Species: Carex tiogana

English Name: Tioga pass sedge

Taxonomic Group: Vascular Plant

Geographic Area: SE Oregon

Range Rel.: Northern edge of range

Cave/Ground Water Obligate: No

GRank: G1

SRank: S1

Index Result: Extremely Vulnerable

Confidence: Very High

Assessor: Lindsey Wise

Climate Change Vulnerability Index Values:

<table>
<thead>
<tr>
<th>Temperature Scope</th>
<th>A &gt;5.5F</th>
<th>A 5.1F</th>
<th>A 4.5F</th>
<th>A 3.9F</th>
<th>A &lt;3.9F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>100</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hamon AET:PET Moisture</th>
<th>&lt; -0.119</th>
<th>-0.119</th>
<th>-0.096</th>
<th>-0.073</th>
<th>-0.05</th>
<th>&gt;-0.028</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metric Scope</td>
<td>B1</td>
<td>B2a</td>
<td>B2b</td>
<td>B3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>Inc</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

calculator version 2.1 http://www.natureserve.org/prodServices/climatechange/ccvi.jsp