

## Heritage Rank Status Factors

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

**Gcomname**

### Number of Occurrences

B = 6 - 20

**Comments** Known from 16 sites.

### Number of Occurrences with Good Viability

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

**Comments**

### Population Size

A = 1-50 individuals

B = 50-250 individuals

**Comments**

### Range Extent

E = 5,000-20,000 km<sup>2</sup> (about 2,000-8,000 square miles)

F = 20,000-200,000 km<sup>2</sup> (about 8,000-80,000 square miles)

**Comments** Endemic to the Pacific Northwest.

### Area of Occupancy

A = <0.4 km<sup>2</sup> (less than about 100 acres)

B = 0.4-4 km<sup>2</sup> (about 100-1,000 acres)

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

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

**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

D = Many (13-40) 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

National Rank - N3

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**Grank** G3 **Grank Date** 11/12/2002

### Reasons

Endemic to the Pacific Northwest. This species is often erumpent and easily seen in the low density underbrush forests that it occurs in. There have been several recent new locations in Washington, an area not as well examined for sequestrate species of fungi. I believe there will be many more.

### BCD Sources

### New Sources

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