Species Data: Index Result:

Species Filipendula occidentalis Less Vulnerable

English Name Queen-of-the-forest Confidence Very High Taxonomic Group Vascular Plant (based on entered data)

Geographic Area NW Oregon

GRank G2
Cave/Ground Water Obligate No SRank S2

Migratory area included in

assessment: No Assessor Sue Vrilakas

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

Climate Change Vulnerability Index Values:		(greatest shown when range was selected)	
Category	Factor	Score	Comments
	A >6.0F	0	
	A 5.5F	0	
Temperature Scope	A 5.1F	0	
(predicted increase)	A 4.5F	0	
	A 3.9F	0	
	A <3.9F	100	
	< -0.119	0	
Llower AFT-DFT Meighturg	-0.119	0	
Hamon AET:PET Moisture Metric Scope	-0.096	100 0	
Metric Scope	-0.073 -0.05	0	
	>-0.03	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	GI	
Physiological thermal niche	C2aii	SI	
Historical hydrological niche	C2bi	N	Maximum 189.6112; minimum 74.1823
Physiol. hydrological niche	C2bii	SI	All of the populations near watercourses but plan
Disturbance dependence	C2c	N	
Ice/snow dependence	C2d	N	
Physical habitat restrictions	C3	N	
Other spp create habitat	C4a	N	
Dietary Versatility	C4b	U	
Pollinator Versatility	C4c	U	
Other spp for dispersal	C4d	N	
Pathogen sensitivity	C4e	N	
Competition sensitivity	C4f	N	
Interspecific Relationship	C4g	N	
Measured genetic variation	C5a	U	
Bottlenecks	C5b	Ū	
Plant reproductive system	C5c	Ü	
Phenological response	C6	Ü	
Documented response	D1	Ü	
Modeled change	D2	Ü	
Modeled overlap	D3	Ü	
Modeled protected areas	D4	Ü	
modeled protected areas	l 27		

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); SILVIS lab Wildland Urban Interface 2010 layer (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://mrdata.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

score.

Legend and Definitions



Index Scores:

Extremely Vulterable: 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