

Conservation Status Assessment

Scientific Name: *Phaeocollybia piceae*

Classification: Fungus

Assessment area: Global

Heritage Rank: **G3**

Rank Date: 3/9/2017

Rank Reasons: RPB2 & ITS sequence analyses of 25 PHPI collections support a cohesive species concept with no ambiguities. 176 collections were identified from 51 known sites in British Columbia (2, but incredibly abundant there in 1992), California (4), Oregon (41) & WA (4) from 1937–2013. See Norvell & Exeter (2008:137–142) for full treatment and references and Norvell & al. (2010) for molecular data. The 2007 assigned global ranking seems appropriate. Multigene sequence analyses by Matheny & al. (2006) support *Phaeocollybia* in the Hymenogastraceae (not Cortinariaceae). ((Matheny PG, Curtis JM, Hofstetter V, Aime MC, Moncalvo JM, Ge ZW, Yang ZL, Slot JC, Ammirati JF, Baroni TJ, Bougher NL, Hughes KW, Lodge DJ, Kerrigan RW, Seidl MT, Aanen DK, DeNitis M, Daniel GM, Desjardin DE, Kropp BR, Norvell LL, Parker A, Vellinga EC, Vilgalys R, Hibbett DS. 2006. Major clades of Agaricales: a multilocus phylogenetic overview. *Mycologia* 98: 982-995. ; Norvell, Lorelei L.; Exeter, Ronald L.; Gordon, Matthew; Redhead. 2010. Species concepts in a molecular age: the *Phaeocollybia waltz*. Abstract in IMC9: The biology of fungi; Oxford abstract on disc given to 1750 IMC9 delegates. [poster available online via Lorelei Norvell—Research Gate] ; Norvell, Lorelei L.; Exeter, Ronald L. 2009 (“2008”). *Phaeocollybia* of Pacific Northwest North America. USDI-BLM/OR/WA/GI-08/100-1792, Salem, Oregon 228 p. *Phaeocollybia* [available online via Lorelei Norvell—Research Gate])

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

Comments: The range is 113,214 sq. km. It includes sites near the west coast of Vancouver Island, British Columbia, on the west side of the Olympic Peninsula, on the west slope of the Oregon Cascades along with Oregon's Coast and Siskiyou Mountains, and in California it is near the coast in Humboldt and Mendocino Counties.

Population Size: Not assessed

Comments: None

Number of Occurrences: C = 21 - 80

Comments: There are 72 known occurrences of this species.

Area of Occupancy: E = 26-125 4-km² grid cells

Comments: This species occupies about 92 grid squares across its range

Good Viability: C = Few (4-12) occurrences with excellent or good viability or ecological integrity

Comments: About 10 sites are in State, National, or Provincial Parks.

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

Comments: A mycorrhizal species of *Picea sitchensis* or *Tsuga heterophylla* forests.

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: C = Medium

Comments:

Approximately 85% of the sites are not in permanently protected areas. If those sites are logged on a 40 year rotation, about 20% of sites would be impacted over 10 years and around 85% would be impacted over 100 years.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: G3

Rank Author: Michael Russell

Rank Reviewer: Lorelei Norvell

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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