

<b>Species Data:</b>	<b>Index Result:</b>
Species: <i>Thelypodium brachycarpum</i>	<b>Less Vulnerable</b>
English Name: <b>Short-podded thelypody</b>	<b>Confidence Low</b>
Taxonomic Group: Vascular Plant	(based on entered data)
Geographic Area: Klamath county	
Cave/Ground Water Obligate: No	GRank: G3
Migratory area included in assessment: No	SRank: S2
	Assessor: Caitlin Lawrence

**Climate Change Vulnerability Index Values:** (greatest 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	100	
	A <3.9F	0	
Hamon AET:PET Moisture Metric Scope	< -0.119	0	
	-0.119	4	
	-0.096	56	
	-0.073	40	
	-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	<p>The full range of the species has areas that would put the range over 20 inches, but considering just the cells where occurrences exist it is around 16 inches. Found in moist meadows</p> <p>Found on serpentine or alkaline soils, NatureServe lists its environmental specificity as very narrow. Specialist or community with key requirements scarce. (NatureServe)</p>
Historical thermal niche	C2ai	SI	
Physiological thermal niche	C2aii	N	
Historical hydrological niche	C2bi	SI	
Physiol. hydrological niche	C2bii	SI	
Disturbance dependence	C2c	N	
Ice/snow dependence	C2d	N	
Physical habitat restrictions	C3	Inc	
Other spp create habitat	C4a	N	
Dietary Versatility	C4b	U	
Pollinator Versatility	C4c	N	
Other spp for dispersal	C4d	N	
Pathogen sensitivity	C4e	N	
	C4f	N	
Competition sensitivity		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	

**Data sources and 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. Other resources consulted: NREL national wind resources, 50m resolution ([http://www.nrel.gov/gis/data\\_analysis\\_background.html](http://www.nrel.gov/gis/data_analysis_background.html)); SILVIS lab Wildland Urban Interface 2010 layer ([http://silvis.forest.wisc.edu/maps/wui\\_main](http://silvis.forest.wisc.edu/maps/wui_main)); Oregon Department of Geology and Mineral Industries geologic map (<http://www.oregongeology.org/sub/publications/GMS/gms.htm>); US mining claims on federal lands (<http://mrddata.usgs.gov/mine-claim/>); Oregon Protected Areas Database (<http://gapanalysis.usgs.gov/padus/data/>).

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

**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.

**Less Vulnerable:** 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.

**Insufficient Evidence:** Information entered about a species' vulnerability is inadequate to calculate an Index score.