Conservation Status Assessment

Scientific Name: Russula idahoensis
Classification: Fungus
Assessment area: Global

Heritage Rank: G2
Rank Date: 11/30/2016

Rank Reasons: Synonyms include Martellia idahoensis; Cystangium idahoensis.

Range Extent: E = 5,000-20,000 sq km (~2,000-8,000 sq mi)

Comments: The global range is 8,650 sq. km. It includes 4 sites in Valley County Idaho and one or two sites in the McKenzie drainage in the Oregon Cascades.

Population Size: Not assessed

Comments: None

Number of Occurrences: B = 6 - 20

Comments: There are 5 or 6 occurrences of this species. The two records from Oregon are likely to be two separate Occurrences, but the location information is not precise to know for certain.

Area of Occupancy: CD = 3-25 4-km2 grid cells

Comments: The species occupies 5 or 6 grid squares. There are 4 grid squares occupied in Idaho. There are apparently two observations of the species in western Oregon. One is a herbarium specimen that has the Olallie Trail on the East Fork McKenzie River. The other is mapped about 4 km north of the Ollalie trail. There is not enough information to determine if they occupy 2 or 1 grid square, so the species may occupy 6 grid squares.

Good Viability: B = Very few (1-3) occurrences with excellent or good viability or ecological integrity

Comments: The Herbarium collection from Oregon seems to be in the Three Sisters Wilderness Area

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

Comments: A mycorrhizal species from high elevation Abies spp. Forest.

Short Term Trends: Not Evaluated

Comments: None

Long Term Trends: Not Evaluated

Comments: None

Threat Impact: C = Medium
Comments:  
Only one of the 6 occurrences are in Wilderness areas. If those 6 are logged on a 40 year rotation around 21% of the sites would be impacted over 10 years and 84% would be impacted over 100 years.

Intrinsic Vulnerability:  
Not Evaluated

Comments:  None

Calculated Rank:  G2

Rank Author:  Michael Russell
Rank Reviewer:  Michael Russell

References:
Elliott, TF; Trappe, JM. 2018. A worldwide nomenclature revision of sequestrate Russula species. Fungal Systematics and Evolution. 1:229-242

Definitions and Resources:

<table>
<thead>
<tr>
<th>Rank Prefixes</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>G</td>
<td>Global rank, applied to taxon's full geographic range</td>
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<tr>
<td>S</td>
<td>State rank, applied to taxon's range within the designated state</td>
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<table>
<thead>
<tr>
<th>Rank Values</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>Critically imperiled</td>
</tr>
<tr>
<td>2</td>
<td>Imperiled</td>
</tr>
<tr>
<td>3</td>
<td>Vulnerable</td>
</tr>
<tr>
<td>4</td>
<td>Apparently secure, uncommon but not rare</td>
</tr>
<tr>
<td>5</td>
<td>Secure, common, abundant, and widespread</td>
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Suggested citation:

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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