

# California Status Factors

**Elcode** NFSM000069  
**Gname** GASTROBOLETUS RUBER  
**Gcomname**

## Number of Occurrences

A = 1 - 5

Comments Known from 1 site.

## Number of Occurrences with Good Viability

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

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

Comments

## Population Size

Comments

## Range Extent

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

Comments Located on Mount Shasta.

## Area of Occupancy

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

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

A = None. No 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

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**Grank** S1S2 **Grank Date** 11/12/2002

## Reasons

Only known from one location in California. This is the edge of this species range and this population may have important genetic adaptations for the survival of this species as climates change. This species is often erumpent and easily seen in the low density underbrush forests that it occurs in. I suspect that it is truly rare in California.

## BCD Sources

## New Sources

Thiers, H.D., J.M. Trappe. 1969. Studies in the genus *Gastroboletus*. *Brittonia* 21:249-251