

## Conservation Status Assessment

**Scientific Name:** *Lactarius crassus*

**Classification:** Fungus

**Assessment area:** Global

**Heritage Rank:** **G3**

**Rank Date:** 3/9/2017

Assigned Rank Reasons: Only about 24 collections, but believed to be under-collected.

**Range Extent:** F = 20,000-200,000 sq km (~8,000-80,000 sq mi)

Comments: Known from Oregon and California. About 136,000 sq. km range.

**Population Size:** Not assessed

Comments: None

**Number of Occurrences:** C = 21 - 80

Comments: Very low end of this, around 22. However, Camacho 2002 says "I believe that this is under collected based on my own experience collecting this fungus in the Sierras. Although this is locally abundant in Fresno County California, I do not know its status throughout the rest of its range. However the rest of the range has not been well sampled and this species is likely more abundant that we currently know." A few more collections since 2002.

**Area of Occupancy:** D = 6-25 4-km<sup>2</sup> grid cells

Comments: Some clustered occurrences counted as one occurrence but covering multiple grid cells. High end of this, around 24.

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

Comments: One occurrence in Crater Lake National Park. At least one other may be in a late successional reserve.

**Environmental Sensitivity:** Not Evaluated

Comments: None

**Short Term Trends:** Not Evaluated

Comments: None

**Long Term Trends:** Not Evaluated

Comments: None

**Threat Impact:** C = Medium

**Comments:**

About 90% of occurrences or more unprotected. If unprotected sites are logged on a 40 year rotation, 20-25% would be affected in 10 years, and up to 90% in 100 years. From Camacho 2002: 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.

**Intrinsic Vulnerability:** Not Evaluated

Comments: None

**Calculated Rank:** G3

**Rank Author:** Caitlin Lawrence

**Rank Reviewer:** Matt Trappe

**References:**

Pierotti. 2015. Nomenclatural novelities. Index Fungorum 254:1-1.

**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>

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