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