

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Sparganium minimum</i> / Small Bur-reed (<i>S. natans</i>)			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	AD	<p>Small Bur-reed occurs in the Wind River, Absaroka, and Medicine Bow ranges in Fremont, Park, and Carbon counties, Wyoming, on the Shoshone and Medicine Bow national forests. It also occurs in Colorado, therefore, additional state information is necessary in order to determine its status in Region 2.</p> <p>Rangewide, this species is found in the shallow water or rooted in wet mud of montane lakes. Wyoming populations occur in shallow pools, bogs, and fens rooted in mud and submerged or emergent at 6,590 to 9,000 feet. These habitats are patchy in the state and discontinuous on the landscape.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • Dorn 2001 • Fertig 1998, 2000 • Fertig and Jones 1992 • Gleason and Cronquist 1991 • Harrington 1954 • Hitchcock et al. 1969 • Nelson 1984 • University of Wyoming 1998 • USDA Forest Service 2001
2 Distribution outside R2	C	<p>Small Bur-reed is circumboreal. In North America it is known south to Oregon, New Mexico, Indiana, and Pennsylvania. In Wyoming, it is known from outside Region 2 on the Yellowstone Plateau and in Jackson Hole in Teton County.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • Dorn 2001 • Fertig 2000 • Gleason and Cronquist 1991 • Hitchcock et al. 1969 • Porsild and Cody 1980 • University of Wyoming 1998
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 High</p>	<ul style="list-style-type: none"> • Martin et al. 1951
4 Abundance in R2	AD	<p>Small Bur-reed is known from 4 extant and 2 historic occurrences in Wyoming. One historical record and one extant population are on the Shoshone National Forest and another extant population is on the Medicine Bow National Forest. The two extant populations on Region 2 lands have been discovered or relocated since 1992 (most recently in 1996). Census data are lacking. This species is ranked "S1" in Wyoming. It also occurs in Colorado but is not tracked.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • Fertig 1998, 2000 • Fertig and Jones 1992 • NatureServe 2002 • Nelson 1984 • 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	Small Bur-reed may be threatened by water pollution or diversion. Elsewhere, it occurs in the Swamp Lake Special Botanical Area and on lands managed for multiple use by the Medicine Bow and Shoshone national forests. It also occurs in Yellowstone and Grand Teton national parks. Confidence in rank Low	<ul style="list-style-type: none"> • Fertig 1998, 2000 • Fertig and Jones 1992 • Nelson 1984 • Porter 1963 • University of Wyoming 1998 • WYNDD 2002
8 Life History and Demographics	D	Small Bur-reed is a perennial, aquatic forb. Flowering and fruiting occur from July 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"> • Fertig 2000 • Gleason and Cronquist 1991 • Hitchcock et al. 1969 • Porsild and Cody 1980
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	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	X	
San Juan NF												Thunder Basin NG		
Rio Grande NF														
Pike-San Isabel NF														
Comanche NG														

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