

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

Reasons

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

BCD Sources

New Sources

California Natural Diversity Data Base. August 2, 2002. CNDDDB CD data set. California Natural Diversity Data Base, Sacramento, CA.