

## Conservation Status Assessment

**Scientific Name:** *Hygrophorus caeruleus*

**Classification:** Fungus

**Assessment area:** Global

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

**Rank Date:** 11/28/2016

Rank Reasons: Regional species with dozens of known sites, but only few are protected and others may be impacted by logging.

**Range Extent:** G = 200,000-2,500,000 sq km (~80,000-1,000,000 sq mi)

Comments: The global range is about 387,000 sq. km and includes The Cascades range from Washington to California, Mostly on the east slope. There is one site in the East Siskiyou of Oregon, a few sites in the Sierra Nevada south to Yosemite, and two sites in west central Idaho.

**Population Size:** Not assessed

Comments: None

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

Comments: There are 43 known occurrences across the global range

**Area of Occupancy:** E = 26-125 4-km<sup>2</sup> grid cells

Comments: This species occupies about 74 grid squares across its global range.

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

Comments: There are 2 sites that lie within National parks or wilderness areas and a third site that is partially within a wilderness area.

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

Comments: Mycorrhizal in high elevation coniferous forests

**Short Term Trends:** Not Evaluated

Comments: None

**Long Term Trends:** Not Evaluated

Comments: None

**Threat Impact:** C = Medium

Comments:

There are only about 3 of 43 sites in permanently protected areas. If the other sites are logged on a 40 year rotation about 25% of sites would be impacted over 10 years and around 90% would be impacted over 100 years.

**Intrinsic Vulnerability:** Not Evaluated

Comments: None

**Calculated Rank:** G3

**Rank Author:** Michael Russell

**Rank Reviewer:** Michael Russell

**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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