

## Heritage Rank Status Factors

**Elcode** NFSM000075  
**Gname** GAUTIERIA MAGNICELLARIS  
**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, Mexico, 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 - NU. The specimens in the Western U.S. are probably a different species, not *G. magnicellaris*.

**Edition** 11/12/2002      **Edauthor** Francisco J. Camacho

**Grank** G3G5      **Grank Date** 11/12/2002

## Reasons

The broad range suggests that this is a successful fungus.

## BCD Sources

## New Sources

Cazares, E., J. Garcia, J. Castillo, J.M. Trappe. 1992. Hypogeous fungi from northern Mexico. *Mycologia* 84:341-359