

**Species:**  
 Scientific Name *Ericameria arborescens*  
 Common Name **Golden fleece**  
 Taxonomic Group Vascular Plant  
 Geographic Area SW Oregon

**Index Result:**  
**Less Vulnerable**  
**Confidence Very High**  
 (based on entered data)  
 Date Assessed 5/6/2020  
 GRank G4  
 SRank S1  
 Assessor Sue Vrilakas

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	0	
	A 3.9F	0	
	A <3.9F	100	
Hamon AET:PET Moisture Metric Scope	< -0.119	0	
	-0.119	0	
	-0.096	100	
	-0.073	0	
	-0.05	0	
	>-0.028	0	
Sea level rise Natural barriers Anthropogenic barriers Climate Change mitigation	B1	N	Interior species
	B2a	N	
	B2b	N	
	B3	U	
Dispersal/Movement	C1	SI	Species also grows in California where it can be found scattered throughout the state.
Historical thermal niche	C2ai	GI	About 50% in very small temperature variation; 50% in smal temperature variation
Physiological thermal niche	C2aai	N	Highest value 108.0487; lowest 81.5845; difference=26.4642
Historical hydrological niche	C2bi	N	
Physiol. hydrological niche	C2bii	N	Maybe affected by increased fire and fire frequency
Disturbance dependence	C2c	SI	
Ice/snow dependence	C2d	N	
Physical habitat restrictions	C3	N	
Other spp create habitat	C4a	N	
Dietary Versatility	C4b	U	
Pollinator Versatility	C4c	N	
Other spp for dispersal	C4d	N	
Pathogen sensitivity	C4e	N	
Competition sensitivity	C4f	N	
Interspecific Relationship	C4g	U	
Measured genetic variation	C5a	U	
Bottlenecks	C5b	U	
Plant reproductive system	C5c	U	
Phenological response	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, 4-29-2020 export. 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).

**References:****Data sources and notes:**

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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:**

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

**Citation:**

Oregon Biodiversity Information Center. 2020. Climate Change Vulnerability Index assessment for Golden fleece (*Ericameria arborescens*). Institute for Natural Resources, Portland State University, Portland, OR.