

Heritage Rank Status Factors

Elcode NFSM000102
Gname MARTELLIA FRAGRANS
Gcomname

Number of Occurrences

A = 1 - 5

Comments Known from 6 collections, 4 sites in Oregon and California, and at least one in Idaho.

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

Comments

Range Extent

D = 1,000-5,000 km² (about 400-2,000 square miles)

Comments Known from California, Oregon and Idaho, but no Idaho data available.

Area of Occupancy

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

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

Comments

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

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 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

B = Few (1-3) 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 - N2N4. Until the Idaho information is available, its not possible to come up with a global rank other than the range rank. Nrank also would be a NU. If there are only one or two Idaho locations, the rank would be a G2.

Edition 11/17/2002 **Edauthor** Francisco J. Camacho

Grank G2G3 **Grank Date** 11/17/2002

Reasons

This is only known from 4+ sites. It is in Middle Elevation Pseudotsuga forests. Because It has only been found once in the area surrounding the Willamette Valley and this is the best studied area for truffles, this species must be rare in this area. It may be more prolific in the area it occurs farther to the South. I am not clear how many times it has been collected in Idaho, or if the report is valid.

BCD Sources

New Sources

Smith, A.H. 1963. New astrogastraceous fungi from the Pacific Northwest. Mycologia 55:421-441.