

Conservation Status Assessment

Scientific Name: *Gastroboletus ruber*

Classification: Fungus

Assessment area: California

Heritage Rank: **S2**

Rank Date: 3/9/2017

Rank Reasons: Five known occurrences from California, three in protected areas.

Range Extent: D = 1,000-5,000 sq km (~400-2,000 sq mi)

Comments: Range of around 1,300 sq. km. Found in Siskiyou, Shasta and Sierra counties.

Population Size: Not assessed

Comments: None

Number of Occurrences: A = 1 - 5

Comments: 5 occurrences known from California.

Area of Occupancy: C = 3-5 4-km² grid cells

Comments: 5 occupied grid cells.

Good Viability: B = Very few (1-3) occurrences with excellent or good viability or ecological integrity

Comments: 3 occurrences in protected areas. Found in Lassen Volcanic National Park, and Mount Shasta Wilderness.

Environmental Sensitivity: Not Evaluated

Comments: None

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: CD = Medium - Low

Comments:

Around half of the occurrences are in protected areas, 3 of 5. Additionally, in 2002 assessment Camacho said: "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. 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."

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: S2

Rank Author: Caitlin Lawrence

Rank Reviewer: Scot Loring

References:

No additional references listed.

Definitions and Resources:

Rank Prefixes

- G Global rank, applied to taxon's full geographic range
- S State rank, applied to taxon's range within the designated state

Rank Values

- 1 Critically imperiled
- 2 Imperiled
- 3 Vulnerable
- 4 Apparently secure, uncommon but not rare
- 5 Secure, common, abundant, and widespread

Suggested citation:

Oregon Biodiversity Information Center. 2017. Fungi Conservation Status Assessments. Institute for Natural Resources, Portland State University and Oregon State University. Portland, Oregon and Corvallis, Oregon.

More assessments available at <http://inr.oregonstate.edu/orbic/rare-species/ranking-documentation>

Element rank calculator resources at <http://www.natureserve.org/conservation-tools/conservation-rank-calculator>

Oregon Biodiversity Information Center, Institute for Natural Resources

Oregon State University and Portland State University

Mail Stop: INR, P.O. Box 751

Portland, OR 97207-0751

(503)-725-9950

<http://inr.oregonstate.edu/orbic>

<http://inr.oregonstate.edu/>