

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Sparganium eurycarpum</i> / Large Bur-reed			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	AD	<p>Large Bur-reed occurs in the Bear Lodge Mountains in Crook County, Wyoming, on the Black Hills National Forest, and in the eastern plains of Niobrara County. It was recently reported from Albany County. It also occurs in Colorado, Kansas, Nebraska, and South Dakota. Therefore additional state information is necessary in order to determine its Region 2 status.</p> <p>In Wyoming, this species is found in wet meadows and marshes in shallow water and on mud at 4,510 to 4,770 feet. These habitats are patchy and discontinuous on the landscape.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • Dorn 2001 • Fertig 1999, 2000 • Hartman and Nelson 1994, 1995 • University of Wyoming 1998 • USDA Forest Service 2001
2 Distribution outside R2	C	<p>Large Bur-reed is known from British Columbia to Newfoundland, south to Baja California, Utah, Missouri, and Florida.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • Cronquist et al. 1977 • Gleason and Cronquist 1991 • Great Plains Flora Association 1986 • Hitchcock et al. 1969
3 Dispersal Capability	CD	<p>Waterfowl and other birds are known to eat the seeds (achenes), therefore, it may be inferred that there is some animal dispersal across unsuitable habitat.</p> <p>Confidence in rank Medium</p>	<ul style="list-style-type: none"> • Martin et al. 1951
4 Abundance in R2	AD	<p>Large Bur-reed is known from 2 extant and one historical occurrence in Wyoming. One extant occurrence is on the Black Hills National Forest. Census data are lacking. This species is ranked "S1" in Wyoming and "S2?" in Colorado. It also occurs in Kansas, Nebraska, and South Dakota but is not tracked.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • Dorn 2001 • Fertig 1999, 2000 • Hartman and Nelson 1994, 1995 • NatureServe 2002 • University of Wyoming 1998 • USDA Forest Service 2001 • WYNDD 2002
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	Not known. Confidence in rank High	• -
7 Habitat Vulnerability or Modification	BD	Large Bur-reed may be impacted by grazing, drainage and other agricultural development of wetland sites, weed invasion, and water pollution. It occurs on lands managed for multiple use by the Black Hills National Forest. Confidence in rank Low	<ul style="list-style-type: none"> • Fertig 2000 • WYNDD 2002
8 Life History and Demographics	D	Large Bur-reed is a perennial forb that grows as an emergent in shallow water. Flowering and fruiting occur from June through August. Additional information on the species, including life history stages, population structure, longevity, mortality, and seed biology, are not available. Confidence in rank High	<ul style="list-style-type: none"> • Cronquist et al. 1977 • Fertig 2000 • Gleason and Cronquist 1991 • Great Plains Flora Association 1986 • Hitchcock et al. 1969
Initial Evaluator(s): Joy Handley, Bonnie Heidel and Scott Laursen			Date: May 21, 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.

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<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		
White River NF						Halsey NF			Buffalo Gap NG			Bighorn NF		
Routt NF						Nebraska NF			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														
Pike-San Isabel NF														
Comanche NG														

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