

Heritage Rank Status Factors

Elcode NFSM000181
Gname SPARASSIS CRISPA
Gcomname Cauliflower Mushroom, Curly Sparassis

Number of Occurrences

E = >300

Comments Estimated number of occurrences worldwide is greater than 300. The ISMS database contains 69 records. The ISMS map shows 11 sites in Washington, 38 in Oregon and 10 in California. Other areas where this species has been documented include Arizona, Massachusetts, New Hampshire, Pennsylvania and Virginia, USA; British Columbia, Canada; Japan; and The Netherlands, Belgium, Germany and Sweden.

Number of Occurrences with Good Viability

D = Some (13-40) occurrences with good viability

Comments Estimated 40 occurrences worldwide with good viability.

Population Size

F = 10,000-100,000 individuals

Comments Estimated 10,000-100,000 individuals worldwide.

Range Extent

H = > 2,500,000 km² (greater than 1,000,000 square miles)

Comments Estimated range greater than 1,000,000 square miles worldwide. Circumboreal, but with irregular distribution: northwest United States and British Columbia, northeast United States, northern Europe, Scandinavia, and Japan. Also found in Arizona.

Area of Occupancy

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

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

Comments Estimated area of occupancy is 25 acres worldwide.

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

E = Relatively Stable ($\pm 25\%$ change)

Comments Long-term trend is estimated to be relatively stable.

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

E = Stable. Population, range, area occupied, and/or number or condition of occurrences unchanged or remaining within $\pm 10\%$ fluctuation

Comments Short-term trend is estimated to be relatively stable.

Threats

G = Slightly threatened. Threats, while recognizable, are of low severity, or affecting only a small portion of the population, occurrences, or area. Ecological community occurrences may be altered in minor parts of range or degree of alteration falls within the natural variation of the type.

Scope Low **Severity** Low **Immediacy** Low

Comments Slightly threatened with low severity threat. Logging, road and trail construction, or other activities that destroy the conifers on which this species depends may threaten this species. Over-collecting of this edible and apparently tasty species may also threaten its survival.

Number of Appropriately Protected and Managed Occurrences

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

Comments Estimated number of protected occurrences is 10. The ISMS database lists 4 Washington sites and 2 California sites as being protected. The University of Michigan Fungal Bioinformatics Project database lists 5 sites in Washington as being protected. It is uncertain whether these protected sites in Washington are identical. 2 sites in British Columbia are protected. It is unknown to what degree sites are protected in other states and countries.

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 Moderately vulnerable. Fruiting bodies are robust and have relatively small spores.

Environmental Specificity

C = Moderate. Generalist or community with some key requirements scarce.

Comments Environmental specificity moderate. The major key requirement appears to be a presence of conifers, though the type of conifer on which this species depends varies, depending on location.

Other Considerations

Nrank - N4

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Grank G4 **Grank Date** 11/27/2002

Reasons

Circumboreal, but with irregular distribution: northwest United States and British Columbia, northeast United States, northern Europe, Scandinavia, and Japan. Also found in Arizona. Estimated number of occurrences worldwide is greater than 300. Estimated 40 occurrences worldwide with good viability. Estimated 10,000-100,000 individuals worldwide. Estimated range greater than 1,000,000 square miles worldwide. Estimated area of occupancy is 25 acres worldwide. Long-term and short-term trends relatively stable. Slightly threatened with low severity threat. Estimated number of protected occurrences is 10. Moderately vulnerable. Environmental specificity moderate. There appears to be a lack of documented collections of this species, despite its widespread distribution and showiness, and several references note that this species is not especially common in the area indicated. However, photographs and descriptions in foraging manuals appear to be

common, indicating that, on a worldwide level, this is a rather widespread and not uncommon species.

BCD Sources

New Sources

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