

Heritage Ranking Form - Global Rank

Scientific Name: Eriogonum chrysops

Common Name: Golden Buckwheat

Classification: Vascular Plant

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

Only known to occur on/near Steens Mountain, Harney County, Oregon. 47 km² using convex hull.

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

Comments: Counts in 2000s are about 30,000 plants - most in one population.

Number of Occurrences: A = 1 - 5

Comments: 5 occurrences using 1 km separation distance.

Area of Occupancy: C = 3-5 4-km² grid cells

Comments: 5 4km² grid cells occupied.

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

Comments: None

Environmental Specificity: Not Evaluated

Comments: None

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

Comments: Monitoring in 1990s and 2000s show stable populations or slight increase.

Long Term Trends: U = Unknown

Comments: None

Threat Impact: C = Medium

Comments: Recreational use, invasive species, and possible grazing. The lava flow habitat discourages use by livestock and ORVs. Presumed stable/not vulnerable to climate change.

Intrinsic Vulnerability: B = Moderately vulnerable

Comments: None

Heritage Rank: G2

Comments: Endemic to a small area in southeastern Oregon. This species was rediscovered in 1988, nearly 90 years after it had last been observed. Although there are very few sites the populations appear stable and threats seem minimal. Site conditions should continue to be monitored. 90% of the plant's population is located at one site, so particular attention should be given to this location to ensure it remains stable.

Rank Notes: None

Reference: None

Rank Date: 11/9/2012
Rank Author: Lindsey Wise

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Species	Species Data: <i>Eriogonum chryosps</i>	Index Result: Not Vulnerable/Presumed Stable
English Name	Golden Buckwheat	Confidence Very High
Taxonomic Group	Vascular Plant	(confidence in species information)
Geographic Area	Malheur County	
Range Rel.	Entire range	Assessor Lindsey Wise
Cave/Ground Water Obligate	No	
GRank	G2	
SRank	S2	

Climate Change Vulnerability Index Values: (greatest shown when range was selected)

Temperature Scope	A >5.5F	0
	A 5.1F	0
	A 4.5F	100
	A 3.9F	0
	A <3.9F	0
Hamon AET:PET Moisture Metric Scope	< -0.119	0
	-0.119	5
	-0.096	95
	-0.073	0
	-0.05	0
	>-0.028	0
Sea level rise	B1	N
Natural barriers	B2a	N
Anthropogenic barriers	B2b	N
Climate Change mitigation	B3	N
Dispersal/Movement	C1	N
Historical thermal niche	C2ai	N
Physiological thermal niche	C2aii	N
Historical hydrological niche	C2bi	GI
Physiol. hydrological niche	C2bii	N
Disturbance dependence	C2c	N
Ice/snow dependence	C2d	N
Physical habitat restrictions	C3	N
Other spp create habitat	C4a	N
Dietary Versatility	C4b	N/A
Pollinator Versatility	C4c	N/A
Other spp for dispersal	C4d	N
Other spp interaction	C4e	U
Genetic variation	C5a	U
Genetic bottleneck	C5b	U
Phenological response	C6	U
Documented response	D1	U
Modeled change	D2	U
Modeled overlap	D3	U
Modeled protected Areas	D4	U

Affect to Vulnerability:
GI = Greatly Increase
Inc = Increase
SI = Somewhat Increase
N = Neutral
SD = Somewhat Decrease
Dec = Decrease
U = Unknown

Index Scores:
Extremely Vulnerable: Abundance and/or range extent within geographical area assessed extremely likely to substantially decrease or disappear by 2050.
Highly Vulnerable: Abundance and/or range extent within geographical area assessed likely to decrease significantly by 2050.
Moderately Vulnerable: Abundance and/or range extent within geographical area assessed likely to decrease by 2050.
Not Vulnerable/Presumed Stable: Available evidence does not suggest that abundance and/or range extent within the geographical area assessed will change (increase/decrease) substantially by 2050. Actual range boundaries may change.
Not Vulnerable/Increase Likely: Available evidence suggests that abundance and/or range extent within geographical area assessed is likely to increase by 2050.

Assessment Notes: Climate and precipitation data from Climate Wizard using the A1B emissions scenario and ensemble average general circulation model. Historical = past 50 years; Future = mid-century (2050s). Species data from ORBIC database. Assessment performed in conjunction with the Element Rank Calculator.

Index Notes: Species range may shift and perhaps leave the assessment area.