

Conservation Status Assessment

Scientific Name: *Rhizopogon abietis*

Classification: Fungus

Assessment area: Global

Heritage Rank: **G3**

Rank Date: 4/22/2017

Assigned Rank Comments: None.

Rank Adjustment Notes: This is a subterranean fungi that seems to grow in areas where few people look for truffle-like fungi so it is likely found in more sites than the few collections would suggest.

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

Comments: The range of this species is over 6 million sq. km. There are collections from New York, Tennessee, Nuevo Leon, Mexico, New Mexico, Wyoming, Central Idaho, The cascades and Blue Mountains of Oregon, and the Siskiyou of California.

Population Size: Not assessed

Comments: None

Number of Occurrences: C = 21 - 80

Comments: There are 22 known occurrences of this species across its range.

Area of Occupancy: D = 6-25 4-km² grid cells

Comments: This species occupies 22 grid squares across its range.

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

Comments: 3 occurrences are in wilderness areas, one is in Crater Lake National Park.

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

Comments: A hypogeous mycorrhizal species.

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: C = Medium

Comments:

Approximately 86% of 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 86% would be impacted over 100 years.

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: G3

Rank Author: Michael Russell

Rank Reviewer: Ron Hamill

References:

Camacho, Francisco. 2002. Heritage rank status factors. Assessment for Survey and Manage Project, on-line: http://orbic.pdx.edu/documents/survey/rhizopogon_abietis_or.pdf.

Castellano, M.A., E. Cazares, B. Fondrick and T. Dreisbach. 2003. Handbook to additional fungal species of Special Concern in the Northwest Forest Plan. USDA Forest Service, General Technical Report PNW-GTR-572.

Smith, A.H. and S.M. Zeller. 1966. Memoirs of the New York Botanical Garden: 14(2): 1-178.

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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