

Conservation Status Assessment

Scientific Name: *Phaeocollybia attenuata*

Classification: Fungus

Assessment area: Global

Heritage Rank: **G3Q**

Rank Date: 3/9/2017

Assigned Rank Comments: None.

Rank Adjustment Notes: RPB2 & ITS sequence analyses of 45 'attenuata' collections indicate a cryptic species, as yet unsupported by morphological characters; final analysis ongoing, with the new species provisionally named. App. 885 collections have been identified from about 80 existing localities from northern California through British Columbia. Throughout the region, the species complex appears stable. See Norvell & Exeter (2008), pp 51–56 for full treatment and references. Multigene sequence analyses by Matheny & al. (2006) support *Phaeocollybia* in the Hymenogastraceae (not Cortinariaceae). (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] ; 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.)

Range Extent: GH = 200,000 to >2,500,000 sq km (~80,000 to >1,000,000 sq miles)

Comments: Most of the sites are West of the Cascades crest in British Columbia, Washington, and Oregon, and the west slope of the Siskiyou Mountains in Northern California. In the mycoportal.org database there are additional records in the Idaho Panhandle (one collection) Northern Utah (one collection) and near Popocatepl in central Mexico). The Pacific northwest sites have a range of 200,895 sq. km. If the other US sites are included the range is 824,960 sq. km. Adding the Mexico site would increase the range to more than 2.5 million sq. km.

Population Size: Not assessed

Comments: None

Number of Occurrences: DE = 81 to >300

Comments: There are about 301 known occurrences of this species.

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

Comments: There are about 299 grid squares occupied by this species across its range.

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

Comments: There are about 14 occurrences in National or State Parks.

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

Comments: A mycorrhizal species of late seral conifer forests.

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: B = High

Comments:

Around 97% of the sites are not in permanently protected areas. If those sites are logged on a 40 year rotation, around 25% of sites would be impacted over 40 years and around 97% of sites would be impacted over 100 years. The threat impact score of medium reflects the conservative estimate of only 25% of sites being impacted over 10 years. The vast majority of sites are in proposed timber sale units suggesting those stands are likely to be targeted sooner rather than later for timber harvest and it is likely that more than 30% of sites could be impacted over 10 years. That would result in a high threat impact and a G3 rank.

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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