

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Carex misandra</i> / Short-leaf Sedge			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	AB	<p>Short-leaf Sedge is disjunct in the Rocky Mountains of Region 2. In Wyoming, it is known from the Beartooth, Bighorn, and Wind River ranges in Fremont, Johnson, and Park counties, on the Shoshone and Bighorn national forests. It also occurs in Colorado and additional information is needed to determine its status in Region 2.</p> <p>This species is found in wet meadows, along streambanks, in willow thickets, and in stony or turfy places in the alpine and upper subalpine zones at elevations between 9500-11240 feet. In eastern Wyoming, it is in "tundra slopes and basins" (Weber and Wittman 2001). This habitat is fairly widespread across the landscape, particularly in Colorado.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> <li>• Dorn 2001</li> <li>• Fertig 1999, 2000</li> <li>• Fertig and Bynum 1994</li> <li>• Johnson 1962</li> <li>• Jones and Fertig 1999</li> <li>• Johnston 2001</li> <li>• Scott 1997</li> <li>• University of Wyoming 1998</li> <li>• Weber and Wittman 2001</li> <li>• Welp et al. 1998</li> </ul>
2 Distribution outside R2	B	<p>Short-leaf Sedge is circumboreal. In North America it is found from Alaska to Greenland south to Quebec and Alberta, with disjunct populations in Montana, northwest Wyoming, Colorado, and Utah.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> <li>• Cronquist et al. 1977</li> <li>• Fertig 1999, 2000</li> <li>• Fertig and Bynum 1994</li> <li>• Hermann 1970</li> <li>• Hitchcock et al. 1969</li> <li>• Johnson 1962</li> </ul>
3 Dispersal Capability	D	<p>Dispersal vectors are not known.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> <li>• -</li> </ul>
4 Abundance in R2	AB	<p>This species is known from 4 occurrences in Wyoming, all of which have been observed since 1985 (most recently observed in 1999). All known populations are on either the Shoshone or Bighorn National Forests.</p> <p>It is ranked "S1" in Wyoming and is present but not ranked in Colorado.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> <li>• Dorn 1992</li> <li>• Fertig 1999, 2000</li> <li>• Fertig and Bynum 1994</li> <li>• Johnson 1962</li> <li>• Jones and Fertig 1999</li> <li>• Scott 1997</li> <li>• Welp et al. 1998</li> </ul>

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5 Population Trend in R2	D	Census data are not available.  Confidence in Rank High	• -
6 Habitat Trend in R2	D	Not known.  Confidence in Rank High	• -
7 Habitat Vulnerability or Modification	B	This species may be vulnerable to hydrological changes in the surrounding watershed. One population is protected in the Fitzpatrick Wilderness and one is in the proposed McLain Lake Research Natural Area. The other occurrences are on land managed for multiple-use.  Confidence in Rank Medium	<ul style="list-style-type: none"> <li>• Fertig 1999, 2000</li> <li>• Fertig and Bynum 1994</li> <li>• Johnson 1962</li> <li>• Jones and Fertig 1999</li> <li>• Welp et al. 1998</li> </ul>
8 Life History and Demographics	D	Short-leaf Sedge is a wind-pollinated, tufted perennial that flowers and fruits more than once in its lifecycle. Flowering and fruiting occur from July through August.  Additional information on the species, including life history stages, population structure, longevity, mortality, and seed biology, are not available.  Confidence in Rank High	<ul style="list-style-type: none"> <li>• Cronquist et al. 1977</li> <li>• Hitchcock et al. 1969</li> <li>• WYNDD 2001</li> </ul>
Initial Evaluator(s): Joy Handley, Bonnie Heidel and Scott Laursen			Date: February 8, 2002

**National Forests in the Rocky Mountain Region where species is KNOWN (K) or LIKELY(L)<sup>1</sup> to occur:**

<sup>1</sup> Likely is defined as more likely to occur than not occur on the National Forest or Grassland. This generally can be thought of as having a 50% chance or greater of appearing on NFS lands.

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<u>Colorado NF/NG</u>	Known	Likely	<u>Kansas NF/NG</u>	Known	Likely	<u>Nebraska NF/NG</u>	Known	Likely	<u>South Dakota NF/NG</u>	Known	Likely	<u>Wyoming NF/NG</u>	Known	Likely
Arapaho-Roosevelt NF			Cimmaron NG			Samuel R. McKelvie NF			Black Hills NF			Shoshone NF	X	
White River NF						Halsey NF			Buffalo Gap NG			Bighorn NF	X	
Routt NF						Nebraska NF			Ft. Pierre NG			Black Hills NF		
Grand Mesa, Uncompahgre, Gunnison NF						Ogalala NG						Medicine Bow NF		
San Juan NF												Thunder Basin NG		
Rio Grande NF														
Pike-San Isabel NF														
Comanche NG														

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