

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: *Dryopteris expansa* / Spreading Wood Fern

Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	A	<p>Region 2 represents the southcentral portion of Spreading Wood Fern distribution. In Wyoming, this species is restricted to the Absaroka Range in Shoshone National Forest, in Park County. In Colorado, it is present on the Arapaho-Roosevelt National Forest.</p> <p>This species inhabits moist woods and rocky soils. It is often found in wet soils under or associated with conifers (Gleason 1991). Wyoming populations occur at 6800-7800 feet.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Colorado Native Plant Society 1997 • Dorn 1977 • Dorn 2001 • Fertig 1998 • O’Dea and Fertig 2001 • University of Wyoming 1998
2 Distribution outside R2	C	<p>Rangewide, <i>Dryopteris expansa</i> occurs in 4 main areas: NW North America from Alaska to Alberta and south to N California and Colorado; Minnesota to Greenland and south to S Quebec; Scandinavia to central Europe; and Manchuria, Kamchatka, and Japan (Carlson and Wagner 1982). In Wyoming it is also known outside Region 2 in the Yellowstone Plateau and Teton Range in Park and Teton counties.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Carlson et al. 1982 • O’Dea and Fertig 2001 • Gleason and Cronquist 1991 • Lellinger 1985 • NatureServe 2002
3 Dispersal Capability	C	<p>As a spore-producing seedless vascular plant, Spreading Wood Fern most likely disperses quite easily across unsuitable habitat.</p> <p>Confidence in Rank LOW</p>	<ul style="list-style-type: none"> • -
4 Abundance in R2	A	<p>Spreading wood fern is known from 3 extant occurrences in Wyoming, the most recent observed in 1997. Populations are typically reported as "rare". One colony in Yellowstone National Park had fewer than 100 plants in 1997. Only one population is located in Region 2 on Shoshone National Forest (last observed in 1980).</p> <p>It is ranked “S1” in Wyoming and Colorado.</p> <p>Confidence in Rank medium</p>	<ul style="list-style-type: none"> • O’Dea and Fertig 2001 • WYNDD 2001
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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Criteria	Rank	Rationale	Literature Citations
6 Habitat Trend in R2	DB	Not known. Protected habitat is presumed stable. Confidence in Rank LOW	<ul style="list-style-type: none"> O'Dea and Fertig 2001
7 Habitat Vulnerability or Modification	CB	Habitat vulnerability is low, except that these populations cover such small areas..t known. Populations are protected in Grand Teton and Yellowstone National Parks. The third population is in Shoshone National Forest on the North Absaroka Wilderness Area. Confidence in Rank medium	<ul style="list-style-type: none"> Fertig 1998 O'Dea and Fertig 2001
8 Life History and Demographics	D	Spreading woodfern is a perennial with clumped, semi-evergreen leaves from an ascending or suberect rhizome. Life history information on this species, including life history stages, population structure, longevity, mortality, pollination biology and spore/gamete biology, are not available. Confidence in Rank High	<ul style="list-style-type: none"> Lellinger 1985 O'Dea and Fertig 2001
Initial Evaluator(s): Bonnie Heidel and Scott Laursen			Date: February 20, 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	X		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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