Conservation Status Assessment

Scientific Name: ***Polyozellus multiplex***
Classification: Fungus
Assessment area: Global

Heritage Rank: **G4**
Rank Date: 3/9/2017

Rank Reasons: Several recent publications (check Google scholar) note the bioactive efficacy of this species in various medicinal treatments. Given the elusive nature of this sought-after mushroom, the G ranking seems slightly low, although the species is very definitely widely distributed.

Range Extent:

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

Comments: The global range is over 2.5 million sq. km. There are sites in the west coast states and province from Alaska and British Columbia to the San Francisco Bay area in California. There are sites in the Rocky Mountains of Idaho, Utah, Colorado, New Mexico, and Arizona. In Eastern North America there are records from Quebec, Newfoundland, Nova Scotia, Maine, New Hampshire, and North Carolina. There a herbarium collection from Yunnan China, and in the 2002 ranking L. Norvell states the fungus is known from Japan.

Population Size:

Not assessed

Comments: None

Number of Occurrences:

D = 81 - 300

Comments: There are about 164 known sites of this species. There are 116 sites documented with precise coordinate locations in herbarium or agency databases and about another 48 documented by herbarium collections with less precise location information

Area of Occupancy:

F = 126-500 4-km2 grid cells

Comments: Known sites of this species occupy at least 196 grid squares across its range.

Good Viability:

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

Comments: 18 occurrences are in National or Provincial parks or Wilderness Areas.

Environmental Sensitivity:

B = Narrow. Specialist or community with key requirements common

Comments: A mycorrhizal species often seen with Large Abies trees in late seral forest.

Short Term Trends:

Not Evaluated

Comments: None

Long Term Trends:

Not Evaluated

Comments: None

Threat Impact: C = Medium

Comments:
Approximately 10% of the sites are in protected areas. If the other sites are logged on a 40 year rotation, around 22% of sites would be impacted over 10 years and around 90% would be impacted over 100 years. This species is an edible fungi that is sought by mushroom hunters. The Chinese collection was collected from a market. However, it is generally assumed that harvest practices typically used for aboveground mushrooms pose little threat to the long term survival of the below ground mycelium. Two sites are in the San Francisco Bay area, and numerous sites in the east may be on private land that could 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:

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

Oregon Biodiversity Information Center, Institute for Natural Resources
Oregon State University and Portland State University
Mail Stop: INR, P.O. Box 751
Portland, OR 97207-0751 http://inr.oregonstate.edu/orbic
(503)-725-9950 http://inr.oregonstate.edu/