

## Heritage Rank Status Factors

**Elcode** NFSM000101  
**Gname** MARASMIUS APPLANATIPES

**Gcomname**

### Number of Occurrences

A = 1 - 5

**Comments** Estimated occurrences is 2. The ISMS database contains 2 records. The ISMS map shows 2 sites in northern California. The Handbook to Strategy 1 Fungal Species in the Northwest Forest Plan also notes 2 sites in northern California. It is assumed that the sites listed in the ISMS database/map and in the Handbook are the same.

### Number of Occurrences with Good Viability

U = Unknown what number of occurrences with good viability

**Comments** Unknown

### Population Size

U = Unknown

**Comments** It is unknown how many individual organisms are located at each site. Lack of cited occurrences suggests a lack of collection and study of this species.

### Range Extent

A = <100 km<sup>2</sup> (less than about 40 square miles)

**Comments** Estimated range is about 30-40 square miles. Endemic to California.

### Area of Occupancy

U = Unknown

LU = Unknown

**Comments** It is unknown how many individual organisms are located at each site of occurrence and there is no estimation as to how large each organism is and how many fruiting bodies it has.

### 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** Unknown

### 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 Unknown

## Threats

A = Substantial, imminent threat. Threat is moderate to severe and imminent for most (> 60%) of the population, occurrences, or area. Ecological community occurrences are directly impacted over a widespread area, either causing irreversible damage or requiring long term recovery

Scope High Severity Moderate Immediacy Moderate

Comments Moderate to severe, imminent threat. Widespread logging, road and trail construction, or other activities that destroy the Pinaceae litter on which this species grows may threaten the species.

## Number of Appropriately Protected and Managed Occurrences

A = None. No occurrences appropriately protected and managed

Comments No occurrences are protected. One occurrence is located within the Northwest Forest Plan Matrix lands and one is located on a California Late Successional Reserve.

## 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.

## Environmental Specificity

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

Comments Occurs on Pinaceae litter in forests above 2,000 meters elevation.

## Other Considerations

Nrank - N1N3. Very few collections of this species have been documented. In addition to the collections noted in the Population and EOs section, four collections from 2 separate populations, also in northern California, were made in 1985. The areas have since been heavily logged and no additional collections have been made from these locales.

**Edition** 11/26/2002 **Edauthor** Hawes, Susan M.

**Grank** G1G3 **Grank Date** 11/26/2002

## Reasons

Endemic to California. Estimated occurrences is 2. Estimated range is about 30-40 square miles. Long-term and short-term trends are unknown. Threat is moderate to severe and imminent. No occurrences are protected. Moderately vulnerable. Narrow environmental specificity. Because of the lack of collections and information about this species and the fairly widespread potential habitat for this species, the guide for ranking poorly known species was used to assign the Grank.

## BCD Sources

## New Sources

Castellano, Michael A., J. E. Smith, T. O'Dell, E. Cazares & S. Nugent. 1999. Handbook to Strategy 1 Fungal Species in the Northwest Forest Plan. Gen. Tech. Rep. PNW-GTR-476. Portland, Oregon: United States Department of Agriculture, Forest Service, Pacific Northwest Research Station. 195 p.

USDA Forest Service, USDI Bureau of Land Management, USDI Fish and Wildlife Service. 2002. Interagency Species Management System [ISMS] database. Portland, Oregon.

Snowarski, Marek.