

## Conservation Status Assessment

**Scientific Name:** *Phaeocollybia kauffmanii*

**Classification:** Fungus

**Assessment area:** Global

**Heritage Rank:** **G3G4**

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

Assigned Rank Comments: None.

Rank Adjustment Notes: RPB2 & ITS sequence analyses of 32 PHKA collections support a cohesive species concept. At least 266 collections have been identified from >74 sites in California (9), Oregon (>51) & WA (14) from 1935–2014; previous collections identified as *kauffmanii* have been placed in four new species. See Norvell & Exeter (2008: 91–98) for full treatment and references and Norvell & al. (2010) for molecular data. The assigned ranking may be somewhat low unless the reassignment to other genera have been accommodated. 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.)

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

Comments: This species is found along the west coast mountains from British Columbia to California. There are collections from Vermont and Tennessee as well as on Popocatepetl mountain in Mexico. In the 2002 ranking the Vermont specimen is described as immature and is left out of the range calculation. There is also a collection from central Idaho in the Upper Salmon River area, but the location is based on coordinates that are precise to a half of a degree. The collector has a collection with a number two lower from the Mount Hood area, and one higher from northern Idaho. It is most likely that that collection is also from the Mount Hood area, which would place it near several other collections. It could also be from the Idaho panhandle, as there is hemlock forest in that area and the 2002 ranking by L. Norvell mentions a more recent northern Idaho collection that is not listed in the Mycoportal.org database in 2016. Including only the sites west of the Cascade Crest (from BC to Santa Cruz County, CA), the range is 337,311 sq. km. Including all of the records would make the range greater than 2.5 million sq. km.

**Population Size:** Not assessed

Comments: None

**Number of Occurrences:** D = 81 - 300

Comments: There are around 160 known occurrences of this species.

**Area of Occupancy:** F = 126-500 4-km<sup>2</sup> grid cells

Comments: This species occupies around 260 grid squares across its range.

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

Comments: Around 20 sites are in State or National Parks, Wilderness areas, National Recreation Areas, Or National Scenic areas.

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

Comments: A mycorrhizal species of moist coniferous forests.

**Short Term Trends:** Not Evaluated

Comments: None

**Long Term Trends:** Not Evaluated

Comments: None

**Threat Impact:** C = Medium

Comments:

Around 88% of the sites are not in protected areas. If those sites are logged on a 40 year rotation, around 22% would be impacted over 10 years and around 88% would be impacted over 100 years. Around 10 sites may be threatened by residential development.

**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:**

<b>Rank Prefixes</b>	
G	Global rank, applied to taxon's full geographic range
S	State rank, applied to taxon's range within the designated state
<b>Rank Values</b>	
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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