

ATTACHMENT SS2

Species: *Botrychium pinnatum* St. John/ Northern moonwort / BOPI Global rank: G4?
 [Synonyms: *B. boreale* (Fries) Milde var. *obtusilobum* auct. Non (Rupr.) Broun; *B. boreale* (Fries) Milde ssp. *obtusilobum* auct non (Rupr) Clausen]

Criteria	Rank	Rationale	Literature Citations
6 Habitat Trend in R2	D	Habitat: On grassy slopes, streambanks, and in mossy woods, in moist to wet soil; 0-2500m elevation No information on habitat trend Confidence in Rank High	<ul style="list-style-type: none"> Flora of N. America Vol 2
7 Habitat Vulnerability or Modification	D	Habitat vulnerable to elk grazing; construction of new winter hut (Summit Hut Assoc) at one location Insufficient information to make determination Confidence in Rank High	<ul style="list-style-type: none"> CO NHP files
8 Life History and Demographics	D	Insufficient information on life history and demographics to infer impacts; the <i>Botrychium</i> style of life (long underground portion of the lifespan) is supportive of a stable population that may not readily appear as such to the aboveground observer. However, <i>Botrychium</i> interaction with mycorrhizal fungi, their requirements for dark, moist soil conditions, etc are fairly restrictive conditions that must be met in a stable mode for the species to thrive. Confidence in Rank High	<ul style="list-style-type: none"> CO NHP files
Initial Evaluator(s): Beth A. Burkhardt, Botanist – Species Conservation Project/Black Hills NF			Date: 09/26/2002

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

<u>Colorado NF/NG</u>		<u>Kansas NF/NG</u>		<u>Nebraska NF/NG</u>		<u>South Dakota NF/NG</u>		<u>Wyoming NF/NG</u>	
Known	Likely	Known	Likely	Known	Likely	Known	Likely	Known	Likely
Arapaho-Roosevelt NF		Cimmaron NG		Samuel R.McKelvie NF		Black Hills NF		Shoshone NF	
White River NF	K			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	K							Thunder Basin NG	
Rio Grande NF									
Pike-San Isabel NF									
Comanche NG									

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.