

Scientific Name	Species: <i>Pogogyne floribunda</i>	Index Result: Highly Vulnerable
Common Name	Profuse-flowered mesa mint	Confidence Moderate
Taxonomic Group	Vascular Plant	(based on entered data)
Geographic Area	Eastern Oregon	Date Assessed 5/12/2020
Cave/Ground Water Obligate: No		GRank G4
Migratory area included in assessment: No		SRank S1
		Assessor Sue Vrilakas

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	10	
	A 4.5F	90	
	A 3.9F	0	
	A <3.9F	0	
Hamon AET:PET Moisture Metric Scope	< -0.119	0	
	-0.119	14	
	-0.096	48	
	-0.073	32	
	-0.05	6	
	>-0.028	0	
Sea level rise Natural barriers Anthropogenic barriers Climate Change mitigation	B1	N	Interior species
	B2a	N	
	B2b	N	
	B3	N	
Dispersal/Movement Historical thermal niche Physiological thermal niche Historical hydrological niche Physiol. hydrological niche Disturbance dependence Ice/snow dependence Physical habitat restrictions Other spp create habitat Dietary Versatility Pollinator Versatility Other spp for dispersal Pathogen sensitivity Competition sensitivity Interspecific Relationship Measured genetic variation Bottlenecks Plant reproductive system Phenological response	C1	SI	Current range somewhat widespread Highest value 17.7720; lowest 10.6403; difference=7.1317 Vernal pool, seasonal ponds, ephemeral wetlands in drier areas Limited to vernal pools
	C2ai	N	
	C2aii	N	
	C2bi	Inc	
	C2bii	GI	
	C2c	N	
	C2d	N	
	C3	SI	
	C4a	N	
	C4b	U	
	C4c	N	
	C4d	N	
	C4e	N	
	C4f	U	
	C4g	U	
	C5a	U	
C5b	U		
C5c	U		
C6	U		
Documented response Modeled change Modeled overlap	D1	U	
	D2	U	
	D3	U	

Modeled protected areas	D4	U
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Additional Notes:

Range map created using ArcMap Minimum 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:

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

Index Scores:

<p>Extremely Vulnerable: Abundance and/or range extent within geographical area assessed extremely likely to substantially decrease or disappear by 2050.</p> <p>Highly Vulnerable: Abundance and/or range extent within geographical area assessed likely to decrease significantly by 2050.</p> <p>Moderately Vulnerable: Abundance and/or range extent within geographical area assessed likely to decrease by 2050.</p> <p>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.</p> <p>Insufficient Evidence: 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 Profuse-flowered mesa mint (*Pogogyne floribunda*). Institute for Natural Resources, Portland State University, Portland, OR.