Natural Heritage Ranking Form - Oregon State Rank

Oregon Ranking Form Owyhee clover (Trifolium owyheense)

Owyhee clover

Scientific Name Common Name Trifolium owyheense

Oregon Biodiversity Information Center

ELCODE

Element ID 8640

PDFAB401T0

CONSERVATION STATUS RANK					
Assigned Rank	S2S3				
Rank Assignment	Author Wise, Lindsey	Rank Review Date	5/01/2013		
Rank Factors Auth	or Wise, Lindsey	Rank Factors Date	04/08/2022		
Calculated Rank	S2S3	Rank Change Date	05/31/1984		
Rank Methodology	Vused Rank calculation - Biotics v2				
Assigned Rank Rea	isons				
plants, and clin	-	ts. Grows in restricted and limited habitat. Herbivory, inated by cheatgrass. However, 2016-2020 BLM sur s of plants.			
	RANG	E/DISTRIBUTION			
Range Extent	050 4000				
Rating	250-1000 square km (about 100-400 square miles)				
Comments	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.				
Area of Occupancy					
Grid Cell Size					
Rating (as Nur	mber of 4 km2 Grid Cells) E = 26-12	5			
Rating (as Nur Comments	mber of 4 km2 Grid Cells)E = 26-12About 40 occupied 4km2 grid cells.	5			
	About 40 occupied 4km2 grid cells.	5 CE AND CONDITION			
Comments	About 40 occupied 4km2 grid cells.				
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Comments Number of Occurrer Rating Comments About 31 oc	About 40 occupied 4km2 grid cells. ABUNDAN Aces 21 - 80 ccurrences using 1km separation distance.				
Comments Number of Occurrer Rating Comments About 31 oc Population Size Rating Comments	About 40 occupied 4km2 grid cells. ABUNDAN ACCONCENTRATE OF A CONCENTRATE		 110s.		
Comments Number of Occurrer Rating Comments About 31 oc Population Size Rating Comments	About 40 occupied 4km2 grid cells. About 40 occupied 4km2 grid cells. ABUNDAN aces 21 - 80 ccurrences using 1km separation distance. 10,000 - 100,000 individuals surveys in 2016-2020, estimated 60,000 plant	CE AND CONDITION	110s.		
Comments Number of Occurrer Rating Comments About 31 oc Population Size Rating Comments From BLM s Good Viability/Ecolor	About 40 occupied 4km2 grid cells. About 40 occupied 4km2 grid cells. ABUNDAN aces 21 - 80 ccurrences using 1km separation distance. 10,000 - 100,000 individuals surveys in 2016-2020, estimated 60,000 plant	CE AND CONDITION			

SPECIES ASSESSED

https://inr.oregonstate.edu/orbic

Oregon Biodiversity Information Center

Number of Protected and Managed Occurrences

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

Number of Protected and Managed Occurrences Comments

Occurrences in Leslie Gulch are in the ACEC; 2 occurrences in a WSA

Calculated Overall Threat Impact

Assigned Overall Threat Impact B = High Overall Threat Impact 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 nativ

TRENDS

THREATS

Short-Term Trend

Rating G = Relatively Stable (<=10% change)

Long-Term Trend

Rating

FH = Decline of <30% to increase of 25%

OTHER FACTORS Intrinsic Vulnerability Rating Unknown Comments Very narrow. Specialist or community with key requirements scarce. Comments Very narrow. Specialist or community with key requirements scarce. Comments ADDITIONAL SPECIES INFORMATION Oregon Habitat Comments Inhabits bleak slopes composed of loose diatomaceous talus or volcanic ash. Surrounding plant communities are dominated by sagebrush and juniper, with the few direct associates being annuals: Mimulus cusickii, Senecio ertterae, Mentzelia spp. Ranking REFERENCES Short Citation Author Year Full Citation

RANKING REFERENCES		
Short Citation Author	<u>Year</u>	Full Citation
Findley	2007	Findley, Jean. 2007. Memo: Assessment of threats to Owyhee clover (Trifolium owyheense), Vale District BLM. 1 pp.
Gisler and Kaye	2004	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.
Manusco	2001	Mancuso, Michael. 2001. The status of Trifolium owyheense (Owyhee clover) in Idaho. Idaho Conservation Data Center. 29 pp.

Oregon Biodiversity Information Center, Institute for Natural Resources

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Additional ORBIC species ranking forms posted at

https://inr.oregonstate.edu/orbic/rare-species/ranking-documentation

RESOURCES

Oregon Ranking Form Owyhee clover (Trifolium owyheense)

Information on Natural Heritage ranking methodology is available at http://www.natureserve.org/biodiversity-science/publications/natureserve-conservation-status-assessments-methodology-assigning

The Conservation Rank Calculator is developed and maintained by NatureServe and is available from http://www.natureserve.org/conservation-tools/conservation-rank-calculator

ASSESSMENT CITATION

Oregon Biodiversity Information Center. 2013. Oregon state rank assessment for Owyhee clover (Trifolium owyheense). Institute for Natural Resources, Portland State University, Portland, OR.