

Heritage Rank Status Factors

Elcode NFSM000009
Gname ARCANGELIELLA CRASSA

Gcomname

Number of Occurrences

B = 6 - 20

Comments Known from at least 10 collections.

Number of Occurrences with Good Viability

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

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

Comments Several of the good collections are from Fresno Co. California, a place where I have also collected this fungus several times.

Population Size

A = 1-50 individuals

B = 50-250 individuals

Comments

Range Extent

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

Comments Collected in the Sierra's from Fresno Co. to the Southern Cascades and over in the Siskiyou Mountains of California.

Area of Occupancy

B = 0.4-4 km² (about 100-1,000 acres)

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

Comments I believe that this species is under-collected based on my own experience collecting this fungus in the Sierra's.

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

Comments

Intrinsic Vulnerability

U = Unknown

Comments

Environmental Specificity

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

Comments

Other Considerations

National Rank - N2N4

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

Reasons

Endemic to California. Collected in the Sierra's from Fresno County to the Southern Cascades and over in the Siskiyou Mountains of California. Although this species is locally abundant in Fresno County, California. I do not know it's status throughout the rest of it's range. However the rest of its range has not been well sampled and this species is likely more abundant that we currently know.

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