

Appendix D

Rare, Threatened, or Endangered Plants: Species List, Status, and Habitat

The Elliott State Forest is rich in plant life. The following discussion focuses just on rare, threatened, and endangered plants that could potentially occur on the Elliott. None of the species listed here are actually known to occur on the Elliott. Using their professional judgment, botanists have created these lists based upon known plant distributions and habitat requirements. The fact that a plant is or is not listed does not mean that it is or is not present on the Elliott.

The following lists are divided into three categories: (1) vascular plants; (2) mosses and liverworts; (3) fungi and lichens. (Plant taxonomists may disagree as to whether fungi and lichens actually belong to the plant kingdom.)

In addition to species with threatened or endangered status under the state and federal Endangered Species Acts, the lists include other rare plants selected by the Oregon Natural Heritage Program.

Definitions

The federal and state categories are:

- LE Listed Endangered. Taxa listed by U.S. Fish & Wildlife Service as endangered under the Endangered Species Act or by the Oregon Department of Agriculture under the Oregon Endangered Species Act of 1987.
- C1 Federal Category 1 candidate. USFWS has substantial information to support listing the species, but it is not listed yet.
- C2 Federal Category 2 candidate. Additional information is needed in order to propose as threatened or endangered.
- 3C Federal. Taxa which have proven to be more abundant or widespread than previously believed and/or which have no identifiable threats.
- C Oregon state list of candidate species under review for listing as threatened or endangered.

The Oregon Natural Heritage Program's (ONHP) lists are defined as follows:

- List 1 Taxa which are endangered or threatened throughout their range or which are presumed extinct.
- List 2 Taxa which are endangered, threatened, or possibly extirpated from Oregon, but are more common or stable elsewhere.
- List 3 Species for which more information is needed before status can be determined, but which may be threatened or endangered in Oregon or throughout their range.
- List 4 Taxa of concern which are not currently threatened or endangered. Includes taxa which are very rare but are currently secure, as well as taxa which are declining in numbers or habitat but are still too common to be proposed as threatened or endangered.

Physiographic Provinces

Oregon is divided into ten distinct biomes based on geologic and vegetative patterns. These are modified from the 1973 publication *Natural Vegetation of Oregon and Washington* by Franklin and Dyrness, and match maps in the *Oregon Nongame Plan* (1986) and the *Oregon Natural Heritage Plan* (1988). The biomes (physiographic provinces) are coded as follows:

- CR Oregon Coast Range
- WIV Western Interior Valleys
- SIS Siskiyou Mountains
- WSC West Side & Crest of Oregon Cascades
- ESC East Side of Oregon Cascades
- OBW Ochoco, Blue, and Wallowa Mountains
- B&R Basin and Range
- HLP High Lava Plains
- OU Owyhee Uplands
- CB Columbia Basin

Vascular Plants

Sue Vrillakas, from the Oregon Natural Heritage Program, named 57 rare, threatened, and endangered vascular plants that could potentially occur on the Elliott State Forest. Bob Meinke, from the Oregon Department of Agriculture (ODA), commented informally on this list. Bruce Rittenhouse, the Bureau of Land Management's Coos Bay District Botanist, provided a local perspective including habitat characteristics and recollections of his own sightings. Additional information on habitat characteristics and population distributions was obtained from the book *Rare and Endangered Plants of Oregon* (Eastman 1990).

The 57 plant species listed in this appendix are split into two groups:

- A. Members of ONHP lists 1 and 2.
- B. Members of ONHP lists 3 and 4. Plants in lists 3 and 4 are not as likely to achieve state or federal listed status.

The information for vascular plants is presented in this format:

Scientific name (common name) — ONHP list, USFWS status, ODA status

- ONHP Information from Oregon Natural Heritage Program
 - (a) provided by Sue Vrillakas
 - (b) from May, 1991 ONHP publication
- B.R. Information provided by Bruce Rittenhouse,
BLM Coos Bay District Botanist.
- D.E. Information obtained from Donald C. Eastman's book.

Key to abbreviations above:
ONHP — Oregon Natural Heritage Program
USFWS — U.S. Fish and Wildlife Service
ODA — Oregon Department of Agriculture
BLM — Bureau of Land Management

Members of ONHP Lists 1 and 2

None of the species listed here are known to occur on the Elliott. The fact that a plant is or is not listed does not mean that it is or is not present on the Elliott.

***Asplenium septentrionale* (grass-fern) — ONHP 2, federal (none), state (none)**

ONHP Rock outcrops. WSC province. Douglas County. California.

D.E. In Oregon, grows on the shady, moist, north faces of large rocks. A wide-ranging species, rarely seen. Two small populations known in the vicinity of the North Umpqua in Oregon. Also reported in California, Utah, South Dakota, Oklahoma, New Mexico, Europe, and Asia.

***Aster vialis* (wayside aster) — ONHP 1, federal C2, state C**

ONHP Mixed deciduous/coniferous forest. WIV province. Douglas and Lane Counties.

D.E. Open woodlands of the upper Willamette Valley. Extremely rare throughout its limited range. Thought extinct; rediscovered near Eugene.

***Astragalus umbraticus* (woodland milk-vetch) — ONHP 2, federal (none), state (none)**

ONHP Douglas-fir forests. WIV, SIS, WSC provinces. Douglas, Josephine, Lane Counties. California.

Botrychium... General remark regarding the following *Botrychium* species:

B.R. Most of the *Botrychiums* are Wallowa Mountain species and would be very unlikely on the Elliott.

***Botrychium ascendens* (upward-lobed moonwort) — ONHP 1, federal C2, state C**

ONHP No habitat description. OBW province. Wallowa County. California, Idaho, Montana, Nevada, Washington, Alberta, British Columbia, Ontario.

***Botrychium crenulatum* (crenulate moonwort) — ONHP 1, federal C2, state C**

ONHP No habitat description. OBW, B&R provinces. Wallowa and Harney counties. Arizona, California, Idaho, Montana, Utah.

Botrychium lanceolatum (lance-leaved grape-fern) — ONHP 2, federal (none), state (none)

ONHP Moist areas in wooded or open areas. WSC, ESC, OBW, B&R provinces. Clackamas, Harney, Wallowa, Wasco counties. Washington, Idaho, plus other states not adjacent to Oregon.

Botrychium lunaria (moonwort) — ONHP 2, federal (none), state (none)

ONHP Moist areas in coniferous forests. ESC, OBW, B&R provinces. Clackamas, Grant, Harney, Hood, Wallowa, Wasco counties. Nevada, Washington, plus other states not adjacent to Oregon.

Botrychium minganense (gray moonwort) — ONHP 2, federal (none), state (none)

ONHP Various — meadows, woods, sand dunes, river banks. WSC, OBW provinces. Linn, Wallowa counties. California, Idaho, Washington, plus other states not adjacent to Oregon.

Botrychium montanum (mountain grape-fern) — ONHP 2, federal (none), state (none)

ONHP Various — moist areas within coniferous forests, along trails. WSC, ESC provinces. Marion, Wasco counties. California, Washington, British Columbia, plus other states not adjacent to Oregon.

Botrychium pinnatum (pinnate grape-fern) — ONHP 2, federal (none), state (none)

ONHP Wet areas, usually open at higher elevations. ESC, OBW, B&R provinces. Harney, Wallowa, Wasco counties. Washington, Idaho, plus other states not adjacent to Oregon.

Carex livida (pale sedge) — ONHP 2, federal (none), state (none)

ONHP Wet meadows, boggy areas. CR, SIS, WSC provinces. Clackamas, Curry, Lincoln, Multnomah counties. California, Idaho, Washington, plus other states not adjacent to Oregon.

B.R. “The *Carex* species would be in wet situations not in timber.”

Carex macrochaeta (Alaskan long-awned sedge) — ONHP 2, federal (none), state (none)

ONHP Moist open areas, meadows, rocky slopes. CR, WSC provinces. Clatsop, Multnomah counties. Washington, plus other states not adjacent to Oregon.

B.R. “The *Carex* species would be in wet situations not in timber.”

Cheilanthes intertexta (coastal lipfern) — ONHP 2, federal (none), state (none)

ONHP Rock crevices. SIS province. Douglas and Jackson counties. California.

Cimicifuga elata (tall bugbane) — ONHP 1, federal (none), state C

ONHP Edges of open, mixed coniferous-deciduous forests. WIV, WSC provinces. Benton, Columbia, Douglas, Lane, Linn, Marion, Multnomah, Polk, Yamhill counties. Washington, British Columbia.

B.R. “I have seen this species on the Eugene District, McKenzie Resource Area, in the foothills east of Eugene. According to Nancy Wogen, district botanist, no populations are known in the coast range. The location where I saw the plant could have easily been in [the Coos Bay District] and the Elliott. The site was a north-facing slope with Douglas-fir, hemlock, and scattered maples with an understory of sword fern. It looked like our whole north end of the [Coos Bay] District. According to Nancy, it occurs from base of slope up to the shoulder.”

Cypripedium fasciculatum (clustered lady's slipper) — ONHP 1, federal (none), state C

ONHP Coniferous forests. SIS, OBW provinces. Blake, Curry, Douglas, Jackson, Josephine counties. Six other states in western U.S.

D.E. Habitat is in open woods of coniferous forests. This small rare orchid is known only from scattered populations in Oregon, Washington, California, Idaho, and Utah.

Dryopteris filix-mas (male fern) — ONHP 2, federal (none), state (none)

ONHP Various — river bottomland, mixed conifer-deciduous forests, rocky areas, rock cliffs in conifer forests. CR, OBW, OU provinces. Columbia, Grant, Malheur, Umatilla, Union counties. California, Washington, Idaho, plus other states not adjacent to Oregon.

Eriophorum chamissonis (russet cotton-grass) — ONHP 2, federal (none), state (none)

ONHP Bogs & marshes. CR province. Coos and Lane counties. British Columbia.

Erythronium elegans (Coast Range fawn-lily) — ONHP 1, federal C2, state C (may move up to state endangered or threatened list in 1993)

ONHP Wet meadows, bogs. CR province. Lincoln, Polk, Tillamook counties.

D.E. This recently described *Erythronium* is also known as the Mt. Hebo fawn-lily because of the sizable population on that mountain.

B.R. Occurs in north coast range — talk to Larry Schofield at the Salem District.

Hydrocotyle verticillata (whorled marsh-pennywort) — ONHP 2, federal (none), state (none)

ONHP Slow moving waters, ponds. WIV, SIS provinces. Benton, Coos, Curry, Coughlas counties. California, plus other states not adjacent to Oregon.

Iliamna latibracteata (California globe-mallow) — ONHP 2, federal (none), state (none)

ONHP Moist, shaded areas. SIS province. Coos, Curry, Douglas, Josephine Counties. California.

D.E. Grows in the coastal ranges in southwest Oregon in Coos, Curry, Douglas, and Josephine Counties, and south into Humboldt County, California.

B.R. “I have seen this species growing along the Sixes River just above riparian zone under Douglas-fir and maple. This species ranges from WA to CA in scattered locations along riparian zones. We have a few other sites which I have not been to but they occur along streams. Another location is at Silver and Golden Falls State Park near Allegany. This species probably occurs somewhere in the Elliott.”

Lilium occidentale (western lily) — ONHP 1, federal C1, state Listed Endangered

ONHP Bog/wetlands at low elevations. CR, SIS provinces. Coos, Curry Counties. California.

B.R. “It only occurs along the immediate coast from Hauser, Oregon into California. There is no Elliott State Forest land in the vicinity and no habitat occurs on the forest.”

D.E. Grows only on the periphery of bogs near the ocean from Coos County, Oregon to Humboldt County, California.

Lycopodium inundatum (bog club-moss) — ONHP 2, federal (none), state (none)

ONHP Wet areas. CR, WSC provinces. Clackamas, Coos, Douglas, Lane, Lincoln, Linn Counties. California, Idaho.

B.R. “Occurs in bogs and seeps usually on mosses. I have seen this plant only along the coast, but the ranges indicate that it does grow inland.”

Microcala quadrangularis (timwort) — ONHP 2, federal (none), state (none)

ONHP Open meadows, grasslands. CR, WIV provinces. Coos, Douglas, Lane, Linn Counties. California, plus other states not adjacent to Oregon.

D.E. Exists over a wide range, but has been found in only a few widely separated locations in the upper Willamette and Umpqua valleys in Oregon, in northeast California, and in Peru in South America.

Mimulus kelloggii (Kellogg's monkeyflower) — ONHP 2, federal (none), state (none)

ONHP Open chaparral. SIS province. Douglas, Jackson Counties. California.

D.E. Grows in open places of coniferous forests in clay-like soil. California species first identified in Oregon in 1977. Still found in just a few places in Douglas and Jackson Counties in southwest Oregon.

Montia howellii (Howell's montia) — ONHP 1, federal C2, state C

ONHP Open, gravelly, disturbed areas. WIV, WSC provinces. Benton, Columbia, Lane, Linn, Multnomah Counties. California, Washington, British Columbia.

B.R. Occurs in Willamette Valley.

Ophioglossum vulgatum (adder's-tongue) — ONHP 2, federal (none), state (none)

ONHP Vernal wet areas. CR, WSC provinces. Clackamas, Lane, Linn Counties. California, Idaho, Washington, plus other states not adjacent to Oregon.

B.R. “I have seen this plant in deflation plane along the coast in the ODNRA [Oregon Dunes National Recreation Area].”

Pellaea andromedaefolia (coffee fern) — ONHP 2, federal (none), state (none)

ONHP Rock crevices. WIV, WSC provinces. Douglas, Lane Counties. California.

***Poa laxiflora* (loose-flowered bluegrass) — ONHP 2, federal (none), state (none)**

ONHP Mixed coniferous-deciduous forests. CR, WSC provinces. Benton, Clackamas, Lane, Lincoln, Multnomah, Polk, Tillamook, Yamhill Counties. Washington, plus other states not adjacent to Oregon.

***Polystichum californicum* (California sword-fern) — ONHP 2, federal (none), state (none)**

ONHP Woods, rock crevices or ledges. CR, SIS, WSC provinces. Coos, Curry, Douglas, Linn Counties. California, Washington, plus other states not adjacent to Oregon.

B.R. “A small fern that grows in rock crevices on south facing slopes. Have seen it only south of highway 42 east of Myrtle Point, but it ranges north to WA. Any rocky area is potential habitat.”

***Romanzoffia “thompsonii”* (Thompson's mistmaiden) — ONHP 1, fed (none), state (none)**

ONHP Vernal wet, rocky areas. SIS, WSC provinces. Douglas, Jackson, Lane, Linn, Marion Counties.

B.R. Occurs on mossy, open areas.

***Utricularia gibba* (humped bladderwort) — ONHP 2, federal (none), state (none)**

ONHP Ponds. WIV province. Benton, Lane Counties. California, Washington, plus other states not adjacent to Oregon.

B.R. Aquatic.

***Utricularia minor* (lesser bladderwort) — ONHP 2, federal (none), state (none)**

ONHP Ponds. WSC, ESC provinces. Clackamas, Jackson, Klamath, Lane Counties. California, Nevada, Washington, plus other states not adjacent to Oregon.

B.R. Aquatic.

***Wolffia columbiana* (Columbia water-meal) — ONHP 2, federal (none), state (none)**

ONHP Ponds. WIV, WSC provinces. Clackamas, Jackson Counties. California, plus other states not adjacent to Oregon.

B.R. Aquatic.

Wolffia punctata (dotted water-meal) — ONHP 2, federal (none), state (none)

ONHP Ponds. WIV province. Benton, Lane Counties. California, Washington, plus other states not adjacent to Oregon.

B.R. Aquatic.

Members of ONHP Lists 3 and 4

The following species are less likely to achieve state or federal threatened or endangered status. The distribution and habitat information for these species was obtained from the Oregon Natural Heritage Program.

None of the species listed here are known to occur on the Elliott. The fact that a plant is or is not listed does not mean that it is or is not present on the Elliott.

Astragalus accidens (thicket milkvetch) — ONHP 3

Open Douglas fir - pine woodlands. WIV, SIS provinces. Douglas, Jackson, Josephine Counties. California.

Botrychium virginianum (Virginia grape-fern) — ONHP 4

Moist/mesic areas. WSC, ESC, OBW provinces. Clackamas, Douglas, Grant, Hood, Lane, Linn, Wallowa Counties. Washington, Idaho, plus other states not adjacent to Oregon.

Carex buxbaumii (Bauxbaum's sedge) — ONHP 3

Bogs and wet areas. SIS, WSC, ESC provinces. Curry, Deschutes, Jackson, Klamath, Lane Counties. California, Idaho, Washington, plus other states not adjacent to Oregon.

Carex comosa (bristly sedge) — ONHP 3

Wet areas, bogs, swamps, riparian areas. WIV, WSC, ESC provinces. Columbia, Douglas, Lane, Multnomah Counties. California, Washington, Idaho, plus other states not adjacent to Oregon.

Carex hystrix (porcupine sedge) — ONHP 3

Wet areas, seeps, bogs, marshes. WSC, OBW, OU provinces. Lane, Malheur, Wallowa Counties. California, Washington, plus other states not adjacent to Oregon.

Cyperus bipartitus (shining cyperus) — ONHP 3

Wetlands. CR, CB provinces. Coos, Umatilla, Wasco Counties. California, Idaho, Washington, plus other states not adjacent to Oregon.

Cypripedium montanum (mountain lady's slipper) — ONHP 4

Coniferous forests. SIS, WIV, WSC, ESC, OBW provinces. 19 counties. California, Idaho, Washington, plus other states not adjacent to Oregon.

Darlingtonia californica (California pitcher plant) — ONHP 4

Bogs. OBW, SIS provinces. Coos, Curry, Douglas, Josephine, Lane, Lincoln, Tillamook Counties. California.

Dichelostemma ida-maia (firecracker flower) — ONHP 4

Douglas fir forest. WIV, SIS provinces. Curry, Douglas, Josephine Counties. California.

Dulichium arundinaceum (dulichium) — ONHP 4

Wet areas. CR, WSC provinces. Clackamas, Coos, Klamath, Lane Counties. California, Idaho, Washington, plus other counties not adjacent to Oregon.

Erythronium revolutum (coast fawn-lily) — ONHP 4

Riverbanks, roadsides, edges of woods. CR, SIS provinces. Clatsop, Coos, Curry, Benton, Douglas, Lane, Lincoln, Polk, Tillamook, Yamhill Counties. Washington, British Columbia.

Isopyrum stipitatum (dwarf isopyrum) — ONHP 3

Deciduous woods. WIV province. Benton, Douglas, Marion, Polk, Yamhill Counties. California.

Lewisia cotyledon (Howell's lewisia) — ONHP 4, federal 3C

Mixed conifer-deciduous forest. SIS province. Curry, Jackson, Josephine Counties. California.

Mimulus douglasii (Douglas' monkeyflower) — ONHP 4

Open bare areas, balds. SIS province. Curry, Douglas, Jackson, Josephine Counties. California.

Montia diffusa (branching montia) — ONHP 4

Coniferous forests. ESC, WIV, WSC provinces. Clackamas, Curry, Douglas, Hood, Josephine, Lane, Linn, Marion, Multnomah, Washington Counties. California, Washington, plus other states not adjacent to Oregon.

Myrica gale (sweet gale) — ONHP 3

Peat bogs. CR, WSC provinces. Clatsop, Curry, Lincoln, Multnomah Counties. Washington plus other states not adjacent to Oregon.

Phacelia capitata (capitate phacelia) — ONHP 4, federal 3C

Meadows. WIV, SIS, WSC provinces. Coos, Douglas, Jackson Counties. No other states.

Phacelia verna (spring phacelia) — ONHP 4, federal 3C

Moist banks, rock outcrops. CR, WIV, WSC provinces. Coos, Douglas, Lane Counties. No other states.

Rosa spithamea (ground rose) — ONHP 3

Mixed conifer-deciduous forest. WIV, SIS, WSC provinces. Curry, Douglas, Jackson, Josephine Counties.

Sidalcea cusickii (Cusick's checker-mallow) — ONHP 4

Meadows. CR, WIV, WSC provinces. Coos, Douglas, Lane, Linn Counties. No other states.

Sidalcea malvaeflora (Del Norte sidalcea) — ONHP 4

Variable, coastal headlands, coniferous forests. WIV, SIS provinces. Curry, Josephine Counties. California.

Trillium kurabayashii (Siskiyou trillium) — ONHP 3

Open woods and meadows. SIS province. Curry, Josephine Counties. California.

Vaccinium oxycoccus (wild cranberry) — ONHP 4

Bogs. CR, WSC provinces. Clackamas, Clatsop, Douglas, Lane, Lincoln, Linn, Marion, Multnomah, Tillamook Counties. Washington, Idaho, plus states not adjacent to Oregon.

Mosses and Liverworts

John Christy, from the Oregon Natural Heritage Program, supplied the following list of mosses and liverworts which could potentially occur on Elliott State Forest. The members of this list currently belong to ONHP Lists 1 and 2, or are expected to be upgraded to those lists soon. (Note: Two of the species are “probably not in the Elliott” even though they occur elsewhere in the Coast Range province.)

The following information was obtained from John Christy and from the May 1991 publication of the Oregon Natural Heritage Program.

None of the species listed here are known to occur on the Elliott. The fact that a plant is or is not listed does not mean that it is or is not present on the Elliott.

***Calypogeja sphagnicola* (liverwort) — ONHP 2, federal (none), state (none)**

Peat bogs. CR province. Curry, Lane, Lincoln, Tillamook Counties. Washington and other states not adjacent to Oregon.

Is known to occur in bogs on BLM uplands in the northern coast range.

***Encalypta brevicolla* (moss) — ONHP 1, federal (none), state (none)**

Basalt outcrops. SIS province. Curry County. Also in Washington state.
Known to occur in Klamath Mountains. Probably not in the Elliott.

***Herbertus sakuraii* (liverwort) — ONHP (none), federal (none), state (none)**

Will be upgraded to ONHP list 2 in the next publication.

Rock outcrops. CR province. Clatsop County. British Columbia, Alaska, Asia.

***Iwatsukiella leucotricha* (moss) — ONHP (none), federal (none), state (none)**

Will be upgraded to ONHP list 2 in the next publication.

Trees and rock outcrops. CR province. British Columbia, Alaska, Asia.

***Limbella fryei* (moss) — ONHP 1, federal (none), state C**

May get federal C1 or C2 status.

Wetlands, willow scrub swamp. CR province. Coos, Lane Counties.

Probably not in the Elliott. Only two known populations:

1. **Extinct:** Coos County south of Empire (in or near Shore Acres State Park)
2. Lane County north of Florence

Lophozia laxa (liverwort) — ONHP 2, federal (none), state (none)

Peat bog. CR, WSC provinces. Lane, Linn, Tillamook Counties. Washington and other states not adjacent to Oregon.

Pohlia sphagnicola (moss) — ONHP 2, federal (none), state (none)

Peat bog. CR province. Tillamook County. Washington and other states not adjacent to Oregon.

Polytrichum strictum (moss) — ONHP 2, federal (none), state (none)

Peat bog. CR province. Clatsop County. Washington and other states not adjacent to Oregon.

Tetraplodon mnioides (moss) — ONHP 3, federal (none), state (none)

Will be upgraded to ONHP list 2 in the next publication.

Peat bog. CR province. Lincoln County. Washington and other states not adjacent to Oregon.

Fungi and Lichens

No fungi or lichens in the State of Oregon are listed as threatened or endangered under the state or federal ESAs. Only three species belong to the Oregon Natural Heritage Program's Lists 1 or 2. Twenty species belong to ONHP List 3. John Christy advises that most of the species on the ONHP lists are “old growth-dependent”, therefore are not likely to occur on the Elliott State Forest.