

Oregon Status Factors

Elcode NF00CHVE12
Gname CHOIROMYCES VENOSUS

Gcomname

Number of Occurrences

A = 1 - 5

Comments Known from a single site in Oregon: The Mohawk Research Natural Area in Lane Co. (Castellano et al. 1999, OSC n.d)

Number of Occurrences with Good Viability

U = Unknown what number of occurrences with good viability

Comments A single data point is insufficient for evaluating this factor.

Population Size

Comments the only documented collection from Oregon was made in 1982 so it is questionable as to whether the species is extant in Oregon.

Range Extent

A = <100 km² (less than about 40 square miles)

Comments Known from a single site in Oregon: The Mohawk Research Natural Area in Lane Co. (Castellano et al. 1999, OSC n.d)

Area of Occupancy

Comments Short of using molecular tools there is no way to evaluate this factor.

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 need more data points to establish a trend

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 need more data points to establish a trend

Threats

C = Substantial, non-imminent threat. Threat is moderate to severe but not imminent (> 10 years) for most of the population, occurrences, or area.

Scope High Severity High Immediacy Low

Comments It appears to be at risk in North America and definitely in Oregon, as there is only a single documented site. It is more than likely mycorrhizal with forest trees, and thus threats to the vigor or existence of the partner trees also are threats to the associated fungi. Other threats include wildfire, severe wind damage, or severe insect damage to living trees.

Number of Appropriately Protected and Managed Occurrences

Comments Known from a single protected site in Oregon: The Mohawk Research Natural Area in Lane County, which is within the Eugene District McKenzie Resource Area (Castellano et al. 1999, OSC n.d);

Intrinsic Vulnerability

A = Highly Vulnerable. Species is slow to mature, reproduces infrequently, and/or has low fecundity such that populations are very slow (> 20 years or 5 generations) to recover from decreases in abundance; or species has low dispersal capability such that extirpated populations are unlikely to become reestablished through natural recolonization (unaided by humans). Ecological community occurrences are highly susceptible to changes in composition and structure that rarely if ever are reversed through natural processes even over substantial time periods (> 100 years).

Comments If the forest in which it was found is decimated this species might be eliminated from Oregon.

Environmental Specificity

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

Comments The paucity of collections for a large, conspicuous truffle indicates the species may have narrow requirements for the microclimates it can inhabit in North America and that they are seldom met.

Other Considerations

ORNHIC List 2. ISMS lists occurrences in the Mohawk RNA and the McKenzie Resource area, but it is not clear if these are the same or different localities.

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Reasons

On a world basis this species is probably in good shape; the story is quite different in North America where it has only been collected a few times, and only once in Oregon. The three North American sites are probably effectively isolated from the European ones and from one another and may be experiencing different selective pressures that could lead to at least cryptic speciation.

BCD Sources

New Sources

Castellano et al. 1999. Castellano, M.A., Smith, J.A., O'Dell, T., Cazares, E., and Nugent, S. 1999. Handbook to Strategy 1 Fungal Species in the Northwest Forest Plan. Portland, Oregon: USDA Forest Service, PNWRS

PNW-GTR-476.

For. Mycol. Team n.d. USDA Forest Service Forest Mycology Team Databases. Retrieved 2002.11.10 from <http://www.fs.fed.us/pnw/mycology/publications/data.html>.