

# Rare Plants in Riparian Areas of the Pacific Northwest Region

The following tables list rare plants known or expected to occur in riparian reserves and riparian habitat conservation areas in the Pacific Northwest Region of the Forest Service. The tables include 360 taxa: 283 vascular plants, 39 bryophytes, 19 fungi, and 19 lichens.

Table 1. Bryophytes analyzed..... 1  
 Table 2. Fungi species analyzed ..... 5  
 Table 3. Lichens analyzed ..... 7  
 Table 4. Vascular plant species analyzed ..... 9

The following notes correspond with the numbers in the table headings:

1. NatureServe Ranks: G=Global, S=State; 1=Critically imperiled, 2=Imperiled, 3=Vulnerable, 4=Apparently Secure, 5=Secure; H=Historic, Q=Questionable
2. SEN=Forest Service Sensitive; STR=Forest Service Strategic
3. Riparian project area is defined as water and 300 feet on either side of water within Pacific Northwest Region
4. MIIH=May impact individuals and habitat, but will not likely contribute to a trend towards Federal listing or loss of viability to the population or species.

**Table 1. Bryophytes analyzed**

Scientific Name	Type of Bryophyte	NatureServe Ranks (Global/Oregon/Washington) <sup>1</sup>	Conservation Status <sup>2</sup>	Known occurrence in Riparian Project Area <sup>3</sup>	Habitat	Effects Determinations for Direct and Indirect Effects to Riparian Plants <sup>4</sup>
<i>Anastrophyllum minutum</i>	Liverwort	G5/—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Anthelia julacea</i>	Liverwort	G3G4/—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Barbilophozia lycopodioides</i>	Liverwort	G5/—/S1	OR-SEN	3	Subalpine wetland and riparian areas	MIIH
<i>Bartramiopsis lescurii</i>	Moss	G3G5/S1/—	WA-SEN	1	On rock substrates, vertical surfaces. In cool, humid canyons and stream terraces. Low to moderate elevations.	MIIH
<i>Blepharostoma arachnoideum</i>	Liverwort	G3G4/—/S2	OR-SEN	3	Coarse woody debris in forests	MIIH
<i>Brachydontium olympicum</i>	Moss	G2G3/S1/S1	OR-SEN/WA-STR	1	Cliffs, Rock Outcrops, Scree, Talus	MIIH
<i>Bryum calobryoides</i>	Moss	G3/S1/S2	OR-SEN/WA-STR	2	Subalpine dry areas	MIIH

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<i>Calliergon richardsonii</i>	Moss	G5/—/S1	OR-SEN	2	Subalpine wet	MIIH
<i>Calyptogeia sphagnicola</i>	Liverwort	G4/—/S2	OR-SEN	1	Wet meadows	MIIH
<i>Campylium stellatum</i>	Moss	G5/—/S1	OR-SEN	5	Fens, Wetlands	MIIH
<i>Cephaloziella spinigera</i>	Liverwort	G4/—/S1	OR-SEN	3	Fens, Wetlands	MIIH
<i>Cryptomitrium tenerum</i>	Liverwort	G4/—/S1	OR-SEN	1	Forming small to locally extensive mats on bare, usually shaded and humid soil on hillsides, rock outcrops, and streambanks. In Oregon between sea level and 1000 feet elevation.	MIIH
<i>Encalypta brevipes</i>	Moss	G3/—/S1	OR-SEN	1	Subalpine dry areas	MIIH
<i>Gymnomitrium concinnatum</i>	Liverwort	G5/—/S1	OR-SEN	1	Rock outcrops, cliffs	MIIH
<i>Haplomitrium hookeri</i>	Liverwort	G4/—/S1	OR-SEN	1	Snowmelt	MIIH
<i>Harpanthus flotovianus</i>	Liverwort	G5/—/S1	OR-SEN	4	Subalpine wetland and riparian areas	MIIH
<i>Herbertus aduncus</i> ssp. <i>aduncus</i>	Liverwort	G5/—/S2	OR-SEN	1	Cliffs with western hemlock	MIIH
<i>Iwatsukiella leucotricha</i>	Moss	G4G5/S1/S1	OR-STR/WA-SEN	1	Trunks and branches of conifers and occasionally on alder trees along exposed, higher elevation coastal ridges in Washington and Oregon. Globally this species occurs in Japan and adjacent eastern Asia.	MIIH
<i>Jamesoniella autumnalis</i> var. <i>heterostipa</i>	Liverwort	G5Q/—/S1	OR-SEN	1	Growing over rocks in moving water or forming sometimes extensive, loose mats in lakes; can be quite deep	MIIH

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<i>Jungermannia polaris</i>	Liverwort	G4/—/S1	OR-SEN	2	Subalpine wetland and riparian areas	MIIH
<i>Lophozia gillmanii</i>	Liverwort	G5/—/S1	OR-SEN	3	Subalpine wetland and riparian areas	MIIH
<i>Lophozia laxa</i>	Liverwort	G4/—/S2	OR-SEN	1	Bogs	MIIH
<i>Marsupella emarginata</i> var. <i>aquatica</i>	Liverwort	G5/—/S1	OR-SEN	2	Riparian zones, floodplains; aquatic	MIIH
<i>Nardia japonica</i>	Liverwort	G5/—/S2	OR-SEN	1	Cliffs, Rock Outcrops, Scree, Talus	MIIH
<i>Orthodontium gracile</i>	Moss	G5/—/S1	OR-SEN	1	Shaded habitats on the lower trunks of mature coastal redwoods or on downed wood/stumps in SW OR and northern CA.	MIIH
<i>Orthodontium pellucens</i>	Moss	G5/—/S1	OR-SEN	1	On boles of redwood trees in moist old growth or mature second growth forest. Within the range of redwoods from sw OR south to central coast CA.	MIIH
<i>Peltolepis quadrata</i>	Liverwort	G4/—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Phymatoceros phymatodes</i>	Liverwort	G2G3/—/S1	OR-SEN	1	Riverine forest dominated by Quercus, Lithocarpus, and Umbellularia	MIIH
<i>Polytrichum strictum</i>	Moss	G5/S2/S1	OR-SEN/WA-STR	1	Cool riparian and lacustrine; Cool coniferous forest; Subalpine wet	MIIH

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<i>Porella bolanderi</i>	Liverwort	G3/—/S1	OR-SEN	1	Forming shaded to partly exposed mats on a variety of rock types (siliceous, calcareous, and metamorphic) and trunks of Quercus, Umbellularia, and Acer macrophyllum (Piippo and Norris 1996). In the Pacific Northwest, known elevations range from 500-3000'	MIIH
<i>Preissia quadrata</i>	Liverwort	G5/—/S2	OR-SEN	2	Subalpine wetland and riparian areas	MIIH
<i>Scapania obscura</i>	Liverwort	G3Q/—/S1	OR-SEN	1	On peaty soil close to streams below cold water springs and in snow melt seepage channels. May be submerged much of the year. Grows in full sun.	MIIH
<i>Schistidium cinclidodonteum</i>	Moss	G2G3/—/S2	OR-SEN	1	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Schofieldia monticola</i>	Liverwort	G3/—/S1	OR-SEN	1	Snowmelt	MIIH
<i>Scouleria marginata</i>	Moss	G3/S2/S2	OR-STR/WA-SEN	1	Riparian	MIIH
<i>Splachnum sphaericum</i>	Moss	G4G5/—/S1	OR-SEN	2	Fens, Wetlands	MIIH
<i>Tetraphis geniculata</i>	Moss	G5/S2/S1	OR-SEN/WA-STR	4	Low to moderate elevation cliffs, rock outcrops, and talus	MIIH
<i>Tortula mucronifolia</i>	Moss	G5/—/S2	OR-SEN	1	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Tritomaria exsecta</i>	Liverwort	G5/—/S1	OR-SEN	1	Coarse woody debris in forests	MIIH

Table 2. Fungi species analyzed

Scientific Name	NatureServe Ranks (Global/ Oregon/ Washington) <sup>1</sup>	Conservation Status <sup>2</sup>	Known occurrence in Riparian Project Area <sup>3</sup>	Habitat	Effects Determinations for Direct and Indirect Effects to Riparian Plants <sup>4</sup>
<i>Albatrellus avellaneus</i>	G2/—/S1?	OR-SEN	3	Moist forest	MIIH
<i>Bryoglossum gracile</i>	G4/—/S1	OR-SEN	2	Western hemlock, silver fir, and mountain hemlock	MIIH
<i>Chamonixia caespitosa</i>	G5/—/S1	OR-SEN	2	Moist, low-mid elevation sites (5,000 ft) with Douglas-fir and hemlock. Coastal, suspected west and east Cascades. June-Nov.	MIIH
<i>Cortinarius barlowensis</i>	G3?/—/S2	OR-SEN	5	Coniferous forest	MIIH
<i>Entoloma occidentale</i>	G1/—/S1	OR-SEN	1	Low to mid-elevation mixed conifer-hardwood stands that may include <i>Pseudotsuga menziesii</i> , <i>Calocedrus decurrens</i> , <i>Pinus lambertiana</i> , <i>Arbutus menziesii</i> , <i>Notholithocarpus densiflorus</i> , and <i>Berberis nervosa</i>	MIIH
<i>Gastroboletus vividus</i>	G2?/—/S1	OR-SEN	2	Subalpine forest	MIIH
<i>Helvella crassitunicata</i>	G3/—/S2	OR-SEN	4	Coarse woody debris in forests	MIIH
<i>Macowanites mollis</i>	G1G2/—/S1	OR-SEN	1	Associated with the roots of grand fir, Doug-fir, and western hemlock, above 3,200 ft elevation. West Cascades. July-Sept.	MIIH
<i>Mythicomyces corneipes</i>	G3G4/—/S2?	OR-SEN	3	Coniferous forest	MIIH
<i>Otidea smithii</i>	G3/—/S2	OR-SEN	2	On exposed soil, moss, litter or humus under bigleaf maple, white oak, cottonwood, Doug.-fir, ponderosa pine and W. hemlock. W. Cascades. Aug-Dec.	MIIH
<i>Phaeocollybia gregaria</i>	G1G2/—/S1S2	OR-SEN	2	Associated with Sitka spruce and Doug-fir, 470-1,500 ft elevation. Coastal to W. Cascades. Oct-Nov.	MIIH
<i>Phaeocollybia oregonensis</i>	G2?/—/S2?	OR-SEN	1	On soil assoc with Douglas-fir, silver fir, W. hemlock. Coastal to W. Cascades. Oct-Nov.	MIIH

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<i>Pseudorhizina californica</i>	G4/—/S2	OR-SEN	4	Cold riparian forest, shrublands, springs, and wetlands	MIIH
<i>Rhizopogon brunneifibrillosus</i>	G2G3/—/S1	OR-SEN	1	Associated with Doug-fir, Ponderosa pine, and other Pinaceae and depends on mycophagy (consumption by animals) for spore dispersal. Known from the E. Cascades only. Sept-Oct.	MIIH
<i>Rhizopogon ellipsosporus</i>	G2G3/—/S1S2	OR-SEN	2	Associated with Doug-fir, tanoak, and mountain hemlock. Oct-Nov.	MIIH
<i>Rhizopogon exiguus</i>	G2G3/—/S1S2	OR-SEN	2	Coniferous forest	MIIH
<i>Rhizopogon inquinatus</i>	G2G3/—/S1S2	OR-SEN	1	Coniferous forest	MIIH
<i>Sarcodon fuscoindicus</i>	G3/—/S2	OR-SEN	6	On soil, litter, and humus in forests (W. hemlock and Pacific silver fir) under 3,000 ft. elevation. Coastal to E. Cascades. Sept-Dec.	MIIH
<i>Stagnicola perplexa</i>	G3G4/—/S1S2	OR-SEN	5	Coniferous forest	MIIH

Table 3. Lichens analyzed

Scientific Name	NatureServe Ranks (Global/ Oregon/ Washington) <sup>1</sup>	Conservation Status <sup>2</sup>	Known occurrence in Riparian Project Area <sup>3</sup>	Habitat	Effects Determination for Direct and Indirect Effects to Riparian Plants <sup>4</sup>
<i>Bryoria bicolor</i>	G4/—/S2	OR-SEN	1	Mossy rocks, heath, and bark of conifers on windswept and fog-drenched summits at highest elevations along the immediate coast	MIIH
<i>Dermatocarpon meiophyllizum</i>	G3G5/S2/S3	WA-SEN	6	Riparian	MIIH
<i>Erioderma solediatum</i>	G4/S2/S3	WA-SEN	2	Semi-open habitats on the coast, in dune woodlands, <i>Picea</i> forests; also known on red alder ( <i>Alnus rubra</i> ).	MIIH
<i>Hypotrachyna riparia</i>	G1/—/S1	OR-SEN	1	On deciduous shrubs and trees in riparian forests below about 2,000 feet elevation. W. Cascades.	MIIH
<i>Leioderma solediatum</i>	G4/S1/S1	SEN	2	Semi-open coastal thickets, deflation plains, and ericaceous shrub thickets of shore pine ( <i>Pinus contorta</i> )	MIIH
<i>Leptogium burnetiae</i>	G3G5/S1/—	WA-SEN	1	Riparian	MIIH
<i>Leptogium cyanescens</i>	G5/S1/S1	SEN	1	Known in Oregon from two coastal sites and in WA, one low elevation site in west Cascades. Substrates include <i>Pyrus fusca</i> , <i>Acer circinatum</i> and <i>Picea sitchensis</i> .	MIIH
<i>Lobaria linita</i>	G5/S4/S2	OR-SEN	5	Rock outcrops, cliffs	MIIH
<i>Microcalicium arenarium</i>	G4G5/—/S1	OR-SEN	2	Pin lichen on snags and trees with furrowed bark in shaded forests	MIIH
<i>Niebla cephalota</i>	G3G4/S2/S2	SEN	1	On exposed coastal trees and on rock on oceanic shores	MIIH
<i>Pannaria rubiginosa</i>	G4G5/—/S2	OR-SEN	1	Bark of conifer and deciduous trees in moist, shaded forest habitat	MIIH

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<i>Pilophorus nigricaulis</i>	G3G4/S3/S2	OR-SEN	5	Rock on cool, north-facing slopes	MIIH
<i>Ramalina pollinaria</i>	G4/S2/S1S2	OR-SEN/WA-STR	1	Coniferous forest; Riparian zones, floodplains	MIIH
<i>Ramalina thrausta</i>	G4G5/S2/—	WA-SEN	6	Moist, cool, late-successional forests	MIIH
<i>Stereocaulon spathuliferum</i>	G4G5/—/S1	OR-SEN	1	Coniferous forest	MIIH
<i>Teloschistes flavicans</i>	G4G5/—/S1	OR-SEN	1	Reaches northern limits of range in OR. In exposed headlands and dunes on immediate coast in Oregon.	MIIH
<i>Tholurna dissimilis</i>	G4G5/S2/S2	SEN	4	Subalpine forest	MIIH
<i>Usnea lambii</i>	G4G5/S2/S1	OR-STR/WA-SEN	1	On acidic rocks and boulders in open subalpine to alpine habitats	MIIH
<i>Usnea nidulans</i>	G3G4/—/S1	OR-SEN	2	Maritime forests on the immediate coast	MIIH



Table 4. Vascular plant species analyzed

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<i>Achnatherum hendersonii</i>	Henderson's ricegrass	G3/S3/S2	OR-SEN	1	Lithosols (scablands)	MIIH
<i>Achnatherum richardsonii</i>	Richardson's ricegrass	G5/—/S2?	OR-SEN		Non-forested	MIIH
<i>Achnatherum wallowaense</i>	Wallowa ricegrass	G2G3/—/S2S3	OR-SEN	1	Lithosols (scablands)	MIIH
<i>Adiantum jordanii</i>	California maiden-hair	G4G5/—/S2	OR-SEN	1	Growing under myrtle-wood along intermittent stream banks, moist draws and within moist rocky crevices. Elevations less than 3600 feet. Known from about 22 occurrences along the Lower Rogue and Lower Umpqua river canyons of OR; very common in CA.	MIIH
<i>Agoseris aurantiaca</i> var. <i>carnea</i>	Pink agoseris	G2/S2/—	WA-SEN		Subalpine & montane wet meadows	MIIH
<i>Agoseris elata</i>	Tall agoseris	G4/S3?/S1	OR-SEN	4	Meadows and forest openings	MIIH
<i>Agrostis howellii</i>	Howell's bentgrass	G2/—/S2	OR-SEN	1	Cliff faces in spray zone with <i>Adiantum</i>	MIIH
<i>Allium campanulatum</i>	Sierra onion	G4/S1/S3	WA-SEN	3	Dry forest	MIIH
<i>Allium dictuon</i>	Blue mountain onion	G2/S2/S2	SEN	1	Non-forested	MIIH
<i>Allium geyeri</i> var. <i>geyeri</i>	Geyer's onion	G4G5/—/S1	OR-SEN	1	Meadows, streams	MIIH
<i>Antennaria corymbosa</i>	Meadow pussy-toes	G5/S1/—	WA-SEN	1	Riparian	MIIH
<i>Arabis modesta</i>	Rogue canyon rockcress	G3/—/S2	OR-SEN	1	Deep soil on steep slopes, cliffs, shaded canyon ledges; 150–500 m (500-1600 feet). Restricted range-Rogue Canyon in Josephine Co., near Provolt, Jackson Co.; Siskiyou Co., CA.	MIIH

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<i>Arctostaphylos hispidula</i>	Gasquet manzanita	G4—/S2	OR-SEN	1	Dry rocky ridges and gravelly soils, often on serpentine. Shrub communities or sparse forest, often growing with <i>A. columbiana</i> . Curry, Douglas and Josephine Cos., OR; south to Sonoma Co., CA.	MIIH
<i>Arnica viscosa</i>	Shasta arnica	G4—/S2	OR-SEN	2	Cliffs, Rock Outcrops, Scree, Talus	MIIH
<i>Asplenium septentrionale</i>	Grass-fern	G5—/S1	OR-SEN	1	Rock outcrops, cliffs	MIIH
<i>Astragalus arrectus</i>	Palouse milk-vetch	G2G4/S2/—	WA-SEN	1	Non-forested	MIIH
<i>Astragalus arthurii</i>	Arthur's milk-vetch	G4/S2/—	WA-SEN	1	Non-forested	MIIH
<i>Astragalus cusickii</i> var. <i>cusickii</i>	Cusick's milk-vetch	G5/S2/—	WA-SEN	1	Grassland	MIIH
<i>Astragalus diaphanus</i> var. <i>diurnus</i>	South fork john day milk-vetch	G4Q—/S2	OR-SEN	1	Riparian	MIIH
<i>Astragalus lemmonii</i>	Lemmon's milk	G2—/S1	OR-SEN	1	Sagebrush flat, often in dry washes	MIIH
<i>Astragalus microcystis</i>	Least bladderly milk-vetch	G5/S2/—	WA-SEN	1	Alpine limestone, lower elevation gravelly-sandy riverbanks	MIIH
<i>Astragalus peckii</i>	Peck's milk-vetch	G3—/S3	OR-SEN	1	Sagebrush/Grassland	MIIH
<i>Astragalus tegetarioides</i>	Bastard kentrophyta	G3—/S3	OR-SEN	2	Sagebrush steppe	MIIH
<i>Bensoniella oregana</i>	Bensonia	G3—/S3	OR-SEN	1	Seeps, springs, moist meadows and wet roadside ditches along upper slopes and ridges. Range is restricted to the Coast and Siskiyou Mountains In extreme SW Oregon and NW California. Elevations 2,800 to 5,200 feet.	MIIH

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<i>Boechera padoensis</i>	Mt. Adams rockcress	G3?/—/S1	OR-SEN		In coarse sand among granitic rocks of a coniferous mountainside; with <i>Lonicera</i>	MIIH
<i>Bolandra oregana</i>	Oregon bolandra	G3/S2/S3	WA-SEN	3	Riparian	MIIH
<i>Botrychium ascendens</i>	Upward-lobed moonwort	G3/S2/S2	SEN	5	Subalpine wetland and riparian areas	MIIH
<i>Botrychium campestre</i>	Prairie moonwort	G3G4/—/S1	OR-SEN	1	Riparian	MIIH
<i>Botrychium crenulatum</i>	Crenulate moonwort	G3/S3/S2	SEN	6	Subalpine wetland and riparian areas	MIIH
<i>Botrychium hesperium</i>	Western moonwort	G4/S2/S1	SEN	3	Subalpine wetland and riparian areas	MIIH
<i>Botrychium lineare</i>	Slender moonwort	G3/S1/S1	SEN	2	Subalpine wetland and riparian areas	MIIH
<i>Botrychium lunaria</i>	Moonwort	G5/S3/S2	OR-SEN	4	Subalpine wetland and riparian areas	MIIH
<i>Botrychium montanum</i>	Mountain grape-fern	G3/S3/S2	OR-SEN	9	Subalpine wetland and riparian areas	MIIH
<i>Botrychium paradoxum</i>	Twin-spiked moonwort	G3G4/S2/S1	SEN	5	Subalpine wetland and riparian areas	MIIH
<i>Botrychium pedunculosum</i>	Stalked moonwort	G3G4/S2/S1	SEN	4	Subalpine wetland and riparian areas	MIIH
<i>Botrychium pumicola</i>	Pumice grape-fern	G3/—/S3	OR-SEN	1	Alpine/subalpine pumice and basalt, montane pumice frost pockets	MIIH
<i>Bupleurum americanum</i>	Bupleurum	G5/—/S1	OR-SEN	1	Subalpine dry areas	MIIH
<i>Calamagrostis breweri</i>	Brewer's reedgrass	G3/—/S2	OR-SEN	2	Alpine/subalpine meadows	MIIH
<i>Calamagrostis tweedyi</i>	Tweedy's reedgrass	G3/—/S1	OR-SEN?		Red fir forest, can be after burns	MIIH
<i>Calochortus howellii</i>	Howell's mariposa-lily	G3/—/S3	OR-SEN	1	Jeffrey pine savannah, often rocky	MIIH
<i>Calochortus longebarbatus</i> var. <i>peckii</i>	Peck's mariposa-lily	G4/—/S3	OR-SEN	2	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Calochortus macrocarpus</i> var. <i>maculosus</i>	Green-band mariposa-lily	G5/S2?/S2	SEN	2	Non-forested	MIIH

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<i>Calochortus umpquaensis</i>	Umpqua mariposa-lily	G3—/S2	OR-SEN	1	Serpentine balds and openings in oak-pine woodland	MIIH
<i>Camassia howellii</i>	Howell's camas	G2—/S2	OR-SEN	1	Dry, open serpentine slopes. Confined to an area east of I-5 between Sexton Mtn. and Merlin with a few outlying populations.	MIIH
<i>Campanula lasiocarpa</i>	Alaska harebell	G5/S2/—	WA-SEN	1	In rock crevices in unglaciated alpine zones; dry, rocky microsites within cool, wet subalpine areas. Elevation 2000-6840 ft.	MIIH
<i>Carex anthoxantha</i>	Yellow-flowered sedge	G5/S1/—	WA-SEN	1	Bogs; wet meadows	MIIH
<i>Carex atosquama</i>	Blackened sedge	G5—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Carex capillaris</i>	Hairlike sedge	G5/S1/S2	SEN	3	Subalpine wet	MIIH
<i>Carex capitata</i>	Capitate sedge	G5/S1/S2	OR-SEN/WA-STR	2	Fens, Wetlands	MIIH
<i>Carex circinata</i>	Coiled sedge	G4/S1/—	WA-SEN	1	Cliffs, talus slopes, rocky knolls	MIIH
<i>Carex concinna</i>	Low northern sedge	G5—/S1	OR-SEN		Stream terraces and floodplains in mossy woods, often limestone	MIIH
<i>Carex cordillerana</i>	Cordilleran sedge	G3G4/S1/S2	SEN	4	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Carex diandra</i>	Lesser paniced sedge	G5—/S1	OR-SEN	2	Peatlands (including fens)	MIIH
<i>Carex heteroneura var. epapillosa</i>	Different nerve sedge	G5/S2S3/—	WA-SEN	1	Stream and lake margins, seeps and moist to mesic meadows of subalpine, alpine areas, steep rocky or gravelly slopes	MIIH

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<i>Carex idahoa</i>	Idaho sedge	G2G3—/S1	OR-SEN	1	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Carex klamathensis</i>	A sedge	G2—/S2	OR-SEN	1	Serpentine wetlands/Darlingtonia bogs at 1,300 to 1,800 feet. Restricted to Josephine County, Oregon w/isolated disjunct population near Redding, CA.	MIIH
<i>Carex lasiocarpa</i>	Slender sedge	G5—/S2	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Carex lasiocarpa</i>	Slender sedge	G5—/S2	OR-SEN	2	Subalpine wetland and riparian areas	MIIH
<i>Carex livida</i>	Pale sedge	G5—/S2	OR-SEN	3	Fens, Wetlands	MIIH
<i>Carex macrochaeta</i>	Large-awn sedge	G5/S1/S2	SEN	1	Moist open places, including seeps, wet meadows, and around streams, lakes, waterfalls. Elevation 1200-3200 ft.	MIIH
<i>Carex media</i>	Intermediate sedge	G5/S2/S1	SEN	2	Subalpine wetland and riparian areas	MIIH
<i>Carex micropoda</i>	Pyrenaean sedge	G4G5—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Carex nardina</i>	Spikenard sedge	G4G5—/S2?	OR-SEN	1	Subalpine dry areas	MIIH
<i>Carex nervina</i>	Sierra nerved sedge	G5—/S1	OR-SEN	1	Moist to wet places, often shaded, 3,600 feet and higher. East Klamath-Siskiyou Mts. and Sierra Nevada Mts.	MIIH
<i>Carex pauciflora</i>	Few-flowered sedge	G5/S2/—	WA-SEN	2	Wet acidic environments, including sphagnum bogs and acidic peat. Elevation 250-4550 ft.	MIIH
<i>Carex pelocarpa</i>	New sedge	G4G5—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH

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<i>Carex proposita</i>	Smokey Mtn. sedge	G4/S2/—	WA-SEN	1	Rocky slopes and ridges, often on talus or granite substrate, near or above tree line	MIIH
<i>Carex retrorsa</i>	Retorse sedge	G5/—/S1	OR-SEN	2	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Carex rostrata</i>	Beaked sedge	G5/S2/—	WA-SEN	1	Quaking or floating peat, 4500-5000 ft.	MIIH
<i>Carex scirpoidea</i> ssp. <i>scirpoidea</i>	Canadian single-spike sedge	G5/S2/—	WA-SEN	3	Moist alpine meadows, stream banks, and open rocky slopes in the mountains, often above timberline. Elevation 4800-7600 ft.	MIIH
<i>Carex stylosa</i>	Long-styled sedge	G5/S2/—	WA-SEN	1	Ponds, bogs, fens, shallow marshes, streambanks, and moist meadows. Elevation 2760-5200 ft.	MIIH
<i>Carex subnigricans</i>	Dark alpine sedge	G5/—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Carex sychnocephala</i>	Many-headed sedge	G5/S2/—	WA-SEN	1	Moist or wet ground adjacent to marshes or along lake shores, 1000-3000 ft.	MIIH
<i>Carex tenuiflora</i>	Sparseflower sedge	G5/S2/—	WA-SEN	2	Wetland obligate of bogs, fens, swamps, wet grassy areas, and occasionally seepage areas in forests, 3000-4000 ft.	MIIH
<i>Carex vernacula</i>	Native sedge	G5/—/S2	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Castilleja chlorotica</i>	Green-tinged paintbrush	G3/—/S3	OR-SEN	1	Meadows and forest openings	MIIH
<i>Castilleja collegiorum</i>	Collegial paintbrush	G1/—/S1	OR-SEN		Wet meadows	MIIH
<i>Castilleja cryptantha</i>	Obscure indian-paintbrush	G2G3/S2S3/—	WA-SEN	1	Herbaceous Wetlands	MIIH

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<i>Castilleja fraterna</i>	Fraternal paintbrush	G2/—/S2	OR-SEN	1	Subalpine	MIIH
<i>Castilleja rubida</i>	Purple alpine paintbrush	G2/—/S2	OR-SEN	1	Subalpine	MIIH
<i>Castilleja schizotricha</i>	Split-hair paintbrush	G3/—/S2	OR-SEN	1	On decomposed granite or marble, 5,000-6,000 feet, north aspects, in red-fir forest. Siskiyou crest in Jackson and Josephine Counties and south into the Red Buttes Wilderness.	MIIH
<i>Castilleja viscidula</i>	Sticky paintbrush	G4G5/—/S2	OR-SEN	1	Subalpine dry	MIIH
<i>Chaenactis thompsonii</i>	Thompson's chaenactis	G3/S3/—	WA-SEN	2	Found on dry rocky slopes and ridges at elevations ranging from about 4900-8000 ft in serpentine soils	MIIH
<i>Cheilanthes covillei</i>	Coville's lip-fern	G4?/—/S1	OR-SEN	1	Rock crevices, base of rocks, rocky slopes, sun to shade. West Cascades in Jackson Co.; also occurs in CA, NV, UT and AZ.	MIIH
<i>Cheilanthes feei</i>	Fee's lip-fern	G5/S1/S2	SEN	1	Subalpine dry areas	MIIH
<i>Chrysosplenium tetrandrum</i>	Northern golden-carpet	G5/S2/—	WA-SEN	1	Seeps, rock crevices, wet banks, and other open, wet places at lower to mid-elevations	MIIH
<i>Cicuta bulbifera</i>	Bulb-bearing water-hemlock	G5/S2S3/SH	OR-STR/WA-SEN	1	Wetland	MIIH
<i>Cirsium remotifolium</i> var. <i>remotifolium</i>	Weak thistle	G5/S1/—	WA-SEN		Fields; meadows; forest openings; open woods; brushy slopes	MIIH
<i>Claytonia multiscapa</i> ssp. <i>pacifica</i>	Pacific lance-leaved springbeauty	G5/S1/—	WA-SEN	1	Wet subalpine to alpine meadows	MIIH

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<i>Collinsia sparsiflora</i> var. <i>bruceae</i>	Few-flowered collinsia	G4/S1/—	WA-SEN	1	Vernally wet thin basalt soils; openings in ponderosa pine-Oregon white oak woodlands	MIIH
<i>Collomia mazama</i>	Mt. Mazama collomia	G3/—/S3	OR-SEN	3	Meadows and forest openings	MIIH
<i>Coptis aspleniifolia</i>	Spleenwort-leaved goldthread	G5/S2/—	WA-SEN	1	Moist, old forest with well-developed litter layer.	MIIH
<i>Coptis trifolia</i>	Three-leaf goldthread	G5/S1/S1	SEN	1	Coniferous forest	MIIH
<i>Corydalis aquae-gelidae</i>	Cold-water corydalis	G3/S2/S3	SEN	4	Regional endemic in S. WA	MIIH
<i>Cryptantha grandiflora</i>	Clearwater cryptantha	G3?/—/S2	OR-SEN	1	Non-forested	MIIH
<i>Cryptantha milo-bakeri</i>	Milo baker's cryptantha	G3G4/—/S1	OR-SEN	1	Rocky or gravelly slopes, generally coniferous forests below 4,500 feet.	MIIH
<i>Cryptantha simulans</i>	Pine woods cryptantha	G4/—/S2	OR-SEN	1	Non-forested	MIIH
<i>Cryptogramma stelleri</i>	Steller's rockbrake	G5/S2/S1	SEN	3	Subalpine wetland and riparian areas	MIIH
<i>Cymopterus nivalis</i>	Snowline spring-parsley	G5/—/S2	OR-SEN	1	Subalpine dry areas	MIIH
<i>Cyperus lupulinus</i> ssp. <i>lupulinus</i>	A cyperus	G5/—/S1	OR-SEN	1	Shorelines, freshwater beaches	MIIH
<i>Cypripedium fasciculatum</i>	Clustered lady's-slipper	G4/S3/S2	OR-SEN	7	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Cypripedium parviflorum</i>	Yellow lady's-slipper	G5/S2/—	WA-SEN	2	Bogs and wet forests, perennial streams on limestone rock under mixed coniferous forest, 2100-3440 ft.	MIIH
<i>Delphinium nudicaule</i>	Red larkspur	G4/—/S2	OR-SEN	1	Talus and well drained gravelly soils or rocky slopes. Jackson and Josephine Cos., OR; common in CA.	MIIH



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<i>Delphinium viridescens</i>	Wenatchee larkspur	G2/S2/—	WA-SEN	1	In moist meadows, moist microsites in open coniferous forests, springs, seeps and riparian areas. Surface water or saturated upper soil profiles into early summer.	MIIH
<i>Dicentra pauciflora</i>	Few-flowered bleedingheart	G3?/—/S1	OR-SEN	1	High elevation on rocky to gravelly soils. Josephine Co., OR south to the Sierra Nevada in CA.	MIIH
<i>Diphysastrum complanatum</i>	Ground cedar	G5/—/S2	OR-SEN	3	Meadows and forest openings	MIIH
<i>Diplacus bolanderi</i>	Bolander's monkeyflower	G4/—/S1	OR-SEN	1	Chaparral with Oregon white oak, Ceanothus cuneatus, Arctostaphylos viscida, and Rhus diversiloba	MIIH
<i>Diplacus tricolor</i>	Three-colored monkeyflower	G4/—/S2	OR-SEN	1	Vernal pools in Artemisia cana flats, sunny	MIIH
<i>Draba aurea</i>	Golden draba	G5/S1/—	WA-SEN	1	On forested slopes and in alpine meadows. In WA, found in fellfields and dry slopes to lush meadows in the subalpine zones at an elevation of 6800 to 7700 ft.	MIIH
<i>Draba cana</i>	Lance-leaved draba	G5/S1/—	WA-SEN	1	Occurs in open, alpine and subalpine, dry meadows and knolls, and in rock crevices and on stony slopes	MIIH
<i>Draba howellii</i>	Howell's whitlow-grass	G4/—/S2	OR-SEN	1	Granitic north facing rock crevices, above 4,000 feet. Restricted to the Klamath-Siskiyou Mts. in SW OR and NW CA.	MIIH

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<i>Dracocephalum parviflorum</i>	American dragonhead	G5/—/S2?	OR-SEN		Non-forested	MIIH
<i>Dryopteris cristata</i>	Crested shield-fern	G5/S2/—	WA-SEN	1	Fens, wet meadows and wooded swamps, 2150-4100 ft.	MIIH
<i>Eleocharis bolanderi</i>	Bolander's spikerush	G4/—/S2	OR-SEN	4	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Epilobium oregonum</i>	Oregon willow-herb	G2/—/S2	OR-SEN	1	Cool riparian and lacustrine	MIIH
<i>Epilobium palustre</i>	Swamp willow-herb	G5/—/S2?	OR-SEN	1	Wet meadows, seeps, boggy areas	MIIH
<i>Epilobium siskiyouense</i>	Siskiyou willow-herb	G3/—/S2	OR-SEN	1	Boulder fields, rock crevices and rocky slopes on serpentine soils at 5,500 to 8,200 feet. Jackson and Josephine Cos., OR; Siskiyou and Trinity Cos., CA.	MIIH
<i>Ericameria arborescens</i>	Golden fleece	G4/—/S1	OR-SEN	1	In OR occurring in openings of PSME/LIDE forest; disturbance and fire are necessary for germination. 1200-2700 ft. Known from 6 sites in Curry Co., OR; abundant in CA.	MIIH
<i>Erigeron cervinus</i>	Siskiyou daisy	G3/—/S2	OR-SEN	1	In rocky places or crevices on solid rock. Also in open areas, medium to high elevations and sometimes glaciated areas. River and stream banks at lower elevations, usually near seeps or vernal wet areas. Siskiyou Mts. of Curry and Josephine Cos.	MIIH
<i>Erigeron davisii</i>	Engelmann's daisy	G3/S1/S1	OR-SEN/WA-STR	1	Non-forested	MIIH
<i>Erigeron disparipilus</i>	White cushion erigeron	G5/S1/S2	SEN	2	Non-forested	MIIH

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<i>Erigeron howellii</i>	Howell's daisy	G2/S2/S2	SEN	2	Moist-dry cliffs, talus, rocky slopes. May-July.	MIIH
<i>Erigeron oregonus</i>	Oregon daisy	G3/S2/S3	SEN	1	Basalt cliffs, vernal wet	MIIH
<i>Erigeron petrophilus</i>	Cliff daisy	G4/—/S2	OR-SEN	1	High elevation serpentine slopes and cliffs. Jackson and Josephine Cos., OR; CA Klamath and Coast Range.	MIIH
<i>Erigeron salishii</i>	Salish fleabane	G3/S2/—	WA-SEN	2	Alpine zone on dry rocky, scree slopes and ridgetops with granite, rock, talus, sand and loess soils. Elevation 6600-9000 ft.	MIIH
<i>Eriogonum prociduum</i>	Prostrate buckwheat	G2?/—/S1?	OR-SEN	1	Juniper-Sagebrush; Juniper Woodlands	MIIH
<i>Eriogonum umbellatum</i> var. <i>glaberrimum</i>	Green buckwheat	G5/—/S1?	OR-SEN	1	Dry rocky soil	MIIH
<i>Eriophorum viridicarinatum</i>	Green keeled cotton-grass	G5/S2/—	WA-SEN	3	Cold swamps and bogs at moderate to higher elevations. In WA, occurs in sedge dominated vegetation.	MIIH
<i>Erythranthe hymenophylla</i>	Membrane-leaved monkeyflower	G2/—/S1S2	OR-SEN	1	Riparian	MIIH
<i>Erythranthe inflatula</i>	Disappearing monkeyflower	G3/—/S2	OR-SEN	2	Riparian	MIIH
<i>Erythranthe pulsiferae</i>	Pulsifer's monkey-flower	G4?/S2/—	WA-SEN	1	Seasonally wet or moist open areas, often in exposed mineral soil or grass/forb openings in ponderosa pine, Douglas fir, or Oregon white oak woodland	MIIH
<i>Erythronium elegans</i>	Coast range fawn-lily	G2/—/S2	OR-SEN	1	Boggy areas	MIIH

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<i>Erythronium howellii</i>	Howell's adder's-tongue	G3G4/—/S3	OR-SEN	1	Open woods, often on serpentine or in ecotonal areas. Illinois Valley OR south to Trinity Mts. in CA.	MIIH
<i>Erythronium quinaultense</i>	Quinault fawnlily	G1G2/S1S2/—	WA-SEN	1	Openings and rocky ledges in coniferous forests	MIIH
<i>Eucephalus gormanii</i>	Gorman's aster	G3/—/S3	OR-SEN	2	Cliffs, Rock Outcrops, Scree, Talus	MIIH
<i>Frasera umpquaensis</i>	Umpqua swertia	G3Q/—/S3	OR-SEN	1	Mesic meadows	MIIH
<i>Frasera umpquaensis</i>	Umpqua swertia	G3Q/—/S3	OR-SEN	2	Mesic meadows	MIIH
<i>Fritillaria camschatcensis</i>	Black lily	G5/S2/S1	SEN	2	Moist areas, tideflats to mountain meadows	MIIH
<i>Galium serpenticum ssp. warnerense</i>	Warner mt. bedstraw	G4G5/—/S2	OR-SEN	1	Rock outcrops with Purshia tridentata and rabbitbrush	MIIH
<i>Gaultheria hispidula</i>	Creeping snowberry	G5/S2/—	WA-SEN	1	Sphagnum bogs and forests, 3000-6000 ft.	MIIH
<i>Gentiana douglasiana</i>	Swamp gentian	G5/S2/—	WA-SEN	1	Wet to moist meadows, seeps, prairie drainages, pond edges, seasonally flooded areas, and small bogs undergoing succession to coniferous forest. Elevation 2920-3050 ft.	MIIH
<i>Gentiana glauca</i>	Glaucous gentian	G4G5/S2/—	WA-SEN	2	Hummocks and seepage areas in moist alpine and subalpine meadows. Elevation 1890-2350 ft.	MIIH
<i>Gentiana newberryi var. newberryi</i>	Newberry's gentian	G4/—/S2	OR-SEN	1	Meadows and forest openings	MIIH

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<i>Gentiana plurisetosa</i>	Elegant gentian	G2G3—/S1	OR-SEN	1	Wet mountain meadows on granitic soils, 3,900 to 6,200 feet. Josephine Co., OR; Siskiyou, Trinity and Del Norte Cos., CA.	MIIH
<i>Gentiana setigera</i>	Waldo gentian	G2—/S2	OR-SEN	1	Serpentine wet meadows and Darlingtonia bogs, seeps on slopes at elevations below 3,800 feet	MIIH
<i>Geum rivale</i>	Water avens	G5/S2S3/—	WA-SEN	2	Wet meadows, bogs, riparian zones along perennial streams, and moist old pastures, 2500-6400 ft.	MIIH
<i>Githopsis specularioides</i>	Common blue-cup	G5/S2S3/—	WA-SEN		Riparian	MIIH
<i>Hackelia diffusa</i> var. <i>diffusa</i>	Diffuse stickseed	G4/S2/S3	WA-SEN	1	Non-forested	MIIH
<i>Hastingsia bracteosa</i> var. <i>atropurpurea</i>	Purple-flowered rush-lily	G2—/S2	OR-SEN	1	Darlingtonia bogs	MIIH
<i>Hastingsia bracteosa</i> var. <i>bracteosa</i>	Large-flowered rush-lily	G2—/S2	OR-SEN	1	Darlingtonia bogs	MIIH
<i>Hedysarum occidentale</i>	Western hedysarum	G5/S2/—	WA-SEN	1	Disturbed areas alpine and subalpine (dry, rocky)	MIIH
<i>Hedysarum occidentale</i>	Western hedysarum	G5/S2/—	WA-SEN	1	Disturbed areas alpine and subalpine (dry, rocky)	MIIH
<i>Heterotheca oregona</i>	Oregon goldenaster	G4/S2/—	WA-SEN	1	Freshwater riparian sand or rocks, often along rivers	MIIH
<i>Heterotheca oregona</i>	Oregon goldenaster	G4/S2/—	WA-SEN	1	Freshwater riparian sand or rocks, often along rivers	MIIH
<i>Hieracium horridum</i>	Shaggy hawkweed	G4—/S1	OR-SEN	1	Rock outcrops, cliffs subalpine	MIIH

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<i>Horkelia hendersonii</i>	Henderson's horkelia	G1G2/—/S1S2	OR-SEN	1	Dry granitic flats and rubbly talus slopes 6,000 to 7,000 feet. Known from Mt. Ashland in OR; and from one location in Siskiyou Co., CA.	MIIH
<i>Hydrocotyle verticillata</i>	Whorled marsh-pennywort	G5/—/S1	OR-SEN	1	Fens	MIIH
<i>Iliamna latibracteata</i>	California globe-mallow	G2G3/—/S2	OR-SEN	3	Coniferous forest; Riparian zones, floodplains	MIIH
<i>Impatiens nolitangere</i>	Western jewel-weed	G4G5/S1/—	WA-SEN	1	Moist woods, lowlands	MIIH
<i>Juncus bryoides</i>	Mosslike dwarf rush	G4/—/S2?	OR-SEN?		Moist shallow soil in sagebrush flats	MIIH
<i>Juncus hemiendytus var. abjectus</i>	Least rush	G5/—/S2?	OR-SEN		Seeps and springs	MIIH
<i>Juncus howellii</i>	Howell's rush	G4/S1/—	WA-SEN	1	Riparian	MIIH
<i>Juncus kelloggii</i>	Kellogg's rush	G3?/S1/S2?	SEN	1	Riparian	MIIH
<i>Juncus tiehmii</i>	Tiehm's rush	G4/S1/S1?	SEN	1	Bare, moist granitic sand along streams, seepage areas around outcrops, and depressions in meadows, usually with willows	MIIH
<i>Juncus triglumis var. albescens</i>	Three-flowered rush	G5/—/S1	OR-SEN	1	Subalpine	MIIH
<i>Kalmia procumbens</i>	Alpine azalea	G5/S1/—	WA-SEN	1	Alpine slopes and cold, dry areas at high elevations. Elevation 6100-6550 ft.	MIIH
<i>Kalmiopsis fragrans</i>	Fragrant kalmiopsis	G2/—/S2	OR-SEN	1	Rhyolitic rock outcrops	MIIH
<i>Keckiella lemmonii</i>	Bush beardtongue	G4/—/S1	OR-SEN	1	Roadbanks, other open areas	MIIH
<i>Kobresia myosuroides</i>	Bellard's kobresia	G5/—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Kobresia simpliciuscula</i>	Simple kobresia	G5/—/S1	OR-SEN	1	Subalpine	MIIH
<i>Lathrocasis tenerrima</i>	Delicate gilia	G5/S1/—	WA-SEN		Sandy soils	MIIH

Rare Plants in Riparian Areas of the Pacific Northwest Region

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<i>Lewisia columbiana</i> var. <i>columbiana</i>	Columbia lewisia	G4/—/S2	OR-SEN	2	Rock outcrops, cliffs, scree	MIIH
<i>Lewisia leeana</i>	Lee's lewisia	G4/—/S2	OR-SEN	1	Rocky, gravelly dry ridges with mountain hemlock	MIIH
<i>Listera borealis</i>	Northern twayblade	G4/—/S1	OR-SEN	4	Cold riparian forest, shrublands, springs, and wetlands	MIIH
<i>Lomatium engelmannii</i>	Englemann's desert-parsley	G3/—/S1	OR-SEN	1	Dry sunny with Douglas fir and huckleberry oak, serpentine	MIIH
<i>Lomatium greenmanii</i>	Greenman's desert-parsley	G1/—/S1	OR-SEN	1	Subalpine	MIIH
<i>Lomatium knokei</i>	Desert-parsley	G1/S1/—	WA-SEN		Seasonally wet meadows	MIIH
<i>Lomatium rollinsii</i>	Rollins' lomatium	G3/S2/S3	WA-SEN	2	Non-forested	MIIH
<i>Lomatium tarantuloides</i>	Spider biscuitroot	G1/—/S1	OR-SEN	1	Subalpine dry	MIIH
<i>Lotus stipularis</i>	Stipuled trefoil	G5/—/S2	OR-SEN	1	Open forest, stream beds, ditches, chaparral and logged areas below 4,000ft. Josephine Co., OR; throughout CA.	MIIH
<i>Luina serpentina</i>	Colonial luina	G3/—/S3	OR-SEN	2	Low to moderate elevation cliffs, rock outcrops, and talus	MIIH
<i>Lupinus tracyi</i>	Tracy's lupine	G4/—/S2	OR-SEN	1	Dry openings, edges of forest, open woods, on granitic and metavolcanic soils at mid to high elevations. Known from a few sites in the Siskiyou Mts of Curry and Josephine Cos., OR; Siskiyou in CA.	MIIH

Rare Plants in Riparian Areas of the Pacific Northwest Region

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<i>Luzula arcuata</i> ssp. <i>unalaschcensis</i>	Alaska curved woodrush	G5/S1/—	WA-SEN	2	Alpine to subalpine glacial moraines, mountain meadows, rocky and gravelly areas, rocky ridges, talus, bare patches of sandy soil; often adjacent to snow fields. Elevation 7040-8230 ft.	MIIH
<i>Lycopodiella inundata</i>	Bog club-moss	G5/S2/S2	SEN	3	Fens, Wetlands	MIIH
<i>Lycopodium dendroideum</i>	Treelike clubmoss	G5/S2/—	WA-SEN	1	Rock outcrops, talus or boulder fields, often with a moss and organic debris layer, ecotone between meadow or wetland and adjacent forest, near the base of large boulders in a fairly dense ground cover, 3000-3650 ft.	MIIH
<i>Meconella oregana</i>	White fairypoppy	G2G3/S1/S1	SEN	2	Oregon White Oak; Mixed Conifer Woodlands	MIIH
<i>Microseris borealis</i>	Northern microseris	G5/S2/—	WA-SEN	1	Coastal to montane wet meadows, sphagnum bogs, wet places. Obligate wetland species. Elevation 30-4760 ft.	MIIH
<i>Monardella purpurea</i>	Siskiyou monardella	G3Q/—/S3	OR-SEN	1	Rocky, open serpentine scrub forest, chaparral, woodlands and montane forest, 1,400-4,000ft. Curry, Jackson and Josephine Cos., OR; to central CA in Coast Range and Klamath Mts.	MIIH
<i>Montia diffusa</i>	Branching montia	G4/S1S2/—	WA-SEN	2	Moist forests, open fir woodlands in lowland and lower montane zones. Occ. in xeric soil or disturbed sites. Elevation 850-2900 ft.	MIIH



Rare Plants in Riparian Areas of the Pacific Northwest Region

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<i>Muhlenbergia glomerata</i>	Marsh muhly	G5/S2/—	WA-SEN	1	Along stream-banks, meadows, marshes, bogs, and the shores of ponds and lakes, 2900-3500 ft.	MIIH
<i>Nicotiana attenuata</i>	Coyote tobacco	G4/S2/—	WA-SEN	1	Dry sandy bottom lands, dry rocky washes, and in other dry open places.	MIIH
<i>Ophioglossum pusillum</i>	Adder's-tongue	G5/S2/S1	SEN	4	Cold riparian forest, shrublands, springs, and wetlands	MIIH
<i>Orthocarpus bracteosus</i>	Rosy owl-clover	G3?/S2/—	WA-SEN	1	Moist meadows, transition between WL and UPL, full sun; 1800-300 ft.	MIIH
<i>Oxytropis campestris var. gracilis</i>	Yellowflower locoweed	G5?/S2/—	WA-SEN	2	Prairies, alpine meadows, open woodlands, and gravelly floodplains in moist or dry soil. Elevation 1800-7600 feet	MIIH
<i>Parnassia kotzebuei</i>	Kotzebue's grass-of-parnassus	G5/S1/—	WA-SEN	1	Moist subalpine areas in meadows, thickets, and along creeks in boggy soil. In WA, in moist, near vertical, north facing granitic cliffs on damp mossy ledges and in rocky seepage areas ranging from 4,800-6,700 ft.	MIIH
<i>Parnassia palustris var. tenuis</i>	Northern grass-of-parnassus	G5/S2/—	WA-SEN	3	Arctic tundra to moist, shaded areas in the mountains, where usually along streams or around springs	MIIH
<i>Pedicularis pulchella</i>	Mountain lousewort	G3/S1/—	WA-SEN		Open slopes in alpine and subalpine areas	MIIH

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<i>Pedicularis rainierensis</i>	Mt. Rainier lousewort	G2G3/S2S3/—	WA-SEN	1	Usually subalpine, sometimes alpine, in moist meadows, open coniferous forests, rocky slopes; often near streams and lake basins. Elevation 4800-6800 ft.	MIIH
<i>Pellaea brachyptera</i>	Sierra cliffbrake	G4G5/S2/S4	WA-SEN	1	Open, dry, south to west facing slopes, growing in rocky soil, around the base of boulders and in sparse coniferous stands	MIIH
<i>Pellaea breweri</i>	Brewer's cliff-brake	G5/S2/—	WA-SEN	2	Open, rocky alpine areas; crevices, ledges, and bases of cliffs and rock outcrops; rocky slides. On basalt, granite, and sandstone. Elevation 4700-6700 ft.	MIIH
<i>Pellaea bridgesii</i>	Bridges' cliff-brake	G4/—/S2	OR-SEN	1	Low to moderate elevation cliffs, rock outcrops, and talus	MIIH
<i>Penstemon barrettiae</i>	Barrett's penstemon	G2/S2/S2	SEN	1	Agropyron Bunchgrass; Fescue-Bunchgrass	MIIH
<i>Penstemon eriantherus</i> var. <i>whitedii</i>	Whited's penstemon	G4/S2/—	WA-SEN	1	West facing slopes of small canyons and in dry and rocky habitats in the foothills of the Cascade Range	MIIH
<i>Penstemon glaucinus</i>	Blue-leaved penstemon	G3/—/S3	OR-SEN	1	Grand Fir-White Fir; Whitebark Pine	MIIH
<i>Penstemon peckii</i>	Peck's penstemon	G3/—/S3	OR-SEN	2	Meadows and forest openings	MIIH
<i>Penstemon pennellianus</i>	Blue Mountain penstemon	G3/S2/S2?	SEN	1	Non-forested	MIIH
<i>Penstemon wilcoxii</i>	Wilcox's penstemon	G4/S1/—	WA-SEN	1	Non-forested	MIIH
<i>Perideridia erythrorhiza</i>	Red-rooted yampah	G2/—/S2	OR-SEN	2	Herbaceous Wetlands; Fescue-Bunchgrass	MIIH

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<i>Petrophytum cinerascens</i>	Chelan rockmat	G1G2/S1S2/—	WA-SEN	1	Big Sagebrush; Antelope Bitterbrush-Bluebunch Wheatgrass	MIIH
<i>Phacelia lutea</i> var. <i>calva</i>	Owyhee phacelia	G4/—/S2?	OR-SEN?		Volcanic ash and tuff, with Wyoming sage	MIIH
<i>Phacelia minutissima</i>	Dwarf phacelia	G3/S1/S1	SEN	2	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Phlox hendersonii</i>	Henderson's phlox	G4/—/S1	OR-SEN	1	Subalpine dry areas	MIIH
<i>Phlox multiflora</i>	Many-flowered phlox	G4/—/S1	OR-SEN	2	Low to moderate elevation cliffs, rock outcrops, and talus	MIIH
<i>Phlox solivagus</i>	Lonely phlox	G1/S1/—	WA-SEN		Subalpine flower gardens	MIIH
<i>Pilularia americana</i>	American pillwort	G5/S2/S2	SEN	1	Vernal pools	MIIH
<i>Pinus albicaulis</i>	Whitebark pine	G3G4/S3/S3?	SEN	11	Subalpine dry areas	MIIH
<i>Pinus flexilis</i>	Limber pine	G4/—/S2?	OR-SEN	1	Subalpine	MIIH
<i>Platanthera chorisiana</i>	Choris' bog-orchid	G3G4/S2/—	WA-SEN	1	Wetlands, streams and bogs	MIIH
<i>Platanthera obtusata</i>	Small northern bog-orchid	G5/S3/S1	OR-SEN	4	Wetland	MIIH
<i>Polemonium viscosum</i>	Skunk polemonium	G5/S2/S4	WA-SEN	1	Open rocky places at high elevations in the mountains, commonly above timberline	MIIH
<i>Polystichum californicum</i>	California sword-fern	G4/S1/S2	SEN	3	Rock outcrops, cliffs	MIIH
<i>Potentilla versicolor</i> var. <i>darrachii</i>	Darrach's cinquefoil	G1?/—/S1?	OR-SEN		Subalpine flower gardens	MIIH
<i>Pyrrocoma hirta</i> var. <i>sonchifolia</i>	Sticky goldenweed	G4G5/S2/—	WA-SEN	1	Non-forested	MIIH
<i>Pyrrocoma racemosa</i> var. <i>paniculata</i>	Panicled goldenweed	G5/—/S2?	OR-SEN		Alkaline meadows, open fields, around hot springs and boggy areas	MIIH

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<i>Pyrrocoma scaberula</i>	Rough pyrrocoma	G2/S1/S1	SEN	1	Non-forested	MIIH
<i>Rafinesquia californica</i>	California chicory	G5/—/S2	OR-SEN	1	Open sites in scrub, woodland; often common after fire; 100–1500 m, rare in OR, common throughout CA.	MIIH
<i>Ranunculus cooleyae</i>	Cooley's buttercup	G5/S2/—	WA-SEN	1	Montane gravelly alluvial slopes, talus slopes, stream outlets, lake edges, edges of receding snowfields. Elevation 2500-6000 ft.	MIIH
<i>Ranunculus populago</i>	Mountain buttercup	G4/S2/—	WA-SEN	2	Riparian	MIIH
<i>Rhamnus ilicifolia</i>	Redberry	G5/—/S1	OR-SEN	1	Quercus chrysophila woodland with open dry chaparral of Ceanothus cuneatus and Garrya fremontii	MIIH
<i>Rhynchospora alba</i>	White beakrush	G5/—/S2	OR-SEN	3	Wet meadows	MIIH
<i>Ribes oxyacanthoides</i> ssp. <i>irriguum</i>	Idaho gooseberry	G5/S2/S3	WA-SEN	2	Dry forest	MIIH
<i>Ribes wolfii</i>	Wolf's currant	G4/S2/—	WA-SEN		Riparian	MIIH
<i>Romanzoffia thompsonii</i>	Thompson's mistmaiden	G3/—/S3	OR-SEN	3	Vernally wet rock outcrops, cliffs, scree	MIIH
<i>Rorippa columbiae</i>	Columbia cress	G3/S1S2/S3	SEN	1	Shorelines, freshwater beaches	MIIH
<i>Rotala ramosior</i>	Lowland toothcup	G5/S2/S2	SEN	1	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Rubus arcticus</i> ssp. <i>acaulis</i>	Nagoonberry	G5/S1/—	WA-SEN	1	Tundra to mountain meadows, bogs, and woods. In Washington, grows in damp to wet Picea engelmannii forests, just out from the forest edge.	MIIH
<i>Rubus bartonianus</i>	Bartonberry	G2/—/S2	OR-SEN	1	Riparian bench	MIIH

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<i>Salix candida</i>	Hoary willow	G5/S1/—	WA-SEN	1	Bogs, fens, and swampy areas in peat soils, 2000-3000 ft.	MIIH
<i>Salix farriae</i>	Farr's willow	G4/—/S2	OR-SEN	2	Subalpine wetland and riparian areas	MIIH
<i>Salix maccalliana</i>	Maccall's willow	G5/S1/—	WA-SEN	1	Bogs, fens, swamps, and marshes in open, low-lying sites in peat soils, 2400-3000 ft.	MIIH
<i>Salix pseudomonticola</i>	False mountain willow	G5/S1/—	WA-SEN	1	Fens, 2900 ft.	MIIH
<i>Saxifraga adscendens ssp. oregonensis</i>	Wedge-leaf saxifrage	G5/—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Saxifraga cernua</i>	Nodding saxifrage	G5/S1/—	WA-SEN	1	Stream banks, seeps, moist rocks and cliffs	MIIH
<i>Saxifragopsis fragarioides</i>	Joint-leaved saxifrage	G3?/S2/S1	SEN	2	Occurs in cracks and crevices on cliffs and in rock outcrops and talus	MIIH
<i>Scheuchzeria palustris ssp. americana</i>	Scheuchzeria	G5/—/S2	OR-SEN	4	Fens, Wetlands	MIIH
<i>Schoenoplectus subterminalis</i>	Water clubrush	G5/—/S2	OR-SEN	1	Fens, Wetlands	MIIH
<i>Scirpus pendulus</i>	Drooping bulrush	G5/—/S1	OR-SEN	1	Marshes and wet meadows, river terraces, ditches, 2500 to 3000 ft. in Clackamas, Curry, Jackson, Josephine, Linn and Marion Cos., OR; one site in CA near Yreka.	MIIH
<i>Scribneria bolanderi</i>	Scribner's grass	G4/S1/S4	WA-SEN	2	Dry, sandy to rocky soils, seepages, vernal pools, and sometimes along roadsides. Elevation 1640-9800 ft.	MIIH

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<i>Sedella pumila</i>	Sierra mock-stonecrop	G3?/—/S1	OR-SEN?		Gravelly soils, vernal pools, thin soil on outcrops of serpentine, limestone, lava, or granite, often in mat of moss	MIIH
<i>Sedum moranii</i>	Rogue River stonecrop	G2/—/S2	OR-SEN	1	Rock outcrops in lower canyons. Found on greenstone outcrops on west or southwest slopes. Rogue River Canyon, Josephine Co., OR.	MIIH
<i>Sericocarpus oregonensis</i> var. <i>oregonensis</i>	Oregon white-top aster	G5/S1/—	WA-SEN	1	Grasslands, forest openings, and savanna	MIIH
<i>Sidalcea hirtipes</i>	Bristly-stemmed sidalcea	G2/S2/S2	SEN	2	Grassland on steep slopes	MIIH
<i>Silene scouleri</i> ssp. <i>scouleri</i>	Scouler's catchfly	G5/S1/—	WA-SEN		Coastal bluff scrub; Coastal prairie; Valley and foothill grassland	MIIH
<i>Silene seelyi</i>	Seely's silene	G3/S3/—	WA-SEN	1	Engelmann Spruce-Subalpine Fir; Grand Fir/White Fir	MIIH
<i>Sisyrinchium montanum</i> var. <i>montanum</i>	Strict blue eyed-grass	G5/S1/—	WA-SEN	1	Moist meadows, streambanks, mossy springs, and open woods in steppe and ponderosa pine woodlands	MIIH
<i>Sisyrinchium sarmentosum</i>	Pale blue-eyed grass	G2/S2/S1	SEN	5	Mesic meadows; Dry meadows	MIIH
<i>Solanum parishii</i>	Parish's horse-nettle	G4/—/S2	OR-SEN	1	Chaparral, oak/pine woodlands, meadows and brush fields in dry PSME or QUGA communities. Jackson, Josephine Cos., OR; south to Baja.	MIIH

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<i>Sophora leachiana</i>	Western sophora	G2/—/S2	OR-SEN	1	South or west facing slopes on disturbed open, sunny habitat. Mixed conifer hardwood vegetation. Endemic to small area in Josephine Co., OR.	MIIH
<i>Spartina pectinata</i>	prairie cordgrass	G5/S2/—	WA-SEN	2	Riparian	MIIH
<i>Spiranthes porrifolia</i>	Western ladies-tresses	G4/S2/—	WA-SEN	2	Riparian	MIIH
<i>Streptanthus glandulosus</i> ssp. <i>josephinensis</i>	Common jewel flower	G4/—/S1	OR-SEN	1	Serpentine slope	MIIH
<i>Streptanthus howellii</i>	Howell's streptanthus	G2G3/—/S2	OR-SEN	1	Dry rocky serpentine slopes in open conifer/ hardwood forests from 1000 to 4500 ft. SW OR, NW CA.	MIIH
<i>Streptopus streptopoides</i>	Kruhsea	G5/—/S2	OR-SEN	2	Dense, damp, montane coniferous forest. June-Aug.	MIIH
<i>Suksdorfia violacea</i>	Violet suksdorfia	G4/—/S1	OR-SEN	2	Riparian	MIIH
<i>Sullivantia oregana</i>	Oregon sullivantia	G2/S1/S2	SEN	1	Moist cliffs near waterfalls. June-July	MIIH
<i>Swertia perennis</i>	Swertia	G5/S1/S2	SEN	4	Subalpine wet	MIIH
<i>Synthyris pinnatifida</i> var. <i>lanuginosa</i>	featherleaf kittenstails	G4/S3?/—	WA-SEN	1	Dry rocky places with cushion plants	MIIH
<i>Tauschia howellii</i>	Howell's tauschia	G2/—/S1	OR-SEN	1	Dry exposed ridges in gravelly granitic and serpentine flats, in coniferous forests at high elevations (6,600-7,100ft). Jackson Co., OR; Siskiyou Co., CA.	MIIH
<i>Tauschia stricklandii</i>	Strickland's tauschia	G4/—/S1	OR-SEN	1	Wet, cool meadows-dry in late summer. June-Sept.	MIIH
<i>Thelypodium eucosmum</i>	Arrow-leaf thelypody	G2/—/S2	OR-SEN	2	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH

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<i>Townsendia montana</i>	Mountain townsendia	G4/—/S1	OR-SEN	1	Subalpine	MIIH
<i>Townsendia parryi</i>	Parry's townsendia	G4?/—/S1	OR-SEN	1	Subalpine	MIIH
<i>Toxicoscordion exaltatum</i>	Giant death camas	G4/—/S1	OR-SEN	1	Chaparral	MIIH
<i>Trifolium douglasii</i>	Douglas' clover	G2/S1/S2	SEN	2	Warm riparian forest (aspen, cottonwood), shrublands, and wetlands	MIIH
<i>Trifolium thompsonii</i>	Thompson's clover	G3/S3/—	WA-SEN	1	Fescue-Bunchgrass; Interior Ponderosa Pine	MIIH
<i>Trillium kurabayashii</i>	Siskiyou trillium	G4G5/—/S1	OR-SEN	1	Oak-tanoak-pine woods, edges	MIIH
<i>Trollius albiflorus</i>	American globeflower	G5/—/S1	OR-SEN	1	Subalpine wetland and riparian areas	MIIH
<i>Utricularia intermedia</i>	Flat-leaved bladderwort	G5/S2S3/—	WA-SEN	1	Shallow ponds, slow-moving streams, and wet sedge or rush meadows, to 4000 ft.	MIIH
<i>Utricularia minor</i>	Lesser bladderwort	G5/S2?/S4	OR-SEN	8	Aquatic	MIIH
<i>Utricularia ochroleuca</i>	Northern bladderwort	G4?/—/S1	OR-SEN	1	Riparian	MIIH
<i>Vaccinium myrtilloides</i>	Velvet-leaf blueberry	G5/S1/—	WA-SEN	1	Dry or moist, sandy or rocky clearings and open forests, also in sphagnum bogs and swamps, 2000-3000 ft.	MIIH
<i>Viola primulifolia</i> ssp. <i>occidentalis</i>	Western bog violet	G5/—/S2	OR-SEN	1	Hanging fens above creeks	MIIH
<i>Wolffia columbiana</i>	Columbia water-meal	G5/—/S1	OR-SEN	1	Standing water	MIIH