

## Conservation Status Assessment

**Scientific Name:** *Phaeocollybia pseudofestiva*

**Classification:** Fungus

**Assessment area:** Global

**Heritage Rank:** **G2G3Q**

**Rank Date:** 3/9/2017

Assigned Rank Comments: None.

Rank Adjustment Notes: RPB2 & ITS sequence analyses of 20 collections reveal a complex comprising 3 different taxa in need of additional sampling and morphological research and potentially separable based on population distributions. At least 69 collections were identified from >37 sites in British Columbia (2), California (>10) Oregon (>21) & WA (4) from 1935–2013. See Norvell & Exeter (2008: 149–154) for full treatment & references and Norvell & al. (2010) for partial molecular data. The 2017 assigned global ranking seems low, in that we have had real problems locating fruitbodies in Oregon. 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 187,952 sq. km. There are sites near the southwest coast of Vancouver Island, the west side of the Olympic Peninsula, Oregon's Coast West Cascades, and Siskiyou mountains, and on the west slope of the California coast ranges from Del Norte to Santa Cruz County.

**Population Size:** Not assessed

Comments: None

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

Comments: There are 62 known occurrences documented with precise location coordinates in agency and mycoportal.org databases. And 3 additional occurrences based on herbarium collections with less precise location information

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

Comments: This species occupies about 87 grid squares.

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

Comments: There are 13 occurrences within State, National, or Provincial Parks.

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

Comments: A mycorrhizal species generally found in late seral forest.

**Short Term Trends:** Not Evaluated

Comments: None

**Long Term Trends:** Not Evaluated

Comments: None

**Threat Impact:** C = Medium

Comments:

Approximately 84% of the sites are not in permanently protected areas. If those sites are logged on a 40 year rotation, around 21% of sites would be impacted over 10 years and around 84% 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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