

Oregon Status Factors

Elcode NBHEP15080
Gname DIPLOPHYLLUM PLICATUM
Gcomname LIVERWORT

Number of Occurrences

B = 6 - 20

Comments About 18 occurrences are known in Oregon.

Number of Occurrences with Good Viability

C = Few (4-12) occurrences with good viability

Comments Estimated 10 occurrences in Oregon with good viability.

Population Size

E = 2,500-10,000 individuals

Comments Estimated 5000 individuals in Oregon.

Range Extent

E = 5,000-20,000 km² (about 2,000-8,000 square miles)

Comments Estimated range is 80,000 square miles in Oregon. Apparently restricted to the Coast Range, but possible in the Cascade Range.

Area of Occupancy

A = <0.4 km² (less than about 100 acres)

LA = <4 km (less than about 2.5 miles)

Comments Estimated area of occupancy is 10 acres in Oregon.

Long-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

D = Moderate Decline (decline of 25-50%)

Comments Moderate, long-term decline of 25-50% in Oregon. Local impacts from logging.

Short-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

D = Declining. Decline of 10-30% in population, range, area occupied, and/or number or condition of occurrences

Comments Short-term decline of 10-30% in Oregon, due to logging in coastal forests.

Threats

E = Localized substantial threat. Threat is moderate to severe for a small but significant proportion of the population, occurrences, or area. Ecological community occurrences are directly impacted over a small area, or in a small portion of their range, but threats require a long-term recovery.

Scope Low **Severity** Moderate **Immediacy** Moderate

Comments Localized substantial threat. Logging of coastal forests is primary threat.

Number of Appropriately Protected and Managed Occurrences

B = Few (1-3) occurrences appropriately protected and managed

Comments One occurrence is protected in Oregon.

Intrinsic Vulnerability

C = Not Intrinsicly Vulnerable. Species matures quickly, reproduces frequently, and/or has high fecundity such that populations recover quickly (< 5 years or 2 generations) from decreases in abundance; or species has high dispersal capability such that extirpated populations soon become reestablished through natural recolonization (unaided by humans). Ecological community occurrences are resilient or resistant to irreversible changes in composition and structure and quickly recover (within 10 years).

Comments Not intrinsically vulnerable. Plants are small and fragile, but reproduce readily by spores and fragmentation of gametophytes. Plants will recolonize sites when suitable habitat and substrate are present, but this depends on the availability of inoculum from nearby populations.

Environmental Specificity

B = Narrow. Specialist or community with key requirements common.

Comments Narrow environmental specificity. Located on bark, rotting wood, humus, mineral soil, and rock. Requires high humidity and perennially cool temperatures.

Other Considerations

ORNHIC - List 2.

Edition 2/20/2003 **Edauthor** John A. Christy

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Reasons

About 18 occurrences are known in Oregon. Estimated 10 occurrences in Oregon with good viability. Estimated 5000 individuals in Oregon. Estimated range is 80,000 square miles in Oregon. Estimated area of occupancy is 10 acres in Oregon. Moderate long-term decline of 25-50% in Oregon. One occurrence is protected in Oregon. Not intrinsically vulnerable. Narrow environmental specificity.

BCD Sources

New Sources

USDA Forest Service, USDI Bureau of Land Management, USDI Fish and Wildlife Service. 2002. Interagency Species Management System [ISMS] database. Portland, Oregon.
Christy, J.A. & D.H. Wagner. 1996. Guide for the identification of rare, threatened or sensitive bryophytes in the range of the northern spotted owl, western Washington, western Oregon, and northwestern California. USDI Bureau of Land Management. 200 pp.
University of Alberta. 2002. Devonian Botanic Garden bryophyte database. Edmonton, Alberta.

<<http://www.devonian.ualberta.ca/devonian/bryosearch.cfm>>.