

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Equisetum fluviatile</i> / Water Horsetail			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	AD	<p>Region 2 represents the southcentral portion of WaterHhorsetail's distribution. It occurs in South Dakota, Nebraska, and Wyoming. In Wyoming, only one population occurs within Region 2 in the Beartooth Mountains of the Shoshone National Forest (Park Co.).</p> <p>It grows on muddy shores of swamps and in shallow water of small ponds at 6400-8150 feet. The Beartooth Mountain population is found on moist, clay-rich, deep soils in a dried pond dominated by <i>Carex rostrata</i>.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Dorn 2001 • Dorn and Dorn 1972 • Fertig 1997 • Fertig 1998 • Fertig 2000a • Fertig 2000b • Jones and Fertig 1992 • Welp et al. 2000 • University of Wyoming 1998
2 Distribution outside R2	C	<p>It is a boreal species that ranges from Labrador to Alaska south to Virginia, Illinois, NW Wyoming, N Idaho, and Washington. In Wyoming, it is known from the Yellowstone Plateau, Jackson Hole, and the Beartooth Mountains in Park and Teton counties.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Fertig 2000 • Hitchcock et al. 1969 • Lellinger 1985 • Nature Serve 2002 • University of Wyoming 1998
3 Dispersal Capability	D	<p>Not known.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • -
4 Abundance in R2	AD	<p>Water Horsetail is known from 2 extant occurrences in Wyoming, most recently observed in 1996, and 12 historic record. It is found to be locally abundant at the recently discovered site in Park County within Region 2, but restricted to less than 5 acres of habitat. Yellowstone National Park population is also small (ca 100 stems) according to Dorn.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> • Fertig 2000 • University of Wyoming 1998
5 Population Trend in R2	D	<p>Not known.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • -

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6 Habitat Trend in R2	D	One historical record (1899) from Jackson Lake was reported as spanning most of the lake, and was probably extirpated when the lake was dammed (Whipple personal communication). Confidence in Rank High	<ul style="list-style-type: none"> -
7 Habitat Vulnerability or Modification	B	Known Wyoming populations are found in Yellowstone and Grand Teton National Parks, offering a high level of protection. The only population within Region 2, however, is in Shoshone National Forest, which is managed for multiple use. Confidence in Rank Medium	<ul style="list-style-type: none"> Fertig 2000 University of Wyoming 1998
8 Life History and Demographics	D	Water Horsetail is a rhizomatous perennial. The stems are all annual. Spores are produced from June to late August. Life history information on this species, including life history stages, population structure, longevity, mortality, and spore/gamete biology, are not available. Confidence in Rank High	<ul style="list-style-type: none"> Fertig 2000 Hitchcock et al. 1969
Initial Evaluator(s): Scott Laursen and Bonnie Heidel			Date: February 22, 2002

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.

ATTACHMENT SS2

<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		
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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ATTACHMENT SS2

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