

Heritage Ranking Form - State Rank

Scientific Name: *Tauschia howellii*

Common Name: Howell's tauschia

Classification: Vascular Plant

Range Extent: A = <100 sq km (< ~40 sq mi)

Very small range in Oregon, about 2.5 sq km.

Population Size: EF = 2500 - 100,000 individuals

Comments: Several healthy patches in surveys from 2000-2004, with plant counts ranging in the 100s to 1000s. One population had an estimated 10,000 plants in 1990.

Number of Occurrences: A = 1 - 5

Comments: One EO using 1km separation distance (ORBIC tracks 5 EOs using a 0.5km separation distance).

Area of Occupancy: A = 1 4-km² grid cell

Comments: 3 occupied 4 km² grid cells.

Good Viability: B = Very few (1-3) occurrences with excellent or good viability or ecological integrity

Comments: Good viability using an average of all patches.

Environmental Specificity: B = Narrow. Specialist or community with key requirements common

Comments: On loose granitic sand/gravel on dry, alpine and subalpine ridges and slopes at (1700) 2000-2500 m elevation, often adjacent to Shasta red fir (*Abies magnifica* var. *shastensis*) forests (Meinke 1982; Hickman 1993).

Short Term Trends: G = Relatively Stable (<=10% change)

Comments: Surveys in 1990s and 2000s indicated healthy populations.

Long Term Trends: U = Unknown

Comments: No long term survey data available.

Threat Impact: C = Medium

Comments: Calculated as moderately vulnerable to climate change. May be vulnerable to trampling, vehicles, deer and cattle grazing (NatureServe).

Intrinsic Vulnerability: Not Evaluated

Comments: None

Heritage Rank: S1

Comments: Extremely geographically limited in Oregon with one apparently stable EO (using 1km separation distance). Moderately vulnerable to climate change as it is located in alpine and subalpine areas.

Rank Notes: None

Reference: Meinke, R.J. 1982. Threatened and Endangered Vascular Plants of Oregon: An Illustrated Guide. U.S. Fish and Wildlife Service, Region 1, Portland, Oregon. 326 pp. Hickman, J. C., ed. 1993. The Jepson manual: Higher plants of California. University of California Press, Berkeley, CA. 1400 pp.

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