Conservation Status Assessment

Scientific Name: ***Bondarzewia mesenterica***
Classification: Fungus
Assessment area: Global

Heritage Rank: **G4Q**
Rank Date: 3/9/2017

Rank Reasons: Good number of occurrences, and wide range. About 13 or so occurrences in protected areas. Taxonomy in flux: may represent unnamed endemic species; no one certain which species occurs east or west. As BOME candidate for listing on 2014 European red-list where cited as threatened, vulnerable, or (critically) endangered in Austria, Germany, and Poland; listed as somewhat threatened in France (Larent-Dargent 2009). Reported from BC (Ceska 2012). Used in Chinese medicine as a detoxicant (as B. Montana; Dai & al. 2009) (Laurent-Dargent, Jonathan. 2009. La Liste Rouge des Champignons (macromycètes) rares ou menacés de Lorraine. Thesis for Docteur de Pharmacie: Universite Henry Poincare - Nancy I. 120 pp. ; Ceska, Oldriska. 2012 (March). A survey of macrofungi on Observatory Hill: Spring 2011 and Winter 2011/2012 (records from Vancouver Island, BC, site are cumulative). By the author. ; Dai, Yu-Cheng; Yang, Zhu-Liang; Cui, Bao-Kai; Yu, Chang-Jun; Zhou, Li-Wei. 2009. Species diversity and utilization of medicinal mushrooms and fungi in China (review). International Journal of Medicinal Mushrooms 11(3): 287–302.)

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

Comments: Most occurrences along the west coast of North America. Alaska, British Columbia, Oregon, California, Idaho. Also found in Ohio, Iowa, Pennsylvania and Colorado. Found in France, Poland, Russia, Austria, Czech Republic, Switzerland, Japan, India,

Population Size:
Not assessed

Comments: None

Number of Occurrences:
D = 81 - 300

Comments: Around 170 or so occurrences.

Area of Occupancy:
F = 126-500 4-km2 grid cells

Comments: Some of the occurrences covering more than one grid cell.

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

Comments: Low end of this range, but at least 13-15 lie in protected areas. A few in Olympic National Park, Moran State Park, Alpine Lakes Wilderness, A few in Mount Rainier National Park, Goat Rocks Wilderness, Trinity Alps Wilderness, Redwood National and State Parks, Yosemite National Park, Glacier Bay National Park and Preserve.

Environmental Sensitivity:
Not Evaluated

Comments: None

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: C = Medium

Comments:
About 17 of 170 occurrences are located in protected areas. If the unprotected areas are logged on a 40 year rotation, about 23% of sites would be affected in 10 years and 90% in 100 years. Norvell in 2002 says "The primary threat to the species is the elimination of late-successional and old-growth forest habitats, through fire, pollution, development, mining, or logging activities. Alteration of forest management for shorter rotations and the accompanying decline of late-succession or old-growth habitats are seen as a long term threat."

Intrinsic Vulnerability: Not Evaluated

Comments: None

Calculated Rank: G4

Rank Author: Caitlin Lawrence
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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