ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: ***Carex diandra* Schrank** (Lesser panicled sedge)

Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	**B**	Infrequent to rare in subalpine willow carrs in CO. Rare in Wy where it is known from approx 8 records in the northwest part of the state. Apparently unknown from SD and KS. Uncommon in marshes, seeps and fens primarily in the Sandhills and Loup River drainages in Nebraska. Although described as uncommon in NE, habitat is fairly widespread in the Sandhills region with collection records from 12 counties in the state. Confidence in rank **High** Medium Low	• Kartesz 1999 • Nelson 1974 • Rolfsmeier and Wilson 1997 • Van Bruggen 1976 • Webber and Wittmann 1996 • Wyoming Natural Heritage
2 Distribution outside of R2	**C**	Newfoundland to Alaska and south to New Jersey, Missouri and California. Widespread in boreal wetlands across Canada. Confidence in rank **High** Medium Low	• Kartesz 1999 • Kolstad 1986
3 Dispersal Capacity	**D**	Unable to locate any information about species dispersal capabilities. Species is probably dispersed on water surface and by waterfowl. Confidence in rank High Medium **Low**	
4 Abundance in R2	**B**	Species is rare in CO, WY and infrequent in NE. Unknown from KS and SD. Although species is described as infrequent in NE, habitat is fairly widespread in the Sandhills region. WY populations described as often locally abundant on small areas of appropriate habitat. Confidence in rank High **Medium** Low	• Kartesz 1999 • Rolfsmeier and Wilson 1997 • Wyoming Natural Heritage
5 Population trend in R2	**B**	Populations in WY described as stable to partly declining due to habitat lose. Confidence in rank High Medium **Low**	• Wyoming Natural Heritage
6 Habitat trend in R2	**D**	No information available on habitat trend within R2. Confidence in rank High Medium **Low**	
7 Habitat vulnerability or modification	**D**	No information could be found on habitat vulnerability or modification. Personal observations indicate that NE populations may face future threat from range expansion of purple loosestrife (*Lythrum salicaria*) and reed canarygrass (*Phalaris arundinacea*) into Sandhill wetland systems. Confidence in rank High Medium **Low**	
8 Life History & Demographics	**C**	Cespitose perennial of wetland (primarily calcareous peatland) habitats. Personal observation of NE populations indicate that wetness of preferred habitat discourages grazing by domestic livestock. Confidence in rank High **Medium** Low	• Kolstad 1986

Evaluator: Robert F. Steinauer, 302 Third Street, Steinauer, NE 68441. 402 869-2202. steinauer@alltel.net — Date: April 24, 2002

National Forests in the Rocky Mountain Region where species is KNOWN (K) or LIKELY (L) to occur:

Colorado NF/NG	K	L	Kansas NF/NG	K	L	Nebraska NF/NG	K	L	South Dakota NF/NG	K	L	Wyoming NF/NG	K	L
Arapaho-Roosevelt NF			Cimmaron NG			Samuel R. McKelvie NF	x		Black Hills NF			Shoshone NF	x	
White River NF						Halsey NF			Buffalo Gap NG			Bighorn NF		
Routt NF						Nebraska NF			Ft. Pierre NG			Black Hills NF		
Grand Mesa, Uncompahgre, Gunnison NF						Ogallala NG						Medicine Bow NF	x	
San Juan NF												Thunder Basin NG		
Rio Grande NF														
Pawnee NF														
Pike-San Isabel NF														

Comanche NG														

References

Kartesz, J.T. 1999. *A Synonymized Checklist and Atlas with Biological Attributes for the Vascular Flora of the United States, Canada, and Greenland*. First Edition. In: Kartesz, J.T., and C.A. Meacham. *Synthesis of the North American Flora*, Version 1.0. North Carolina Botanical Garden, Chapel Hill, NC.

Kolstad, O.A. 1986. Cyperaceae pp. 1059-1113. *in* Great Plains Flora Association, *Flora of the Great Plains.* University Press of Kansas. Lawrence, Kansas. 1392 pp.

Nelson, B.E. 1974. *Vascular Plants of the Medicine Bow Range* (4th edition). Jelm Mountain Press. Laramie, Wyoming. 357 pp.

Rolfsmeier, S.B. and B. Wilson. 1997. *Keys and Distributional maps for Nebraska Cyperaceae, Part 2: Carex and Scleria.* Transactions of the Nebraska Academy of Sciences. 24:5-26.

VanBruggen, T. 1976. *The Vascular Plants of South Dakota* (1st edition). Iowa State University Press. Ames, Iowa. 538 pp.

Weber, W.A. and R.C. Wittman . 1996. *Colorado Flora: Eastern Slope* (2nd Addition). University of Colorado. Boulder, Colorado. 524 pp.

Wyoming Natural Diversity Database 2002. Online state species abstract for *Carex diandra*