

## Heritage Rank Status Factors

**Elcode** NFSM000073  
**Gname** GASTROSUILLUS AMARANTHII  
**Gcomname**

### Number of Occurrences

A = 1 - 5

**Comments** Only known from one site. Endemic to California.

### Number of Occurrences with Good Viability

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

**Comments** This fungus has been looked for and not found. The type site has apparently been disturbed.

### Population Size

Z = Zero, no individuals known extant

**Comments**

### Range Extent

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

**Comments** Only known from one site. Endemic to California.

### Area of Occupancy

Z = Zero (no occurrences believed extant)

LZ = Zero (no occurrences believed extant)

**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

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 High

Immediacy High

**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

A = None. No occurrences appropriately protected and managed

**Comments**

## Intrinsic Vulnerability

U = Unknown

**Comments** Vulnerability for this species unknown. But sister species (which maybe same species) appears to be moderately vulnerable.

## Environmental Specificity

A = Very Narrow. Specialist or community with key requirements scarce.

**Comments** Only Known from one site.

## Other Considerations

NRANK - N1N2. The current name for this genus is *Suillus*. This is part of a complex of closely related species that needs to be better examined to verify if it is a valid species.

**Edition** 11/12/2002

**Edauthor** Francisco J. Camacho

**Grank** GHQ

**Grank Date** 11/12/2002

## Reasons

This species is only known from one site. The site has reportedly been disturbed and the species has not been relocated. There are several other collections of this genus (or more appropriately this group of species) and this is the only one with its particular characters. This appears to be a rare species.

## BCD Sources

## New Sources

Theirs, H.D. 1989. *Gastroboletus* revisited. *Memoirs of the New York Botanical Garden*. 49:355-359.