

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: **Carex sartwellii Dewey Sartwell's sedge**

Note: Evaluator is unaware of the status of varieties *occidentalis* L.H. Bailey and *stenorrhynca* F.J. Herm (and, by extension, var. *sartwellii*). However, no recent treatments of this species (including Catling et al. 1988 and Herman 1970) have included infraspecific taxa.

Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	B	Widely scattered in WY (reported by Hartman from Albany, Fremont, Sheridan, Teton Cos); e through sw ¼ and e ½ of SD and s throughout much of NE. Weber & Wittman (2001a, 2001b) report species as "infrequent" in CO. Reported from Douglas, Larimer, and Ouray Cos, CO (7000-8500 ft) by Harrington and from Boulder Co, CO by Weber (1995). Not known from KS. [Vouchers at KANU from Cuming, Hall, Platte, Richardson, and Rock Cos, NE.] Status: G4; WY S1. Confidence in Rank High or Medium or Low	<ul style="list-style-type: none"> • Freeman in prep. a • Freeman in prep. b • Great Plains Flora Association 1977 • Hartman 1997 • Rolfsmeier & Wilson • Weber 1995 • Weber & Wittman 2001a • Weber & Wittman 2001b
2 Distribution outside R2	C	Widely distributed throughout the ne US and s Canada. Reported by Gleason & Cronquist from "NY and Ont to BC, s to Ind, [nw] MO, and CO." Confidence in Rank High or Medium or Low	<ul style="list-style-type: none"> • Gleason & Cronquist 1981 • Yatskievych 1999
3 Dispersal Capability	B	Evaluator was unable to find information about species' dispersal capability. Species is probably wind dispersed and limited by habitat requirements. Confidence in Rank High or Medium or Low	
4 Abundance in R2	B	Apparently, species is not particularly abundant anywhere it occurs in R2. Reported by Van Bruggen as "frequent in prairie swales in the ne part [of SD] and in the Black Hills" and Steinauer et al. as "occasional to common" in central NE; but reported by Rolfsmeier & Wilson "occasional" in NE and by Weber & Wittman (2001a) "infrequent, montane marshes and fens" and (2001b) "infrequent, montane marshes and bogs." Confidence in Rank High or Medium or Low	<ul style="list-style-type: none"> • Rolfsmeier & Wilson 1997 • Steinauer et al. 1996 • Van Bruggen 1976 • Weber & Wittman 2001a • Weber & Wittman 2001b
5 Population Trend in R2	B	Evaluator was unable to find reliable information about population trends within R2 [but see sect 4]. Confidence in Rank High or Medium or Low	

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Criteria	Rank	Rationale	Literature Citations
6 Habitat Trend in R2	A/B	Species is reported to occur in "wet meadows in the Sandhills [of NE] and along the Platte River" by Rolfsmeier & Wilson, and by Weber & Wittman in "montane marshes and bogs" (2001a) and "montane marshes and fens" (2001b). Observation of herbarium specimen labels at KANU reveals that vouchers have been collected in a variety of wet and wet-mesic habitats, including fens, wet meadows and ditches, frequently in sandy soil. Ostlie et al. report significant loss of wetlands throughout the Great Plains (35% overall for NE and SD, but less in the NE Sandhills), primarily from draining and filling for conversion to croplands, but also from runoff, livestock grazing, fire suppression, and other causes. It is likely that species has lost at least some of its natural habitat in R2 [rank A]. Habitat is probably currently largely stable throughout R2, however, especially in stations in the Rocky Mountains [rank B]. Confidence in Rank High or Medium or Low	<ul style="list-style-type: none"> Ostlie et al. 1997
7 Habitat Vulnerability or Modification	B	Species occurs in a variety of wet and wet-mesic habitats, including wet meadows and ditches, frequently in sandy soil. Such habitats may be vulnerable to draining for better forage by livestock or conversion to croplands [see sect 6]. Whether and to what degree species (and habitat) may be resilient to degradation is unknown to evaluator, however. Confidence in Rank High or Medium or Low	<ul style="list-style-type: none"> Ostlie et al. 1997
8 Life History and Demographics	B	Rhizomatous perennial graminoid. Fruiting late May through early June. Evaluator was unable to find any other information about species' life history. Confidence in Rank High or Medium or Low	
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National Forests in the Rocky Mountain Region where species is KNOWN (K) or LIKELY (L)¹ to occur:

¹ 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>	<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		X	Cimmaron NG			Samuel R. McKelvie NF		X	Black Hills NF		X	Shoshone NF		X
White River NF		X				Halsey NF		X	Buffalo Gap NG		X	Bighorn NF		X
Routt NF		X				Nebraska NF		X	Ft. Pierre NG		X	Black Hills NF		X
Grand Mesa, Uncompahgre, Gunnison NF		X				Ogalala NG		X				Medicine Bow NF		X
San Juan NF												Thunder Basin NG		
Rio Grande NF														
Pawnee NG														
Pike-San Isabel NF		X												
Comanche NG														

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