

## Heritage Rank Status Factors

**Elcode** NF000HYKA2  
**Gname** HYGROPHORUS KARSTENII

### **Gcomname**

### **Number of Occurrences**

A = 1 - 5

**Comments** One documented occurrence seems to be all there is from North America. That collection was found in the range of the northern spotted owl in Mt. Rainier National Park and was gathered in 1948 (Fogel n.d.). It was identified as *H. karstenii* f. *minor* (Hesler and Smith 1963), a form described from Europe, probably northern Italy. The type variety (*H. karstenii* f. *karstenii*) is reported to occur in Scandinavia, the Alps, Black Forest, and the Voges (Moser 1967). The species is rated as V+ in the Norwegian Red List but not the form. This taxon is part of a complex that may be in need of revision.

### **Number of Occurrences with Good Viability**

A = No (A- or B- ranked) occurrences with good viability

**Comments** Either not found very often or not identified as this species when found.

### **Population Size**

Z = Zero, no individuals known extant

**Comments**

### **Range Extent**

**Comments** I'm not willing to say it is extinct until careful searches of the appropriate locality have been made at the right time of year. Mushrooms are notorious for their irregular fruitings.

### **Area of Occupancy**

Z = Zero (no occurrences believed extant)

LZ = Zero (no occurrences believed extant)

**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** Unknown or extinct, take your choice.

### **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** Unknown or extinct, take your choice.

### Threats

U = Unknown. The available information is not sufficient to assign degree of threat as above. (Severity, scope, and immediacy are all unknown, or mostly [two of three] unknown or not assessed [null].)

**Scope** Unknown      **Severity** Unknown      **Immediacy** Unknown

**Comments** It is very possible that this species, actually a form of *H. karstenii* if you consult Hesler and Smith (1963), should not have been listed in the first place. Forest-destroying or disturbing activities are the greatest threats to this species, if it is still extant in the area.

### Number of Appropriately Protected and Managed Occurrences

A = None. No occurrences appropriately protected and managed

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

**Comments** The only known occurrence is in a National Park in an area that looks much the same now as it did a bit over 50 years ago. Presumably that site is safe from logging at present and ground disturbing activities in the area are limited. But the species has not been recollected.

### Intrinsic Vulnerability

U = Unknown

**Comments** Because it has not been recognized from the region in at least 50 years there is no way to evaluate this factor.

### Environmental Specificity

A = Very Narrow. Specialist or community with key requirements scarce.

**Comments** Because it has not been recognized from the region in at least 50 years, the species likely has some limiting factors in terms of the habitat in which it flourishes.

### Other Considerations

NRANK - NH. This taxon is very poorly known and probably should not have been placed on the ROD list.

**Edition** 11/17/2002      **Edauthor** Nancy S. Weber

**Grank** G4      **Grank Date** 11/17/2002

### Reasons

This taxon is very poorly known and probably should not have been placed on the ROD list. It is known from one site in Washington. No specimens have been reported since the original collection was made.

### BCD Sources

### New Sources

Bendiksen et al. n.d. Bendiksen, E., Hoiland, K., Brandrud, T.E., and Jorda, J.B. n.d. Red List of Threatened Fungi in Norway. Retrieved 2002.11. from <http://www.toyen.uio.no/botanisk/bot-mus/sopp/>.

Castellano, M.A., Smith, J.A., O'Dell, T., Cazares, E., and Nugent, S. 1999. Handbook to Strategy 1 Fungal Species in the Northwest Forest Plan. Portland, Oregon: USDA Forest Service, PNWRS PNW-GTR-476.

Hesler, L.R., and Smith, A.H. 1963. North American Species of Hygrophorus. Knoxville, TN: The University of Tennessee Press. 416. pp. (note: Castellano et al. 1999 give title of book incorrectly as "North American Taxa of Hygrophorus").