

## Conservation Status Assessment

**Scientific Name:** *Phaeocollybia sipei*

**Classification:** Fungus

**Assessment area:** Global

**Heritage Rank:** **G3**

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

Rank Reasons: RPB2 & ITS sequence analyses of 24 representatives of this Oregon (with one outlier) endemic support a cohesive species concept with no ambiguities. Washington collection was considered a dubious range extension by L. Norvell during the 2002 ranking but was accepted in 2017 review. At least 269 collections were identified from >43 sites in Oregon (>42) & WA (1) from 1937–2014. See Norvell & Exeter (2008: 187–192) for full treatment & references and Norvell & al. (2010) for molecular data. The 2017 assigned global ranking seems appropriate given the large number of collections made in Oregon. The Washington outlier has been confirmed by sequence analyses. 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: All but three collections of this species are from the coast range and Cascade foothills of Oregon. One collection is from the Olympic Peninsula. There are also 2 records collected after 2002 from Humboldt Co., CA. Including all records makes the global range 63,723 sq. km. If the Washington collection is left out the range would be 45,205 sq. km. The Oregon records have a range of 30,592 sq. km.

**Population Size:** Not assessed

Comments: None

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

Comments: There are 73 occurrences in Oregon Washington and California.

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

Comments: This species occupies about 108 grid squares in Oregon. There are 2 more grid squares occupied in California and one more in Washington.

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

Comments: Two sites are in Oregon State parks. One site is in Redwood National Park, and a fourth site is the questionable record from Olympic National Park.

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

Comments: A mycorrhizal species of low elevation, moist coniferous forests.

**Short Term Trends:** Not Evaluated

Comments: None

**Long Term Trends:** Not Evaluated

Comments: None

**Threat Impact:** C = Medium

Comments:

Around 95% of sites are not in permanently protected areas. If those sites are logged on a 40 year rotation, around 24% of sites would be impacted over 10 years and around 95% 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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