

## Heritage Rank Status Factors

**Elcode** NFSM000076  
**Gname** GAUTIERIA OTTHII  
**Gcomname**

### Number of Occurrences

C = 21 - 80  
D = 81 - 300  
E = >300

**Comments** This fungus has a broad range and it is difficult to understand the number of occurrences.

### Number of Occurrences with Good Viability

U = Unknown what number of occurrences with good viability

**Comments**

### Population Size

A = 1-50 individuals  
B = 50-250 individuals

**Comments**

### Range Extent

H = > 2,500,000 km<sup>2</sup> (greater than 1,000,000 square miles)

**Comments** Found in Europe, Alaska, Eastern and Western North America.

### Area of Occupancy

B = 0.4-4 km<sup>2</sup> (about 100-1,000 acres)

LB = 4-40 km (about 2.5-25 miles)

**Comments**

### Long-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

U = Unknown. Long-term trend in population, range, area occupied, or number or condition of occurrences unknown

**Comments**

### Short-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

U = Unknown. Short-term trend in population, range, area occupied, and number and condition of occurrences unknown.

**Comments**

## Threats

E = Localized substantial threat. Threat is moderate to severe for a small but significant proportion of the population, occurrences, or area. Ecological community occurrences are directly impacted over a small area, or in a small portion of their range, but threats require a long-term recovery.

Scope Low Severity Moderate Immediacy Moderate

Comments This is a mycorrhizal species it is dependent on a host tree for its carbohydrates. Studies have shown that if the tree is killed the mycorrhizal fungi die shortly after. The one possibly saving feature of this species is the spore bank. However, nothing is known about the spore bank of this species

## Number of Appropriately Protected and Managed Occurrences

B = Few (1-3) occurrences appropriately protected and managed

Comments

## Intrinsic Vulnerability

U = Unknown

Comments

## Environmental Specificity

C = Moderate. Generalist or community with some key requirements scarce.

Comments Because of the broad range the environmental specificity can't be narrow.

## Other Considerations

NRANK - NUQ. The specimens in the Western U.S. are probably a different species, not *G. otthii*.

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## Reasons

The broad range suggests that this is a successful fungus, although the taxonomy is clearly somewhat confused, especially as to how this is applied in the Pacific Northwest.

## BCD Sources

## New Sources

Trog, J.G. 1857. Naturforsch. Ges. Bern Mitt. P. 43.