

Heritage Ranking Form - Global Rank

Scientific Name: Calochortus howellii

Common Name: Howell's mariposa-lily

Classification: Vascular Plant

Range Extent: C = 250-1,000 sq km (~100-400 sq mi)

Comments: 196 square miles, convex hull ORBIC eos; Oregon endemic

Area of Occupancy: E = 26-125 4-km² grid cells

Comments: 56 grid cells

Number of

Occurrences: C = 21 - 80

Comments: 23 occurrences (1 km separation distance)

Population Size: F = 10,000 - 100,000 individuals

Comments: 38000-62000+ plants

Good Viability: C = Few (4-12) occurrences with excellent or good viability or ecological integrity

Comments: 9-10 good to excellent occurrences

Environmental

Specificity: A = Very narrow. Specialist or community with key requirements scarce

Comments: Serpentine Jeffrey pine savannas (Fredricks 1992)

Short Term Trends: FG = Decline of <30% to relatively stable

Comments: None

Long Term Trends: FG = Decline of <30% to relatively stable

Comments: None

Threat Impact: B = High

Comments: Multiple threats: Mining and associated activities, cattle grazing, increase shrub density due to fire suppression, and herbivory

Intrinsic Vulnerability: A = Highly vulnerable

Comments: Very long-lived

Heritage Rank: G3

Comments: This species is very long-lived with a low recruitment rate (3%) (Fredricks 1992). Although it has had relatively stable population numbers, threats may impact population numbers in the future.

Rank Notes: None

Reference: Fredricks, N.A. 1992. Population biology of rare mariposa lilies (*Calochortus*: Liliaceae) endemic to serpentine soils in southwestern Oregon. PhD Thesis, Oregon State University, Corvallis, OR. Fredricks, N.A. 1988. Species management guide for *Calochortus howellii*. Oregon Department of Agriculture, Salem, OR.

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Rank Author: Vrilakas, Sue

Oregon Biodiversity Information Center
Institute for Natural Resources
Portland State University
Mail Stop: INR, PO Box 751
Portland, OR 97207-0751
503-725-9950
www.orbic.pdx.edu