

Conservation Status Assessment

Scientific Name: *Neolentinus kauffmanii*

Classification: Fungus

Assessment area: Global

Heritage Rank: **G4**

Rank Date: 3/9/2017

Rank Reasons: A good species still accepted within *Neolentinus* (Gloeophyllaceae). More commonly reported than *N. adhaerens*, and also not considered for listing on the European Red List (2014). Regarded as a potential source of medically beneficial compounds (Zmitrovich & Kovalenko 2016). No new data to contradict 2017 assigned Region 6 rank. (Zmitrovich, Ivan V.; Kovalenko, Alexander E. 2016. Lentinoid and polyporoid fungi, Two generic conglomerates containing important medicinal mushrooms in molecular perspective. International Journal of Medicinal Mushrooms 18(1): 23–38.)

Range Extent: H = >2,500,000 sq km (> 1,000,000 sq mi)

Comments: The range of this species includes the west slopes of the Coastal Mountains in Mendocino, Humboldt, and Del Norte counties, California, The Coast Range of Oregon (including a single collection with Eugene listed as the location), the Olympic and Cascade Mountains of Washington, western British Columbia with most sites on the islands or near the coast, but one collection from the Okanogan Highlands, and coastal Alaska as far north as Anchorage. There are also reports from Japan (Redhead. 1989. A biogeographical overview of the Canadian mushroom flora. Can. J. Bot. 67: 3003-3062.) The Mycoportal.org database also lists two sites in Louisiana and Alabama, but those sites seem to be based on collections from Tibet that were located using west longitude (LA and AL) instead of east longitude (Tibet). The Tibetan collections are mentioned in Redhead (1989) as questionable identifications that he hadn't examined. The California to Alaska collections have a range of nearly 1.3 million sq. km. Including the Japanese records makes the range well above 2.5 million sq. km.

Population Size: Not assessed

Comments: None

Number of Occurrences: D = 81 - 300

Comments: There are about 90 occurrences in North America, it is unknown how many occurrences are in Asia.

Area of Occupancy: E = 26-125 4-km² grid cells

Comments: This species occupies about 100 grid squares in North America. It is unknown how many grid squares are occupied by Asian populations.

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

Comments: There are about 27 occurrences in State, National, and Provincial parks or wilderness areas.

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

Comments: This species is a saprotrophic (or possibly slow growing parasite) of living and dead spruce trees.

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: C = Medium

Comments:

Approximately 67% of the sites are not in permanently protected areas. If those sites are logged on a 40 year rotation, around 16% of the sites would be impacted over 10 years and around 67% of sites 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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