

Conservation Status Assessment

Scientific Name: *Tuber asa*

Classification: Fungus

Assessment area: California

Heritage Rank: **S1**

Rank Date: 12/12/2018

Rank Reasons: Due to confirmation of the existence of this 1998 collection, in 2018 update, S1? Changed to S1.

Range Extent: A = <100 sq km (< ~40 sq mi)

Comments: There may be a single record from California. In the 2002 ranking, N. Weber mentions a site in the Shasta-Trinity National Forest that is recorded in the Agency database, but it is not mentioned in Castellano, et al. (1999). The 2016 download of the agency databases do not contain a record of *T. asa* from California. 2018 update does show this occurrence, collection from 1998.

Population Size: Not assessed

Comments: None

Number of Occurrences: A = 1 - 5

Comments: There may be a single occurrence in California. 2018 update does show this occurrence, collection from 1998.

Area of Occupancy: A = 1 4-km² grid cell

Comments: This species may occupy a single grid square in California. 2018 update does show this occurrence, collection from 1998.

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

Comments: The one occurrence appears to be in Trinity Alps Wilderness.

Environmental Sensitivity: B = Narrow. Specialist or community with key requirements common

Comments: A hypogeous, mycorrhizal, truffle species.

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: U = Unknown

Comments:

Tuber are highly sought after edible species (Truffles). Harvesting based on the best management practices is expected to have minimal negative effect on the long term survival of the organism. However some harvesters use a raking method that is thought to damage the mycelium and could threaten the survival of this species. The site could be threatened by improper harvesting methods. The site could be threatened by timber harvest as well.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: S1

Rank Author: Caitlin Lawrence

Rank Reviewer: Caitlin Lawrence

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>

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