

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: **Carex rosea Schkuhr ex Willd. rosy sedge**

SYNONYM: *C. convoluta* Mack. [Van Bruggen 1976, in part; Great Plains Flora Association 1977, in part; Kolstad 1991]

Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	A	e-most SD, e-most NE, and ne KS. Disjunct in ne-most (Crook Co) WY and sw-most SD. [Vouchers at KANU from Doniphan, Douglas, Franklin, Johnson, Leavenworth, Miami, Shawnee, and Wyandotte Cos, KS; Burt, Cass, Otoe, Richardson, Sarpy, Thurston, and Washington Cos, NE; Lincoln, Minnehaha, and Roberts Cos, SD; and Crook Co, WY.] Status: G5; KS S2; WY S1. Confidence in Rank <b>High</b> or <b>Medium</b> or <b>Low</b>	<ul style="list-style-type: none"> <li>• Ball in prep.</li> <li>• Freeman in prep. b</li> <li>• Great Plains Flora Association 1977</li> <li>• Hartman 1997</li> <li>• Kolstad 1991</li> <li>• Rolfsmeier &amp; Wilson 1997</li> <li>• Van Bruggen 1976</li> </ul>
2 Distribution outside R2	C	Broadly distributed throughout the ne US and se-most Canada, from se-most ND, e through central MN to NS; thence s to NC; thence w to ne KS. Disjunct in s-central Man, the Black Hills, e-central TX and s GA.  Confidence in Rank <b>High</b> or <b>Medium</b> or <b>Low</b>	<ul style="list-style-type: none"> <li>• Ball in prep.</li> <li>• Freeman in prep. a</li> <li>• Great Plains Flora Association 1977</li> <li>• Kolstad 1991</li> </ul>
3 Dispersal Capability	B	Evaluator was unable to find information about species' dispersal capability. Species is probably largely wind (or insect?) dispersed and limited by habitat requirements.  Confidence in Rank <b>High</b> or <b>Medium</b> or <b>Low</b>	
4 Abundance in R2	B/D	Species is limited to e-most SD, e-most NE, and ne KS; and nw-most WY and sw-most SD. Where it occurs in e-most part of R2, species appears to be restricted by the scarcity of required habitat [rank B]. Evaluator is unaware of species' abundance in the Black Hills [rank D].  Confidence in Rank <b>High</b> or <b>Medium</b> or <b>Low</b>	
5 Population Trend in R2	D	Evaluator was unable to find any information on population trends within R2. In KS, species is at the periphery of its range, assigned rank S2 because required habitat just enters the state in the ne and e-most part.  Confidence in Rank <b>High</b> or <b>Medium</b> or <b>Low</b>	<ul style="list-style-type: none"> <li>• Freeman in prep. b</li> </ul>
6 Habitat Trend in R2	B/D	Species occurs on rich, calcareous or sandy soil in dry to mesic upland forests. Evaluator has observed species to be locally abundant where it occurs in KS. There, habitat is not particularly common, but appears stable; I presume this is also the case in e SD and e NE [rank B]. Evaluator is unaware of habitat trends in the Black Hills [rank D].  Confidence in Rank <b>High</b> or <b>Medium</b> or <b>Low</b>	<ul style="list-style-type: none"> <li>• Ball in prep.</li> <li>• Freeman in prep. b</li> <li>• Rolfsmeier &amp; Wilson 1997</li> </ul>

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Criteria	Rank	Rationale	Literature Citations
7 Habitat Vulnerability or Modification	B	Species occurs on rich, calcareous or sandy soil in dry to mesic upland forests. In e KS, species is common to locally abundant in high quality maple-basswood and oak-hickory forests. It is less common in disturbed, second-growth forests. I assume this species is rather sensitive to disturbance throughout its range in R2.  Confidence in Rank <b>High</b> or <b>Medium</b> or <b>Low</b>	<ul style="list-style-type: none"> <li>• Ball in prep.</li> <li>• Freeman in prep. b</li> <li>• Rolfsmeier &amp; Wilson 1997</li> </ul>
8 Life History and Demographics	B	Caespitose perennial graminoid. Flowering mid June through early August; fruiting early July through late August. Evaluator was unable to find any other information on species' life history.  Confidence in Rank <b>High</b> or <b>Medium</b> or <b>Low</b>	
Evaluator: Caleb A. Morse, R.L. McGregor Herbarium (KANU), University of Kansas Campus West, 2045 Constant Ave, Lawrence KS 66047			Date: 12/30/01

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

<u>Colorado NF/NG</u>	<u>Known</u>	<u>Likely</u>	<u>Kansas NF/NG</u>	<u>Known</u>	<u>Likely</u>	<u>Nebraska NF/NG</u>	<u>Known</u>	<u>Likely</u>	<u>South Dakota NF/NG</u>	<u>Known</u>	<u>Likely</u>	<u>Wyoming NF/NG</u>	<u>Known</u>	<u>Likely</u>
Arapaho-Roosevelt NF			Cimmaron NG			Samuel R. McKelvie NF			Black Hills NF		X	Shoshone NF		
White River NF						Halsey NF			Buffalo Gap NG			Bighorn NF		
Routt NF						Nebraska NF			Ft. Pierre NG			Black Hills NF	X2	
Grand Mesa, Uncompahgre, Gunnison NF						Ogalala NG						Medicine Bow NF		
San Juan NF												Thunder Basin NG		
Rio Grande NF														
Pawnee NG														
Pike-San Isabel NF														
Comanche NG														

<sup>2</sup> KANU catalog # 210754: WY, Crook Co: ca 4.5 airni SSW Beulah, Black Hills, Dugout Gulch ca 1 mi from confluence with Sand Creek, T52N R60W S19 SW ¼, Elev 3900 ft, 27 Jun 1983, H. Marriott 3681.

<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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### REFERENCES

- Ball, P.W. (in prep.). *Carex* Section *Phaestoglochin*, in Flora of North America Editorial Committee, *Flora of North America North of Mexico*.
- Freeman, C.C. (in prep. a) Checklist of the Vascular Plants of the Grassland Biome of Central North America.
- Freeman, C.C. (in prep. b) The Cyperaceae of Kansas.
- Hartman, R.L. 1997. *Atlas of the Vascular Plants of Wyoming*. Published by the author at Rocky Mountain Herbarium, University of Wyoming. Laramie, Wyoming. [unpaginated]
- Kolstad, O.A. 1991. Cyperaceae, pp. 1059–1113 in Great Plains Flora Association, *Flora of the Great Plains*. University Press of Kansas. Lawrence, Kansas. vii + 1402 pp.
- Rolfsmeier, S.B. and B. Wilson. 1997. Keys and distributional maps for Nebraska Cyperaceae, Part 2: *Carex* and *Scleria*. *Trans. Nebraska Acad. Sci.* 24: 5–26.
- Van Bruggen, T. 1976. *The Vascular Plants of South Dakota*. The Iowa State University Press. Ames, Iowa. xxvi + 538 pp.