

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Polystichum lonchitis</i> (L.) Roth / northern hollyfern / POLO4 (Scientific Name/Common Name/National Code for Plants – USDA PLANTS)			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	B	n CO, se & nw WY, Black Hills of SD & WY (also w WY). Confidence in Rank Medium	<ul style="list-style-type: none"> Harrington 1964, Weber & Wittmann 2001, Dorn & Dorn 1972, GPFA 1986, RM 2001.
2 Distribution outside R2	C	BC & se AK east to Alberta and south to n CA, NV, UT, CO. Also Gt. Lakes region and Maritimes. s Greenland and Europe. Confidence in Rank High	<ul style="list-style-type: none"> FNA 1993, Hitchcock & Cronquist 1973.
3 Dispersal Capability	B	Wind dispersed spores. Confidence in Rank Medium	<ul style="list-style-type: none">
4 Abundance in R2	B	CO: "Infrequent...alpine & subalpine." (Natural Heritage rank of S?) WY: 5 collections, but widespread (Natural Heritage rank of S2) SD: 5 extant occurrences in northern Black Hills (plus 1 in WY BH's). Confidence in Rank Medium	<ul style="list-style-type: none"> Weber 1987, Weber & Wittman 2001, NatureServe 2001, Dorn & Dorn 1972, Marriott 1986, SDNHD 2001, RM 2001.
5 Population Trend in R2	D	 Confidence in Rank Medium	<ul style="list-style-type: none">
6 Habitat Trend in R2	B	Inhabits moist, typically shaded, rock crevices, bases of boulders, talus slopes, (often limestone), occasionally in coniferous woods, midmontane to alpine. Black Hills occurrences are on moist talus or rich, N-facing, lower slopes in forested ravines. Apparently occupies a very small fraction of the total general habitat. Trends & vulnerability more appropriately considered by occupied sites rather than general habitat. Confidence in Rank Medium	<ul style="list-style-type: none"> FNA 1993, Hitchcock & Cronquist 1973, Dorn & Dorn 1972, Harrington 1964.
7 Habitat Vulnerability or Modification	B	ditto - only small portion of habitat occupied. These particular sites might be more threatened than general habitat. Black Hills occurrences are mostly on National Forest land. Four of five are in or near designated "special botanical areas." Confidence in Rank Medium	<ul style="list-style-type: none"> SDNHD 2001.

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8 Life History and Demographics	D	Perennial. Common outcrossing. Confidence in Rank Medium	<ul style="list-style-type: none"> FNA 1993.
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National Forests in the Rocky Mountain Region where species is KNOWN (K) or LIKELY (L)¹ to occur:

Species Name: <i>Polystichum lonchitis</i>											
<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	Known	Likely
	?	Cimarron NG		Samuel R. McKelvie NF		Black Hills NF	X	Shoshone NF			X
	?			Halsey NF		Buffalo Gap NG		Bighorn NF			X
	?			Nebraska NF		Ft. Pierre NG		Black Hills NF		X	
				Ogalala NG				Medicine Bow NF			X
								Thunder Basin NG			
	?										

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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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