

Species	Species Data: <i>Carex tiogana</i>	Index Result: Extremely Vulnerable
English Name	Tioga pass sedge	Confidence Very High
Taxonomic Group	Vascular Plant	(confidence in species information)
Geographic Area	SE Oregon	
Range Rel.	Northern edge of range	Assessor Lindsey Wise
Cave/Ground Water Obligate	No	
GRank	G1	
SRank	S1	

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

Temperature Scope	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	100
	-0.096	0
	-0.073	0
	-0.05	0
	>-0.028	0
Sea level rise	B1	N
Natural barriers	B2a	N
Anthropogenic barriers	B2b	N
Climate Change mitigation	B3	Inc
Dispersal/Movement	C1	U
Historical thermal niche	C2ai	N
Physiological thermal niche	C2aii	GI
Historical hydrological niche	C2bi	GI
Physiol. hydrological niche	C2bii	GI
Disturbance dependence	C2c	N
Ice/snow dependence	C2d	Inc
Physical habitat restrictions	C3	SI
Other spp create habitat	C4a	N
Dietary Versatility	C4b	N/A
Pollinator Versatility	C4c	N
Other spp for dispersal	C4d	N
Other spp interaction	C4e	N
Genetic variation	C5a	U
Genetic bottleneck	C5b	U
Phenological response	C6	U
Documented response	D1	U
Modeled change	D2	U
Modeled overlap	D3	U
Modeled protected Areas	D4	U

Affect to Vulnerability:
GI = Greatly Increase
Inc = Increase
SI = Somewhat Increase
N = Neutral
SD = Somewhat Decrease
Dec = Decrease
U = Unknown

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.
Not Vulnerable/Presumed Stable: 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.
Not Vulnerable/Increase Likely: Available evidence suggests that abundance and/or range extent within geographical area assessed is likely to increase by 2050.

Assessment 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.

Index Notes: