California Status Factors

Elcode     PPOPH010R0
Gname      BOTRYCHIUM MINGANENSE
Gcomname   Mingan's moonwort

Number of Occurrences
A = 1 - 5
Comments  Only 2 occurrences known in California, 1 recent and the other last collected in 1920.

Number of Occurrences with Good Viability
A = No (A- or B- ranked) occurrences with good viability
Comments  The one extant population has about 40 individuals.

Population Size
A = 1-50 individuals
Comments  The one extant population has about 40 individuals.

Range Extent
F = 20,000-200,000 km2 (about 8,000-80,000 square miles)
Comments  The range is from Butte County in northern California south to Fresno County. The one extant site is located near the Butte/Tehama County line.

Area of Occupancy
A = <0.4 km2 (less than about 100 acres)
LA = <4 km (less than about 2.5 miles)
Comments  One small population.

Long-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences
Comments  Only 2 reports for this species in California--unable to determine long term trends.

Short-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences
D = Declining.  Decline of 10-30% in population, range, area occupied, and/or number or condition of occurrences
Comments  The one known site is in an area heavily grazed.
Threats
A = Substantial, imminent threat. Threat is moderate to severe and imminent for most (> 60%) of the population, occurrences, or area. Ecological community occurrences are directly impacted over a widespread area, either causing irreversible damage or requiring long term recovery

Scope High Severity Moderate Immediacy Moderate

Comments The only extant site is noted as being heavily grazed.

Number of Appropriately Protected and Managed Occurrences

A = None. No occurrences appropriately protected and managed

Comments No sites protected.

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
D = Broad. Generalist or community with all key requirements common.

Comments In California, the species grows in a mixed conifer forest, along a creek.

Other Considerations

Edition Edauthor
Grank S1.3 Grank Date

Greasons
Botrychium minganense is known from 1 population. Although growing on public land, it is not considered protected.

BCD Sources

New Sources