

## Conservation Status Assessment

**Scientific Name:** *Guepinia helvelloides*

**Classification:** Fungus

**Assessment area:** Oregon

**Heritage Rank:** **S3S4**

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

Assigned Rank Comments: None.

Rank Adjustment Notes: With the same range and threat impact score, to increase the rank to S4 there would need to be 9 more sites in permanently protected areas. Most of the known occurrences are in the west cascade and east coast range foothills. There are not many wilderness areas or other permanently protected areas in those habitats. There are some permanently protected areas, and there may be more sites in wilderness areas centered around the high cascades so it is possible there are at least 9 more permanently protected sites. Therefore Russell gave this species an S3S4 ranking. S. Loring says "This species apparently goes under-reported in southwestern OR (Lane Co south to CA). I have seen it quite a few times and not reported it due it not being a target species (vascular plant, lichen, bryophyte surveys, or fungi surveys that exclude S/M...or simply hiking in the woods for recreation). As I cannot recall precise location info for most of those populations, I will go with the available numbers."

**Range Extent:** F = 20,000-200,000 sq km (~8,000-80,000 sq mi)

Comments: The Oregon range is 109,608 sq. km. There are sites in the Coast Range from Benton to Coos and Douglas Counties. There are sites in the Cascades from Hood River to Jackson and Klamath Counties, the Siskiyou mountains of Curry and Josephine Counties and a single site in Wallowa County.

**Population Size:** Not assessed

Comments: None

**Number of Occurrences:** D = 81 - 300

Comments: There are 101 known occurrences in Oregon. Loring reported an additional 10-15 additional sites of this species in SW OR in autumn 2017.

**Area of Occupancy:** F = 126-500 4-km<sup>2</sup> grid cells

Comments: This species occupies 152 grid squares in Oregon. Loring reported an additional 10-15 additional sites of this species in SW OR in autumn 2017.

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

Comments: One occurrence is in a wilderness area, 3 occurrences are in research natural areas.

**Environmental Sensitivity:** C = Moderate. Generalist or community with some key requirements scarce

Comments: A saprotroph on duff litter or rotten wood.

**Short Term Trends:** Not Evaluated

Comments: None

**Long Term Trends:** Not Evaluated

Comments: None

**Threat Impact:** CD = Medium - Low

Comments:

Approximately 97% of sites are not in permanently protected areas. If those sites are logged on a 40 year rotation, around 24% of sites would be impacted over 10 years and around 97% of sites would be impacted over 100 years. Loring states "I find it in mid-seral stands and in roads and trails, so I will assume it can withstand disturbance, at least somewhat."

**Intrinsic Vulnerability:** Not Evaluated

Comments: None

**Calculated Rank:** S3S4

**Rank Author:** Michael Russell; Lindsey Wise

**Rank Reviewer:** Scot Loring

**References:**

Kirk P.M. (2018). Species Fungorum (version Oct 2017). In: Roskov Y., Abucay L., Orrell T., Nicolson D., Bailly N., Kirk P.M., Bourgoin T., DeWalt R.E., Decock W., De Wever A., Nieukerken E. van, Zarucchi J., Penev L., eds. (2018). Species 2000 & ITIS Catalogue of Life, 31st May 2018. Digital resource at [www.catalogueoflife.org/col](http://www.catalogueoflife.org/col). Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-8858.

**Definitions and Resources:**

<b>Rank Prefixes</b>	
G	Global rank, applied to taxon's full geographic range
S	State rank, applied to taxon's range within the designated state
<b>Rank Values</b>	
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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