

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: *Arabis williamsii* var. *saximontana* (synonym: *Arabis pendulocarpa* var. *saximontana*; *Boechea williamsii* var. *saximontana*)

NOTE: There are two varieties of *Arabis williamsii* present in Wyoming. They are treated in separate evaluations.

Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	B	<p>This rockcress is a regional endemic with the eastern portion of its known distribution present in Region 2. It is found in seven counties of northwest and west central Wyoming (Dorn 2001) in the Absaroka Mountains, Wind River Range, and east flank Wyoming Range, including Shoshone National Forest.</p> <p>NOTE: It is recognized by Rollins (1993) and Dorn (2001) but populations show mixed traits suggesting hybridization with the more common <i>A. holboellii</i> var. <i>pendulocarpa</i> (Rollins 1993). Its global rank is G3QT2T3Q.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> • Dorn 2001 • Marriott 1986 • Rollins 1993 • University of Wyoming 1998
2 Distribution outside R2	B	<p>This rockcress is a regional endemic known from a limited 3-state area of Idaho, Montana and Wyoming.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> • Rollins 1993 • Dorn 2001
3 Dispersal Capability	D	<p>Not known.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • -
4 Abundance in R2	B	<p>It is reported from at least 18 collection records, at least half of them in Shoshone National Forest. It is ranked S2 in Wyoming and is not tracked based on the number of records, distribution, and lack of threats. More detailed information on population numbers and aerial extent are not available.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • Wyoming Natural Diversity Database 2002
5 Population Trend in R2	BD	<p>Probably stable.</p> <p>Confidence in Rank High</p>	<ul style="list-style-type: none"> • -
6 Habitat Trend in R2	BD	<p>Probably stable.</p> <p>Confidence in Rank Medium</p>	<ul style="list-style-type: none"> • -

ATTACHMENT SS2

Species: *Arabis williamsii* var. *saximontana* (synonym: *Arabis pendulocarpa* var. *saximontana*; *Boechnera williamsii* var. *saximontana*)

NOTE: There are two varieties of *Arabis williamsii* present in Wyoming. They are treated in separate evaluations.

Criteria	Rank	Rationale	Literature Citations
7 Habitat Vulnerability or Modification	CD	Probably resilient. Confidence in Rank Medium	• -
8 Life History and Demographics	D	This rockcress is a caespitose herbaceous perennial with 1-several basal rosettes of leaves. Each produces 1 flowering stem per rosette and flowers once. Immature plants are represented by a single rosette of basal leaves. Additional information on the species, including population structure, longevity, mortality, pollination biology and seed biology, are not available. Confidence in Rank High	• -
Initial Evaluator(s): Bonnie Heidel			Date: 7 December 2001

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
		Cimmaron NG		Samuel R. McKelvie NF		Black Hills NF		Shoshone NF	X
				Halsey NF		Buffalo Gap NG		Bighorn NF	
				Nebraska NF		Ft. Pierre NG		Black Hills NF	
				Ogalala NG				Medicine Bow NF	
								Thunder Basin 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.

ATTACHMENT SS2

Literature cited

Dorn, R.D. 2001. Vascular Plants of Wyoming, 3rd ed. Mountain West Publ., Cheyenne.

Rollins, R.C. 1981. Studies on *Arabis* (Cruciferae) of western North America. Syst. Bot. 6:55-64.

Rollins, R.C. 1993. The Cruciferae of Continental North America. Stanford University Press, Stanford, CA.

Scott, R.W. 1997. The Alpine Flora of the Rocky Mountains. Volume 1 The Middle Rockies. University of Utah Press, Salt Lake City, UT.

Snow, N. 1994. The vascular flora of southeastern Yellowstone National Park and the headwaters region of the Yellowstone River, Wyoming. Wasmann J. Biol. 50(1-2): 52-95.

University of Wyoming – Rocky Mountain Herbarium. 1998. Atlas of the Flora of Wyoming. Posted electronically through 1998 at: <http://www.esb.utexas.edu/tchumley/wyomap/> and unposted accession information at the Rocky Mountain Herbarium through 2001.

Wyoming Natural Diversity Database. 2002. Ongoing documentation of sensitive species distribution, biology, status, and references for the state of Wyoming. University of Wyoming, Laramie.