

# Oregon Status Factors

**Elcode** NLLEC5P340

**Gname** USNEA HESPERINA

**Gcomname**

## Number of Occurrences

B = 6 - 20

**Comments** About 10 occurrences.

## Number of Occurrences with Good Viability

B = Very few (1-3) occurrences with good viability

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

**Comments**

## Population Size

A = 1-50 individuals

B = 50-250 individuals

**Comments** Difficult to differentiate in the field, so population sizes not certain.

## Range Extent

E = 5,000-20,000 km<sup>2</sup> (about 2,000-8,000 square miles)

**Comments** Coastal. Range is about 6,000 square miles, ignoring 2 possible sites in southern OR that have no collector or verifier on record. If these are really *U. hesperina*, the range is extended considerably.

## Area of Occupancy

F = 500-2,000 km<sup>2</sup> (about 125,000-500,000 acres)

LF = 5,000-20,000 km (about 3,000-12,500 miles)

**Comments** OR occupancy about 800 square miles.

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

U = Unknown. Long-term trend in population, range, area occupied, or number or condition of occurrences unknown

**Comments**

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

U = Unknown. Short-term trend in population, range, area occupied, and number and condition of occurrences unknown.

Comments

## Threats

H = Unthreatened. Threats if any, when considered in comparison with natural fluctuation and change, are minimal or very localized, not leading to significant loss or degradation of populations, occurrences, or area even over a few decades' time. (Severity, scope, and/or immediacy of threat considered Insignificant.)

Scope Insignificant      Severity Insignificant      Immediacy Insignificant

Comments    In general, Usnea is moderately sensitive to air pollution.

## Number of Appropriately Protected and Managed Occurrences

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

Comments    OR has 5 protected sites. Matrix may or may not be adequate protection.

## 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    This is a larger Usnea, maturity takes a long time, probably over 10 years.

## Environmental Specificity

A = Very Narrow. Specialist or community with key requirements scarce.

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

Comments    Hypermaritime in BC, but some sites inland in OR.

## Other Considerations

ORNHIC - List 3. Two ISMS sites in southern Oregon are suspect - there are no collectors or verifiers, and this is necessary for such a difficult to identify genus. Usnea species difficult to identify in the field and otherwise.

**Edition**      2/20/2003      **Edauthor**      Daphne Stone

**Grank**      S1S2      **Grank Date**      11/30/2002

## Greasons

About 10 populations known in Oregon, but 2 of the sites are suspect; this species is difficult to identify. Usnea in general are sensitive to air pollution.

## BCD Sources

## New Sources

Brodo, Irwin M., Sharnoff, Sylvia D. and Stephen Sharnoff. 2001. Lichens of North America. Yale University Press. New Haven and London. 795 pp.

Ohmura Y. 2001. Taxonomic study of the Genus Usnea in Japan and Taiwan. Hattori Shokubutsu Kenkyusho Hokoku (90) 1-96.

Clerc P. 1997. Notes on the Genus Usnea. Lichenologist 29(3) 209-215.

Clerc P and Herrera-

- Campos MA. 1997. Saxicolous species of *Usnea* Subgenus *Usnes* in North America. *Bryologist* 100(3): 281-301.
- Herrera-Campos MA, Clerc P, Nash TH. 1998. Pendulous species of *Usnea* from the temperate forests in Mexico. *Bryologist* 101(2): 303-329.
- Halonen P, Clerc P, Goward T, Brodo IM, Wulff K. 1998. Synopsis of the genus *Usnea*...in British Columbia, Canada. *Bryologist* 101(1): 36-60.
- Glavich, D, Geiser LH, and Mikulun A. 2002 unpubl. Assessment of the old-growth forest association and habitat requirements of federally listed coastal lichens from northern California, Oregon and Washington, USA. USDA-Forest Service
- 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.