

# Heritage Ranking Form - State Rank

**Scientific Name:** Trifolium owyheense

**Common Name:** Owyhee clover

**Classification:** Vascular Plant

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

Found in drainages of Lower Owyhee River (Lake Owyhee) and Succor Creek, Malheur County, Oregon. Calculated range about 670 sq. km from convex hull of extant sites.

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

Comments: Estimated 20,000 plants, though many sites do not have population counts or do not have recent counts. Several thousand plants reported in 2000s and 2010s.

**Number of Occurrences:** C = 21 - 80

Comments: About 31 occurrences using 1km separation distance.

**Area of Occupancy:** E = 26-125 4-km<sup>2</sup> grid cells

Comments: About 40 occupied 4km<sup>2</sup> grid cells.

**Good Viability:** CD = Few to some (4-40) occurrences with good viability

Comments: About 8 EOs with excellent or good viability using 1km separation distance. Could be more, many sites did not have detailed information.

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

Comments: Restricted to ash deposits

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

Comments: Revisit data is limited.

**Long Term Trends:** FH = Decline of <30% to increase of 25%

Comments: None

**Threat Impact:** B = High

Comments: Threatened in Leslie Gulch by ORV use and herbivory (suspected by rabbits, deer, horses, and cattle), and cattle grazing, non-native plants, and mining elsewhere. Several sites note that plants seem to be tolerating low to medium grazing pressure by native animals and cattle/horses, though notes may be decades old. Calculated as moderately vulnerable to climate change.

**Intrinsic Vulnerability:** U = Unknown

Comments: None

**Heritage Rank:** S2

Comments: Known from less than 40 occurrences with less than 25,000 plants. Grows in restricted and limited habitat. Herbivory, non-native plants, and climate change are threats. No protective actions have been taken in Oregon. Many sites have not been visited in past 15 years or more.

Rank Notes: Calculator Rank (unrevised)=S2S3. BLM has not been able to set up monitoring plots, and no protective actions have been taken. Threats have not decreased.

Reference: Gisler and Kaye, 2004. Conservation research in the Leslie Gulch ACEC: Population monitoring for *Trifolium owyheense* and seed bank dynamics in *Senecio ertterae*. Institute for Applied Ecology, Corvallis, OR. 26 pp. Findley, Jean. 2007. Memo: Assessment of threats to Owyhee clover (*Trifolium owyheense*), Vale District BLM. 1 pp. Mancuso, Michael. 2001. The status of *Trifolium owyheense* (Owyhee clover) in Idaho. Idaho Conservation Data Center. 29 pp.

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