ELMORE COUNTY (cont.)

Atlanta cont.	32W	<i>Cirsium subniveum</i>	6-8
	10S, 4W, 10W	<i>Draba argyraea</i>	6-8
	18W	<i>Draba sphaerocarpa</i>	6-8
	10S, Grey Lock Mt. above	<i>Epilobium obcordatum</i>	7-8
	above	<i>Erigeron coulteri</i>	7-8
		<i>Erigeron evermannii</i>	7-8
Dixie	7E	<i>Allium simillimum</i>	5-7
	5S	<i>Astragalus adanus</i>	5-6
	E-nr.	<i>Mertensia campanulata</i>	6-7
Dutch Cr. G.S.	S-Browns Cr. Trail	<i>Chaenactis evermannii</i>	6-8
	1W	<i>Draba sphaerocarpa</i>	6-8
Featherville	4S	<i>Allium simillimum</i>	5-7
	10W	<i>Castilleja covilleana</i>	6-8
	10W	<i>Chionophila tweedyi</i>	6-8
	10W	<i>Lomatium idahoense</i>	6-7
	S-Price Cr.	<i>Penstemon laxus</i>	6-7
	S-Price Cr.	<i>Penstemon payettensis</i>	5-8
	10W	<i>Phlox austromontana</i>	6-7
Glenns Ferry	S	<i>Lepidium montanum</i> <i>papilliferum</i>	5-6
Hammett	N-nr.	<i>Lepidium montanum</i> <i>papilliferum</i>	5-6
Little Camas Res.	2N	<i>Artemisia papposa</i>	5-6
Mt. Home	NW-Blacks Cr.	<i>Astragalus adanus</i>	5-6
	37NE	<i>Cirsium subniveum</i>	6-8
	10S, SW	<i>Lepidium montanum</i> <i>papilliferum</i>	5-6
	N-Danskin L.O. nr. pond	<i>Mertensia campanulata</i>	6-7
Pine	4N	<i>Allium simillimum</i>	5-7
	10W	<i>Astragalus adanus</i>	5-6
	4N	<i>Chaenactis evermannii</i>	6-8
	4N, N of Lester Cr.		
	G.S.	<i>Hydrophyllum occidentale</i>	4-7
	4N	<i>Lomatium idahoense</i>	6-7
	SW-mdw.	<i>Mertensia campanulata</i>	6-7
2N, 10E	<i>Polygonum polycnemoides</i>	6-8	

ELMORE COUNTY (cont.)

Rocky Bar	3N	<i>Chaenactis evermannii</i>	6-8
	N-Elk Cr. Summit	<i>Frasera montana</i>	5-7
	N-Elk Dr. Summit	<i>Penstemon laxus</i>	6-7
Smith Prairie	Prairie-1W	<i>Frasera montana</i>	5-7
	hd. of Smith Cr.	<i>Pellaea bridgesii</i>	-
	?	<i>Penstemon laxus</i>	6-7
Trinity Lakes	?	<i>Allium simillimum</i>	5-7
	?	<i>Allium validum</i>	6-8
	?	<i>Castilleja covilleana</i>	6-8
	?	<i>Chionophila tweedyi</i>	6-8
	?	<i>Phlox austromontana</i>	6-7

FRANKLIN COUNTY

Preston	4W	<i>Oenothera pallida</i> <i>idahoensis</i>	5-7
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FREMONT COUNTY

Ashton	Ashton Dam	<i>Castilleja longispica</i>	6-7
	Sand Mt.	<i>Oenothera pallida</i> <i>idahoensis</i>	5-7
Macks Inn	2W on rd. to Kilgore	<i>Castilleja longispica</i>	6-7
Ponds Resort	?	<i>Anagallis arvensis</i>	5-6
	S	<i>Castilleja longispica</i>	6-7

GEM COUNTY

Emmett	5S-Freezeout Hill	<i>Allium aaseae</i>	4
	10W, 11½W	<i>Cirsium magnificum</i>	7-8
	nr.	<i>Lepidium montanum</i> <i>papilliferum</i>	5-6

GOODING COUNTY

Bliss	Bliss Hill	<i>Astragalus adanus</i>	5-6
Gooding	22N	<i>Artemisia papposa</i>	5-6
Wendell	nr.	<i>Cryptantha scoparia</i>	5-7

IDAHO COUNTY
(South of Salmon R.)

Big Horn Crags	Heart L.	<i>Campanula scabrella</i>	6-8
	?	<i>Epilobium obcordatum</i>	7-8
Burgdorf	3E, 7½W	<i>Allium simillimum</i>	5-7
	E-nr. Secesh R.	<i>Lonicera caerulea</i>	6-7
Pollock	E	<i>Pinus flexilis</i>	5-6
Seven Devils	Heavens Gate, Sheep Cr.	<i>Chionophila tweedyi</i>	6-8
	Dry Diggins L.O., Hibbs Cow Cp.	<i>Penstemon payettensis</i>	5-8
	7 Devils Cp., Heavens Gate	<i>Phacelia idahoensis</i>	5-7
	Heavens Gate	<i>Phlox austromontana</i>	6-7
	? open ridge	<i>Pinus flexilis</i>	5-6
Warren	SW-hd. of Long Gulch	<i>Allotropa virgata</i>	7-8
	Warren Summit	<i>Calamagrostis tweedyi</i>	6-8

JEFFERSON COUNTY

None

JEROME COUNTY

Eden	N	<i>Cryptantha scoparia</i>	5-7
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LEMHI COUNTY

Bannock Pass	1W	<i>Penstemon lemhiensis</i>	6-7
Cobalt	nr. Panther Cr.	<i>Erigeron coulteri</i>	7-8
	nr. mouth of Panther Cr.	<i>Lomatium idahoense</i>	6-7
Ellis	9E	<i>Astragalus amblytropis</i>	6
	nr., 9E on rhyolite	<i>Cryptantha salmonensis</i>	6-8
	?	<i>Enceliopsis nudicaulis</i>	5-8

LEMHI COUNTY (cont.)

Gibbonsville	2N	Castilleja covilleana	6-8
Gilmore	15S-Forested slope	Aquilegia coerulea coerulea	6-8
	6S-alpine summits	Anemone drummondii drummondii	6-8
	6S-timberline	Castilleja covilleana	6-8
	6S-alpine summits	Draba oreibata	6-7
	S-Meadow L.	Erigeron asperugineus	7-8
	6S	Gilia spicata	6-8
	S-hd. of Spring Cr. Canyon	Kelseya uniflora	5-7
	S-hd. of Spring Cr. Canyon	Lesquerella carinata	6-7
	6S-alpine summits	Phlox albomarginata	5-7
	6E	Phlox austromontana	6-7
	8SE	Ribes hendersonii	6-7
	Leadore	12SW-Eight Mile Cr. 4W	Allium simillimum
12SW, 15W		Astragalus scaphoides	5-7
		Caltha leptosepala sulfurea	5-8
12SW		Chionophila tweedyi	6-8
15W-subalpine slopes		Phacelia lyallii	7-8
12SW-alpine		Phlox austromontana	6-7
Lemhi	1S	Astragalus scaphoides	5-7
	W-Hayden Cr.	Hymenopappus filifolius idahoensis	5-7
Meyers Cove	NE-Silver Cr.	Frasera montana	5-7
	NE-Silver Cr.	Penstemon payettensis	5-8
Nicholia	10W-limestone summits	Anelsonia eurycarpa	6-7
	10W-quartzitic talus	Aquilegia coerulea coerulea	6-8
	10W-limestone slopes	Draba oreibata	6-7
	10W-limestone slopes	Kelseya uniflora	5-7
Salmon	NE-Stein Mt.	Collomia debilis camporum	6-8
	15S	Gilia leptomeria	5-7
	nr.	Physaria didymocarpa lyrata	6-8
Yellow Jacket Mts.	?	Castilleja covilleana	6-8
	?	Chionophila tweedyi	6-8
	?	Erigeron coulteri	7-8
?	?	Lithophragma tenella thompsonii	5-6

LINCOLN COUNTY

None

MADISON COUNTY

Lorenzo	W	Astragalus ceramicus	5-7
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MINIDOKA COUNTY

None

ONEIDA COUNTY

Malad	11SE	Oenothera pallida	
		idahoensis	5-7
	7SE	Physaria didymocarpa	
		lyrata	6-8

OWYHEE COUNTY

Bruneau	12S, 5W	Astragalus camptopus	?
Grandview	5S, 10S	Astragalus camptopus	?
Juniper Mt.	?	Cryptantha propria	4-6
Kena Plateau	? (May be Kuna Butte, Ada County)	Artemisia papposa	5-6
Marsing	26SW-2NE & 4 NE of State line-moist road cut	Phacelia lutea calva	5-7
Mud Flat	5SW-above Nip & Tuck	Artemisia papposa	5-6
Murphy	3N, 1S, 2W	Astragalus camptopus	?
Silver City	?	Allium simillimum	5-7
	3SW	Carex sitchensis	5-8
	NW-Dewey Mine	Cryptantha simulans	6-7

OWYHEE COUNTY (cont.)

South Mt.	S-Squaw Cr.	<i>Ivesia baileyi</i>	?
	SW- N.F. Owyhee R.	<i>Trifolium microdon</i>	4-6
Triangle	toward Riddle	<i>Phlox austromontana</i>	6-7

PAYETTE COUNTY

None

POWER COUNTY

None

TETON COUNTY

None

TWIN FALLS COUNTY

Hanson	nr.	<i>Astragalus ceramicus</i>	5-7
Hollister	NW	<i>Cryptantha scoparia</i>	5-7
Rogerson	E	<i>Astragalus adanus</i>	5-6
?	?	<i>Ivesia baileyi</i>	?

VALLEY COUNTY

Bear Valley	Elk Cr. R.S., Poker Mdws. hd. of Bear Valley Cr. Daggar Cr.	<i>Allium simillimum</i> <i>Erigeron coulteri</i> <i>Lonicera caerulea</i>	5-7 7-8 6-7
Bear Valley L.O.	?	<i>Haplopappus greenei</i>	7-8
Cascade	1N, 10E, E-Clear Cr. ?	<i>Penstemon payettensis</i> <i>Phacelia idahoensis</i>	5-8 5-7
Deadwood Res.	?	<i>Erigeron coulteri</i>	7-8

VALLEY COUNTY (cont.)

Donnelly	E-Red Ridge ?	<i>Penstemon payettensis</i> <i>Phacelia idahoensis</i>	5-8 5-7
Gold Fork L.O.	? nr.	<i>Draba sphaerocarpa</i> <i>Haplopappus greenei</i>	6-8 7-8
Landmark	10S	<i>Allium simillimum</i>	5-7
McCall	1½N, 2W, 3W Brundage Mt. above Lake Fork Cr. 9E ? ? Brundage Mt., Hazard L. ESE-Boulder L. 1NE, 1W Hazard L., Rapid Cr., W of Brundage Res. Brundage Mt. 2W Hazard L.	<i>Allium madidum</i> <i>Allium simillimum</i> <i>Bolandra oregana</i> <i>Carex eurycarpa</i> <i>Castilleja covilleana</i> <i>Castilleja longispica</i> <i>Cheilanthes gracillima</i> <i>Chionophila tweedyi</i> <i>Frasera montana</i> <i>Pellaea bridgesii</i> <i>Penstemon payettensis</i> <i>Ranunculus oresterus</i> <i>Saxifraga tolmiei</i> <i>ledifolia</i>	5-7 5-7 5-7 5-7 6-8 6-7 - 6-8 5-7 - 5-8 4-5 7-8
Smiths Ferry	?	<i>Phacelia idahoensis</i>	5-7
Snowbank Summit	E of Potters Pond ?	<i>Chionophila tweedyi</i> <i>Phlox austromontana</i>	6-8 6-7
South Fork G.S.	E-Elk Summit E-Elk Summit E-Elk Summit	<i>Allium simillimum</i> <i>Castilleja covilleana</i> <i>Chionophila tweedyi</i>	5-7 6-8 6-8
Warm L.	nr. 6W	<i>Lonicera caerulea</i> <i>Phacelia idahoensis</i>	6-7 5-7
Whitehawk L.O.	nr.	<i>Haplopappus greenei</i>	7-8
Yellow Pine	E-Monumental Summit NE-Profile Cr.	<i>Chionophila tweedyi</i> <i>Erigeron coulteri</i>	6-8 7-8
?	?	<i>Castilleja oresbia</i>	5-6
?	?	<i>Polygonum newberryi</i> <i>newberryi</i>	6-8

WASHINGTON COUNTY

Midvale	? ?	<i>Penstemon payettensis</i> <i>Ranunculus oresterus</i>	5-8 4-5
Weiser	Weiser Flats	<i>Fragrostis pilosa</i>	?

SPECIES INDEX TO COUNTIES

- Allium aaseae (E)* Ada, Gem
madidum (E) Adams, Valley
simillimum (E) Blaine, Boise, Butte, Camas, Elmore, Idaho, Lemhi,
Owyhee, Valley
tolmiei persimile (E) Adams
validum (D) Elmore
- Allotropa virgata (D) Idaho
- Anagallis arvensis (D) Fremont
- Anelsonia eurycarpa (D) Lemhi
- Anemone drummondii drummondii (D) Custer, Lemhi
- Antennaria arcuata (E) Blaine
- Aquilegia coerulea coerulea (D) Lemhi
- Artemisia papposa (E) Blaine, Elmore, Gooding, Owyhee
- Astragalus adanus (E) Boise, Camas, Cassia, Custer, Elmore, Gooding,
Twin Falls
amblytropis (E) Custer, Lemhi
amnis-amissi (E) Custer
camptopus (E) Owyhee
ceramicus (E) Bingham, Butte, Madison, Twin Falls
onciformis (E) Blaine
scaphoides (E) Lemhi
vexilliflexus nubilus (E) Custer
- Bolandra oregana (D) Valley
- Calamagrostis tweedyi (D) Idaho
- Caltha leptosepala sulfurea (E) Custer, Lemhi

* D = *disjunct*; E = *endemic*

Campanula scabrella (D) Idaho

Carex eurycarpa (D) Adams, Custer, Elmore, Valley

proposita (D) Custer

sitchensis (D) Owyhee

straminiformis (D) Custer

subnigricans (D) Custer

tumulicola (D) Bannock

Castilleja covilleana (E) Blaine, Boise, Custer, Elmore, Lemhi, Valley

longispica (E) Bannock, Bear Lake, Glaine, Clark, Custer,
Fremont, Valley

oresbia (E) Valley

Chaenactis evermannii (E) Boise, Custer, Elmore

Chamaebatiaria millifolium (D) Custer

Cheilanthes gracillima (D) Bear Lake, Blaine, Boise, Valley

Chionophila tweedyi (E) Blaine, Custer, Elmore, Idaho, Lemhi, Valley

Chrysothamnus parryi (E) Custer

Cirsium magnificum (E) Bingham, Gem

subniveum (E) Bannock, Blaine, Boise, Bonneville, Butte, Cassia,
Custer, Elmore

Collomia debilis camporum (E) Lemhi

Coryphantha missouriensis (D) Custer

Cryptantha propria (E) Owyhee

salmonensis (E) Custer, Lemhi

scoparia (E) Cassia, Custer, Gooding, Jerome, Twin Falls

simulans (D) Boise, Owyhee

- Cuscuta denticulata (D) Clark
- Cymopteris nivalis (E) Cassia, Custer
- Draba argyraea (E) Blaine, Boise, Custer, Elmore
- oreibata (E) Blaine, Custer, Lemhi
- sphaerocarpa (E) Boise, Custer, Elmore, Valley
- Elymus ambiguus salmonis (E) Custer
- Enceliopsis nudicaulis (D) Custer, Lemhi
- Epilobium obcordatum (D) Blaine, Custer, Elmore, Idaho
- Eatonella nivea (D) Custer
- Eragrostis pilosa (D) Adams, Washington
- Eriastrum sparsiflorum wilcoxii (D) Custer
- Erigeron asperuginea (E) Blaine, Custer, Lemhi
- coulteri (D) Blaine, Boise, Custer, Elmore, Lemhi, Valley
- evermannii (E) Blaine, Custer, Elmore
- Frasera montana (E) Adams, Boise, Custer, Elmore, Hemhi, Valley
- Gentiana tenella (D) Custer
- Gilia leptomeria (D) Custer, Lemhi
- spicata (D) Lemhi
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- greenei (D) Valley
- insecticruris (E) Blaine, Camas
- Hydrophyllum occidentale (D) Elmore
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- Langloisia setosissima (D) Custer
- Lepidium montanum pappilliferum (E) Ada, Bannock, Bingham, Canyon, Elmore, Gem

- Lesquerella carinata (E) Clark, Custer, Lemhi
- Lithophragma tenella thompsonii (D) Blaine, Lemhi
- Lomatium idahoense (E) Blaine, Custer, Elmore, Lemhi
- Lonicera caerulea (D) Blaine, Custer, Idaho, Valley
- Machaeranthera laetivirens (E) Cassia, Custer
- Malacothrix torreyi (D) Custer
- Mertensia campanulata (E) Blaine, Camas, Elmore
- Oenothera pallida idahoensis (E) Franklin, Fremont, Oneida
- Oryzopsis swallenii (E) Clark, Custer
- webberi (D) Bonneville, Clark
- Oxytropis besseyi salmonensis (E) Custer
- Panicum dichotomiflorum (D) Adams
- Pellaea bridgesii (D) Elmore, Valley
- Penstemon aridus (E) Clark
- laxus (E) Blaine, Camas, Elmore
- lemhiensis (E) Lemhi
- payettensis (E) Adams, Boise, Cassia, Custer, Elmore, Idaho,
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- Phacelia idahoensis (E) Boise, Cassia, Custer, Idaho, Valley
- incana (D) Custer
- lyallii (E) Lemhi
- lutea calva (E) Owyhee
- minutissima (E) Camas
- Phlox albomarginata (E) Lemhi
- austromontana (D) Adams, Boise, Cassia, Custer, Elmore, Idaho,
Lemhi

Physaria didymocarpa lyrata (E) Lemhi, Oneida

Pinus flexilis (D) Idaho

Polygonum newberryi newberryi (D) Valley

polycnemoides (D) Elmore

Ranunculus oresterus (E) Adams, Camas, Valley, Washington

Ribes hendersonii (E) Custer, Lemhi

Salix farriae (D) Custer

Saxifraga tolmiei ledifolia (D) Valley

Syntheris pinnatifida canescens (E) Blaine, Custer

pinnatifida pinnatifida (E) Bear Lake

Thelypodium repandum (E) Custer

Thlaspi fendleri idahoense (D) Cassia

Trifolium microdon (D) Adams, Owyhee

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