

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: ***Thelypteris palustris* Schott var. *pubescens* (G. Lawson) Fernald marsh fern**
 SYNONYMS: *Dryopteris thelypteris* (L.) A. Gray var. *pubescens* (G. Lawson) A. Prince ex Weath.

Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	B	Widely scattered from the sw ¼ of SD (reported by Van Bruggen from Bennett & Todd Cos in “extreme s-central part” and the Black Hills), s through n ½ and se ¼ of NE, and the e ½ of KS. Not reported from CO or WY. [Vouchers at KANU from Chautauqua, Dickinson, Doniphan, Douglas, Elk, Ellsworth, Greenwood, Lincoln, McPherson, Montgomery, Ottawa, Washington, Wilson, and Woodson Cos, KS; and Blaine, Boone, Brown, Cherry, Douglas, Holt, Howard, Logan, and Wheeler Cos, NE.] Status: G5T5?; SD S2. Confidence in Rank High or Medium or Low	<ul style="list-style-type: none"> Freeman in prep. Great Plains Flora Association 1977 Van Bruggen 1976
2 Distribution outside R2	C	Range mapped by Smith from throughout the e US and se Canada, from s Man, s through e ND, SD, NE, e KS, e OK and e-most TX; thence e throughout e US and as far n as Newfoundland and s Labrador. Also in Bermuda, Cuba, and Mexico. Confidence in Rank High or Medium or Low	<ul style="list-style-type: none"> Smith 1993
3 Dispersal Capability	B	Evaluator was unable to find any direct information about species’ dispersal capability. <i>Thelypteris</i> has very light spores that are probably easily dispersed over very long distances. Species’ distribution may be largely limited by habitat requirements. Confidence in Rank High or Medium or Low	
4 Abundance in R2	B	Evaluator was unable to find any direct information on species abundance, especially in SD. Although species is widely scattered throughout the region, observation of herbarium specimen labels at KANU reveals that it is usually common to abundant where found. I would guess that species is secure throughout the greater part of its range in R2, especially in central NE and e KS. Confidence in Rank High or Medium or Low	
5 Population Trend in R2	B	Evaluator was unable to find any direct information on population trends within R2. Observation of herbarium specimen labels at KANU reveals that species is locally common where found and, given the wide array of suitable habitats, is probably stable throughout the greater part of its range in R2. Confidence in Rank High or Medium or Low	
6 Habitat Trend in R2	B	Observation of herbarium specimen labels at KANU reveals that species occurs in seeps, spring runs, marshes, floodplains of rivers, sloughs, and roadside ditches, usually reported from sandy soil. To this, Smith adds that species may be found in bogs, swamps, and wet woods. Steinauer et al. report species as “common” in fens in NE Sandhills. Given this broad array of suitable wet-mesic to wet habitats (and especially because species is found in early successional habitats like ditches), it seems likely that there are stable amounts of potential habitat throughout R2. Confidence in Rank High or Medium or Low	<ul style="list-style-type: none"> Smith 1993 Steinauer et al. 1996

ATTACHMENT SS2

Species: ***Thelypteris palustris* Schott var. *pubescens* (G. Lawson) Fernald marsh fern**
 SYNONYMS: *Dryopteris thelypteris* (L.) A. Gray var. *pubescens* (G. Lawson) A. Prince ex Weath.

Criteria	Rank	Rationale	Literature Citations
7 Habitat Vulnerability or Modification	C	Observation of herbarium specimen labels at KANU reveals that species occurs in seeps, spring runs, marshes, floodplains of rivers, sloughs, and roadside ditches, usually reported from sandy soil. To this, Smith adds that species may be found in bogs, swamps, and wet woods. Steinauer et al. report species as "common" in fens in NE Sandhills. Steinauer et al. report on vulnerability of fens to conversion for agricultural uses, but species is apparently rather common in se part of R2 and appears to able to colonize newly disturbed sites, such as roadside ditches. Confidence in Rank High or Medium or Low	<ul style="list-style-type: none"> Smith 1993 Steinauer et al. 1996
8 Life History and Demographics	B	Perennial fern. Evaluator was unable to find any information on life history. Confidence in Rank High or Medium or Low	

Evaluator: Caleb A. Morse, R.L. McGregor Herbarium (KANU), University of Kansas Campus West, 2045 Constant Ave, Lawrence KS 66047
 Date: 01/03/02

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

Colorado NF/NG	Known	Likely	Kansas NF/NG	Known	Likely	Nebraska NF/NG	Known	Likely	South Dakota NF/NG	Known	Likely	Wyoming NF/NG	Known	Likely
Arapaho-Roosevelt NF			Cimmaron NG			Samuel R. McKelvie NF	X2		Black Hills NF			Shoshone NF		
White River NF						Halsey NF		X	Buffalo Gap NG			Bighorn NF		
Routt NF						Nebraska NF		X	Ft. Pierre NG			Black Hills NF		X
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														

² KANU catalog # 116212: NE, Cherry Co: 10 mi S, 12 mi E Nenzel, NE corner of McKelvie NF; T32N R31W S1 S½ NE¼, 14 Sep 1995, S.B. Rolfsmeier 12075.

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.

ATTACHMENT SS2

REFERENCES

- Freeman, C.C. (in prep.) Checklist of the Vascular Plants of the Grassland Biome of Central North America.
- Great Plains Flora Association. 1977. *Atlas of the Flora of the Great Plains*. Iowa State University Press. Ames, Iowa. xii + 600 pp.
- Smith, A.R. 1993. Thelypteridaceae, pp. 206–222 in Flora of North America Editorial Committee, *Flora of North America North of Mexico, Vol. 2: Pteridophytes and Gymnosperms*. Oxford University Press. New York, New York. xvi + 475 pp.
- Steinauer, G. S. Rolfsmeier, and J.P. Hardy. 1966. Inventory and floristics of Sandhills fens in Cherry County, Nebraska. *Trans. Nebraska Acad. Sci.* 23: 9–21.
- Van Bruggen, T. 1976. *The Vascular Plants of South Dakota*. The Iowa State University Press. Ames, Iowa. xxvi + 538 pp.