

Oregon Status Factors

Elcode PPOPH010R0
Gname BOTRYCHIUM MINGANENSE
Gcomname Mingan's moonwort

Number of Occurrences

D = 81 - 300

Comments In Oregon, there are 115 known occurrences (ORNHIC 2002).

Number of Occurrences with Good Viability

E = Many (41-125) occurrences with good viability

Comments It is estimated that at least 41 occurrences are of good viability. Seven occurrences have 100+ individuals.

Population Size

E = 2,500-10,000 individuals

Comments Total plant numbers are reported to be about 3000. Most of the occurrences were reported with 15 plants or less; seven have 100+ individuals.

Range Extent

F = 20,000-200,000 km² (about 8,000-80,000 square miles)

Comments This moonwort has been reported from 13 of the 26 Oregon counties. The majority of the occurrences are in northeastern Oregon in Umatilla, Union and and Wallowa Counties.

Area of Occupancy

C = 4-20 km² (about 1,000-5,000 acres)

LC = 40-200 km (about 25-125 miles)

Comments Total area of occupancy estimated at 3000 acres.

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

E = Relatively Stable ($\pm 25\%$ change)

Comments

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

E = Stable. Population, range, area occupied, and/or number or condition of occurrences unchanged or remaining within $\pm 10\%$ fluctuation

Comments

Threats

H = Unthreatened. Threats if any, when considered in comparison with natural fluctuation and change, are minimal or very localized, not leading to significant loss or degradation of populations, occurrences, or area even over a few decades' time. (Severity, scope, and/or immediacy of threat considered Insignificant.)

Scope Insignificant Severity Insignificant Immediacy Moderate

Comments The most common threats noted are grazing and logging.

Number of Appropriately Protected and Managed Occurrences

C = Several (4-12) occurrences appropriately protected and managed

Comments At least 11 occurrences are within 2 different Wilderness Areas, and 2 are in 2 different Research Natural Areas (ORNHIC 2002). Ten occurrences are reported within the Eagle Cap Wilderness Area and 1 in South Fork Willow Creek Research Natural Area and Little Blitzen RNA. None are currently managed for *Botrychium minganense*.

Intrinsic Vulnerability

B = Moderately Vulnerable. Species exhibits moderate age of maturity, frequency of reproduction, and/or fecundity such that populations generally tend to recover from decreases in abundance over a period of several years (on the order of 5-20 years or 2-5 generations); or species has moderate dispersal capability such that extirpated populations generally become reestablished through natural recolonization (unaided by humans). Ecological community occurrences may be susceptible to changes in composition and structure but tend to recover through natural processes given reasonable time (10-100 years).

Comments

Environmental Specificity

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

Comments

Other Considerations

ORNHIC - List 4 (Currently on List 2)

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Grank S3 **Grank Date** 11/20/2002

Greasons

Botrychium minganense is known from 115 occurrences; total plant numbers are about 3000, total occupied acreage is about 3000, total range is about one half of the state. None of the populations are large; seven have more than 100 individuals and the majority have less than 15 individuals. Ten occurrences are within some kind of protected area.

BCD Sources

New Sources

Oregon Natural Heritage Information Center. November 2002. ORNHIC data set. Oregon Natural Heritage Information Center, Portland, OR.