

Heritage Rank Status Factors

Elcode NFSM000008
Gname ARCANGELIELLA CAMPHORATA

Gcomname

Number of Occurrences

B = 6 - 20

Comments 10 known sites.

Number of Occurrences with Good Viability

A = No (A- or B- ranked) occurrences with good viability

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

Comments two collections from possibly same site 4 years apart.

Population Size

A = 1-50 individuals

Comments

Range Extent

F = 20,000-200,000 km² (about 8,000-80,000 square miles)

Comments From the Siskiyou Mountains of Southern Oregon North through the Coast Range to the Olympic Peninsula and in British Columbia.

Area of Occupancy

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

B = 0.4-4 km² (about 100-1,000 acres)

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

LB = 4-40 km (about 2.5-25 miles)

Comments 9 known collections

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

B = Moderate and imminent threat. Threat is moderate to severe and imminent for a significant proportion (20-60%) of the population, occurrences, or area. Ecological community occurrences are directly impacted over a moderate area, either causing irreversible damage or requiring a long-term recovery.

Scope Moderate Severity Moderate Immediacy Moderate

Comments This is a mycorrhizal species it is dependent on a host tree for its carbohydrates. Studies have shown that if the tree is killed the mycorrhizal fungi die shortly after. The one possibly saving feature of this species is the spore bank. However, nothing is known about the spore bank of this species.

Number of Appropriately Protected and Managed Occurrences

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

Comments

Intrinsic Vulnerability

U = Unknown

Comments

Environmental Specificity

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

Comments

Other Considerations

NRANK - N2

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Grank G2 **Grank Date** 11/11/2002

Reasons

There are 3 collections from the Olympic Peninsula, 4 Central Oregon Coast Range and 5 Southern Oregon Klamath mountains. The Central Oregon Coast Range is well characterized for Truffle like fungi and there are only 3 sites for this species. This indicates that it is probably a rare fungus.

BCD Sources

New Sources

Pegler, D.N., T.W.K. Young. 1979. The gastroid Russulales. Trans. Brit. Mycol. Soc. 72:353-388. Singer, R., A.H. Smith. 1960. Studies on Secotiaceous fungi. IX. The astrogastraceous series. Mem. Torr. Bot. Club 21:1-112