

Conservation Status Assessment

Scientific Name: *Chroogomphus loculatus*

Classification: Fungus

Assessment area: Global

Heritage Rank: **G2Q**

Rank Date: 8/8/2017

Rank Reasons: Less than 10 known occurrences, only in one state. Species was assessed with the known data but Norvell 2002 states: "Believed to be undergoing taxonomic evaluation: may represent only an environmental variation of the common *Chroogomphus tomentosus*. Molecular confirmation needed."

Rank Adjustment Notes: Trappe et al. (2009) include as independent, but this is molecularly unsupported. ITS sequence analyses by Miller & Aime (2001), Miller (2004), and Razaq & al. (2016) all show 'loculatus' as synonymous with *Chroogomphus tomentosus* at the species level. Despite Orson Miller's feeling, CHLO2 still listed as such in IndexFungorum, MycoBank (accessed March 6 2017). (Trappe, James M.; Molina, Randy; Luoma, Daniel L.; Cázares, Efrén; Pilz, David; Smith, Jane E.; Castellano, Michael A.; Miller, Steven L.; Trappe, Matthew J. 2009. Diversity, ecology, and conservation of truffle fungi in forests of the Pacific Northwest. Gen. Tech. Rep. PNW-GTR-772. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 194 p. ; Miller, O.K.; Aime, M.C. 2001. Systematics, ecology and world distribution in the genus *Chroogomphus* (Gomphidiaceae), pp.314–333. In: J.K. Misra and B.W. Horn (eds.), *Trichomycetes and other fungal groups*. Enfield New Hampshire: Science Publishers, Inc. ; Miller, O.K. 2004 ("2003"). *The Gomphidiaceae revisited: a worldwide perspective*. *Mycologia* 95:176-183. ; Razaq, Abdul; Ilyas, Sobia; Khalid, Abdul Nasir. 2016. Molecular identification of Chinese *Chroogomphus roseolus* from Pakistani forests, a mycorrhizal fungus, using ITS-RDNA marker. 2016. *Pakistani Journal of Agricultural Science* 53: 393–398.)

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

Comments: Approximately 1,800 sq. km. Found only in Willamette National Forest.

Population Size: Not assessed

Comments: None

Number of Occurrences: B = 6 - 20

Comments: Around 7 occurrences

Area of Occupancy: D = 6-25 4-km² grid cells

Comments: Around 15, a few of the occurrences had multiple collections. Taxonomic questions. Norvell 2002: "Believed to be undergoing taxonomic evaluation: may represent only an environmental variation of the common *Chroogomphus tomentosus*. Molecular confirmation needed."

Good Viability: A = No occurrences with excellent or good (A or B) viability or ecological integrity

Comments: No occurrences in protected areas.

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:
Could be disturbed by logging.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: G2

Rank Author: Caitlin Lawrence; Lindsey Wise
Rank Reviewer: Lorelei Norvell; Lindsey Wise

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 <http://inr.oregonstate.edu/orbic>
(503)-725-9950 <http://inr.oregonstate.edu/>