

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Pellaea breweri</i> / Brewer's Cliff-brake			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	B	<p>Region 2 harbors the southeastern limits of Brewer's Cliff-brake's distribution. It is found in west and central Wyoming, including Medicine Bow National Forest, Shoshone National Forest, and Bighorn National Forest. In Colorado, it is known on the White River National Forest.</p> <p>In Wyoming, Brewer's Cliff-brake is found between 5,400 and 10,300 feet in elevation on shaded limestone and shale in rocky, open areas, coniferous forests (<i>Pseudotsuga menziesii</i>, <i>Pinus flexilis</i>), and stream margins. Such habitats represent a variety of substrates and vegetation types that are widespread though discontinuous on the landscape.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • Dorn 2001 • Hitchcock et al. 1969 • USDA Forest Service R2 2001 • University of Wyoming 1998
2 Distribution outside R2	C	<p>Outside of Region 2, Brewer's Cliff-brake is found from Washington to California and east from southwestern Montana to Wyoming, Nevada, and Utah. Within Wyoming this species also occurs to the west of the Region 2 border.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • Flora of North America Editorial Committee 1993 • Hitchcock et al. 1969
3 Dispersal Capability	D	<p>Its spores readily disperse across unsuitable habitat.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • -
4 Abundance in R2	BC	<p>Brewer's Cliff-brake is known from at least 15 occurrences on lands administered by Region 2 in Wyoming, the majority on Shoshone NF. It is also known from over 30 occurrences outside of Region 2 boundaries. Census data are lacking. It is ranked "S3" in Wyoming and not tracked. It is ranked "S2" in Colorado.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • NatureServe 2002 • WYNDD 2002
5 Population Trend in R2	D	<p>Unknown.</p> <p>Confidence in rank High</p>	<ul style="list-style-type: none"> • -

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Criteria	Rank	Rationale	Literature Citations
6 Habitat Trend in R2	D	Unknown. Confidence in rank High	• -
7 Habitat Vulnerability or Modification	DB	Threats are not known. The habitats of Brewer's Cliff-brake represent a variety of substrates and a geographic breadth. Confidence in rank High	<ul style="list-style-type: none"> • Flora of North America Editorial Committee 1993 • Hitchcock et al. 1969 • University of Wyoming 1998
8 Life History and Demographics	D	Brewer's Cliff-brake is a rhizomatous fern. Spores are produced in the summer and fall. Additional information on the species, including life history stages, population structure, longevity, mortality, and sporophyte biology, are not available. Confidence in rank High	<ul style="list-style-type: none"> • Flora of North America Editorial Committee 1993 • Hitchcock et al. 1969
Initial Evaluator(s): Joy Handley, Bonnie Heidel and Scott Laursen			Date: June 5, 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	X					Halsey NF			Buffalo Gap NG			Bighorn NF	X	
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														

Literature cited

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