

Conservation Status Assessment

Scientific Name: *Phaeocollybia fallax*

Classification: Fungus

Assessment area: Global

Heritage Rank: **G4Q**

Rank Date: 3/9/2017

Assigned Rank Comments: None.

Rank Adjustment Notes: RPB2 & ITS sequence analyses of 36 PHFA collections reveal a complex containing possibly 2 or 3 yet to be named new species; additional sampling needed. At least 358 collections have been identified from about 90 sites in California (14), Oregon (>62), Washington (>8), BC (2), and Idaho (10) from 1935–2015. See Norvell & Exeter (2008), pp77–84 for full treatment and references and Norvell & al. (2010) for partial molecular data. No new data to contradict current global ranking. 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: G = 200,000-2,500,000 sq km (~80,000-1,000,000 sq mi)

Comments: The range is 426,855 sq. km. There are sites on Vancouver Island and near Vancouver British Columbia. In Washington, there are sites on the Olympic Peninsula and the west Cascades. In Oregon There are sites in the west Cascades, coast, and Siskiyou Mountains of Oregon. In California sites are west of the crest of the Coastal mountains in Del Norte, Humboldt, Trinity, Mendocino, Sonoma, and Marin Counties. There is also a pair of collections made in 1972 from Kootenai County Idaho.

Population Size: Not assessed

Comments: None

Number of Occurrences: D = 81 - 300

Comments: There are 109 known occurrences that with precise coordinates as their location. There are about 8 additional occurrences known from herbarium collections with less precise location information.

Area of Occupancy: F = 126-500 4-km² grid cells

Comments: This species occupies about 150 grid squares.

Good Viability: D = Some (13-40) occurrences with excellent or good viability or ecological integrity

Comments: There are about 26 occurrences in State, National, Or Provincial Parks or Wilderness areas.

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

Comments: A mycorrhizal species mostly found in late seral conifer forest.

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: C = Medium

Comments:

About 78% of known 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 about 78% would be impacted over 100 years.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: G4

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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