

## California Status Factors

**Elcode** PMORC0Q080  
**Gname** CYPRIPEDIUM MONTANUM  
**Gcomname** mountain lady's slipper

### Number of Occurrences

D = 81 - 300  
E = >300

**Comments** From the ISMS data set (2002), it is estimated to have 60 occurrences in northern California. The state of California does not keep track of occurrences, but must have more than 80 probably more than 300.

### Number of Occurrences with Good Viability

U = Unknown what number of occurrences with good viability

**Comments** Quality of unknown sites unknown.

### Population Size

D = 1,000-2,500 individuals  
E = 2,500-10,000 individuals

**Comments** Estimated total plant numbers to be between 1000 to 10,000, tending more towards 2,500 to 10,000 (E choice)

### Range Extent

F = 20,000-200,000 km<sup>2</sup> (about 8,000-80,000 square miles)

**Comments** The range for this species is mainly northern California, except for the Great Central Valley. It occurs from the Oregon/California border south down to Marin County on the coastal side, and to mid Fresno County on the Sierra Nevada side.

### Area of Occupancy

U = Unknown

LU = Unknown

**Comments** Unknown

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

C = Substantial Decline (decline of 50-75%)  
D = Moderate Decline (decline of 25-50%)

**Comments** Probable population declines, due to habitat loss and alteration.

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

**Comments** Probable population declines, due to habitat loss and alteration.

### Threats

D = Moderate, non-imminent threat. Threat is moderate to severe but not imminent for a significant portion of the population, occurrences, or area.

**Scope** Moderate      **Severity** Moderate      **Immediacy** Low

**Comments** This species does not appear to tolerate disturbance. Attempts to reestablish plants on disturbed sites has been unsuccessful, though attempts have been successful on undisturbed areas (personal communication, Huber 2000).

### Number of Appropriately Protected and Managed Occurrences

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

**Comments** It is assumed that at least 4 sites are 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** In the very best environment it takes *Cypripedium montanum* at least six undisturbed years to make its first flower, with most plants taking much longer (personal communication, Huber 2000).

### Environmental Specificity

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

**Comments** It needs an intact layer of duff to initially establish its mycorrhizal association and 50%-75% shade for optimum growth (personal communication, Huber 2000).

### Other Considerations

**Edition** 11/25/2002      **Edauthor** Vrilakas, Sue

**Grank** S4      **Grank Date** 11/25/2002

### Greasons

Although habitat loss and alteration is a major threat, there are still abundant enough numbers of plants and populations to warrant a rank of S4.

### BCD Sources

### New Sources

Huber, Andy. 2000. Personal communication to Oregon Natural Heritage Information Center, Portland, OR Interagency Species Management System. November 20002. ISMS data set. ISMS BLM and USFS, Portland, OR.