

Conservation Status Assessment

Scientific Name: *Phaeocollybia dissiliens*

Classification: Fungus

Assessment area: Global

Heritage Rank: **G2**

Rank Date: 3/9/2017

Rank Reasons: A narrowly endemic species with most known sites in a handful areas targeted for timber harvest around the state of Oregon. RPB2 & ITS sequence analyses of 16 PHDI collections support a cohesive species concept. At least 76 collections have been identified from about 23 sites in California (1) & Oregon (21) . See Norvell & Exeter (2008), pp 51–56 for full treatment and references and Norvell & al. (2010) for molecular data. 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 25,339 sq. km. It includes sites On the Oregon, Coast, the coast range and the west Cascades foothills north of Eugene.

Population Size: Not assessed

Comments: None

Number of Occurrences: C = 21 - 80

Comments: There are 43 occurrences documented with precise gaps data in agency databases or the Mycoportal herbarium database. There are herbarium collections with less precise location information that represent about 10 additional occurrences. Together there are about 53 known occurrences.

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

Comments: This species occupies about 60 grid squares.

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

Comments: Two occurrences are located in Oregon State Parks.

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

Comments: A mycorrhizal species of low elevation conifer forest in Western Oregon. Reported to occur in flood plains or wet areas (Norvell. 1998a. The biology and taxonomy of Pacific Northwest species of Phaeocollybia Heim. 391 pp.)

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: B = High

Comments:
About 70% of sites are not in permanently protected areas. If those sites are logged on a 40 year rotation around 10% would be impacted over 10 years and around 97% would be impacted over 100 years. Many of the sites were located in pre timber harvest surveys so it could be that the sites are in stands likely to be harvested sooner rather than later and only take an increase of a few sites logged in a 10 year period to increase the risk to high.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: G2

Rank Author: Michael Russell

Rank Reviewer: Lorelei Norvell

References:

Norvell, L.L. and R.L. Exeter. 2008. Phaeocollybia of Pacific Northwest North America. USDI BLM/OR/WA/GI-08/100-1792, Salem, Oregon 228 p.

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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