

**Species:**

*Eriogonum crosbyae* var.

*crosbyae*

**Crosby's buckwheat**

Vascular Plant

Eastern Oregon

**Index Result:**

**Highly Vulnerable**

**Confidence Low**

(based on entered data)

Date Assessed 1/9/2020

GRank G3T3

SRank S2

Assessor Sue Vrillakas

Scientific Name  
Common Name  
Taxonomic Group

Geographic Area

Cave/Ground Water Obligate: No

Migratory area included in assessment: No

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

Category	Factor	Score	Comments
Temperature Scope (predicted increase)	A >6.0F	0	
	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	0	
	-0.096	41	
	-0.073	59	
	-0.05	0	
	>-0.028	0	
Sea level rise Natural barriers Anthropogenic barriers Climate Change mitigation	B1	N	See C1 - Dispersal and movements
	B2a	N	
	B2b	N	
	B3	N	
Dispersal/Movement	C1	Inc	Habitat (tuffaceous ash) limited Mean seasonal temperature variation about 60 deg
	C2ai	N	
	C2aii	N	Only occupied cells evaluated; precipitation change of 0.9703 Dependent on seasonal moisture
	C2bi	GI	
	C2bii	GI	Wildfire frequency and intensity may increase
	C2c	SI	
	C2d	N	Endemic to light colored ash
	C3	SI	
	C4a	N	Assumed to have no dependence on one or few pollinators. Assumed to have no dependence on other species for seed dispersal Assumed to have no sensitivity to specific pathogens
	C4b	U	
	C4c	N	
	C4d	N	
	C4e	N	
	C4f	N	
	C4g	N	
	C5a	U	
C5b	U		
C5c	U		
C6	U		

Documented response	D1	U	
Modeled change	D2	U	
Modeled overlap	D3	U	
Modeled protected areas	D4	U	

**Additional Notes:**

Range map created using ArcMap Miminum Mapping Boundary-Convex Hull on ORBIC element occurrence data. Climate and precipitation data from Climate Wizard using the A1B emissions scenario and ensemble average general circulation model: Historical = 1951-2006; Future = mid-century (2050s); Hamon AET:PET moisture metric (Hamon 1961).

Detailed definitions of criteria and methodology can be found in the documentation at <http://www.natureserve.org/conservation-tools/climate-change-vulnerability-index>

**Legend and Definitions:**

<b>Affect to Vulnerability:</b>
GI = Greatly increase
Inc = Increase
SI = Somewhat increase
N = Neutral
U = Unknown

**Index Scores:**

<p><b>Extremely Vulnerable:</b> Abundance and/or range extent within geographical area assessed extremely likely to substantially decrease or disappear by 2050.</p> <p><b>Highly Vulnerable:</b> Abundance and/or range extent within geographical area assessed likely to decrease significantly by 2050.</p> <p><b>Moderately Vulnerable:</b> Abundance and/or range extent within geographical area assessed likely to decrease by 2050.</p> <p><b>Less Vulnerable:</b> 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.</p> <p><b>Insufficient Evidence:</b> Information entered about a species' vulnerability is inadequate to calculate an Index score.</p>
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**Citation:**

Oregon Biodiversity Information Center. 2020. Climate Change Vulnerability Index assessment for Crosby's buckwheat (*Eriogonum crosbyae* var. *crosbyae*). Institute for Natural Resources, Portland State University, Portland, OR.