

Heritage Rank Status Factors

Elcode NLTEST5470
Gname BRYORIA SUBCANA
Gcomname

Number of Occurrences

Comments 3 occurrences in California, 11 in Oregon, 7 in Washington. Also found in British Columbia, Alaska, eastern North America, and Europe. Appears to be sparse everywhere in its range.

Number of Occurrences with Good Viability

Comments

Population Size

Comments

Range Extent

H = > 2,500,000 km² (greater than 1,000,000 square miles)

Comments Coastal Alaska to Santa Cruz, California, within 50 km of the coast (McCune & Geiser 1997), and possibly further inland. Reported in eastern North America in the Adirondack Mountains of New York (Schull et al. 2002). Also found in Europe (Brodo & Hawksw 1977, Christiansen et al. 1979).

Area of Occupancy

G = 2,000-20,000 km² (500,000-5,000,000 acres)

H = >20,000 km² (greater than 5,000,000 acres)

LG = 20,000-200,000 km (about 12,500-125,000 miles)

LH = >200,000 km (greater than 125,000 miles)

Comments Does not appear to be plentiful in Europe,

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

E = Relatively Stable ($\pm 25\%$ change)

Comments

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

E = Stable. Population, range, area occupied, and/or number or condition of occurrences unchanged or remaining within $\pm 10\%$ fluctuation

Comments

Threats

G = Slightly threatened. Threats, while recognizable, are of low severity, or affecting only a small portion of the population, occurrences, or area. Ecological community occurrences may be altered in minor parts of range or degree of alteration falls within the natural variation of the type.

Scope Low Severity Low Immediacy Low

Comments Listed as vulnerable in Denmark due to air pollution and changed farming practices (Danish list on web).

Number of Appropriately Protected and Managed Occurrences

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

C = Several (4-12) occurrences appropriately protected and managed

Comments

Intrinsic Vulnerability

B = Moderately Vulnerable. Species exhibits moderate age of maturity, frequency of reproduction, and/or fecundity such that populations generally tend to recover from decreases in abundance over a period of several years (on the order of 5-20 years or 2-5 generations); or species has moderate dispersal capability such that extirpated populations generally become reestablished through natural recolonization (unaided by humans). Ecological community occurrences may be susceptible to changes in composition and structure but tend to recover through natural processes given reasonable time (10-100 years).

Comments Bryoria tends to be air pollution sensitive.

Environmental Specificity

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

C = Moderate. Generalist or community with some key requirements scarce.

Comments Originally only known from coastal sites. Probably strongly affected by humidity.

Other Considerations

NRANK - N2N3.

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Grank G2G4 **Grank Date** 11/30/2002

Reasons

Sparse, scattered distribution, mostly in the Pacific Northwest and northern Europe. Distribution away from the coast in OR and WA shows a broader habitat range than previously thought. However, this species appears to be sparse everywhere in its range.

BCD Sources

New Sources

McCune, B. and L. Geiser. 1997. Macrolichens of the Pacific Northwest. Oregon State University Press, Corvallis, Oregon. A co-publication with the U.S. Department of Agriculture Forest Service. 386 pp.
Wirth, V. 1995. Die Flechten Baden-Württembergs. Teil 1 & 2. Ulmer GmbH. Stuttgart.

Christiansen MS, Ramkaer K, Rose F, Sochting U. 1979. Additions to the Danish Lichen Flora. *Botanisk Tidsskrift* 74(2-3): 89-116.

Schull M, Brodo I & Hauck M. 2002. First record of *Bryoria subcana* in eastern North America. *Lichenologist* 34(1): 87-88.

Brodo IM and DL Hawksworth. 1977. *Alectoria* and allied genera in North America. *Opera Botanica* 42: 1-164

Bystrek J. 1986. Species of the genus *Bryoria* Brod & Hawksw Lichense Usnaeae in Europe. *Bull of the Polish Academy of Sciences Biological Sciences* 34(10-12): 293-300

Danish list accessed through www.lichen.com