

ATTACHMENT SS2

REGION 2 SENSITIVE SPECIES EVALUATION FORM

Species: <i>Oreohelix pygmaea</i> (Pilsbry 1913) – Pygmy Mountainsnail			
Criteria	Rank	Rationale	Literature Citations
1 Distribution within R2	A	This species is known only from Wyoming. Chak and McDonald reported records of <i>Oreohelix pygmaea</i> from two sites, Tensleep Canyon and Shell Canyon, WY. Confidence in Rank : Medium	<ul style="list-style-type: none"> • NatureServe2009 • Chak, Tin Chi Solomon and David B. McDonald. The genetic structure of <i>Oreohelix</i> land snails in northeastern Wyoming and adjacent South Dakota. Unpubl. Report.
2 Distribution outside R2	A	Distribution limited to Wyoming. NatureServe rank G1. Confidence in Rank: High	<ul style="list-style-type: none"> • NatureServe 2009
3 Dispersal Capability	B	No specific information is available on dispersal distances. Terrestrial gastropods are quite sedentary. Long-distance dispersal is passive, transported by animals or humans. Snails in different watersheds may be partially isolated. Confidence in Rank: Medium	<ul style="list-style-type: none"> • NatureServe 2009 • Weaver et al. 2006
4 Abundance in R2	B	Population numbers in the Big Horn Mountains are unknown. The few known records are reflected in the G1 ranking. Confidence in Rank : LOW	<ul style="list-style-type: none"> • NatureServe 2009
5 Population Trend in R2	D	Population trends are unknown. However, land snails require moisture for respiration and often hatching of eggs, and therefore may be negatively impacted by human activities or natural processes, such as timber harvest and fire, that create drier microsites and/or movement barriers. Confidence in Rank: High	<ul style="list-style-type: none"> • Anderson 2005 • Frest and Johannes 2002

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Criteria	Rank	Rationale	Literature Citations
6 Habitat Trend in R2	A	There is no information available about specific habitat requirements of this species or its response to management activities. Assuming its requirements are similar to other land snails such as the Cooper's mountainsnail, forest management activities such as timber harvest, prescribed burning, road construction and livestock grazing are likely affecting habitat conditions by reducing ground litter, compacting soil, and drying out riparian areas. Confidence in Rank: LOW	<ul style="list-style-type: none"> Anderson 2005.
7 Habitat Vulnerability or Modification	B	Because they have low dispersal capability and are sensitive to moisture and temperature conditions, land snails are vulnerable to habitat alteration (Anderson 2005). Confidence in Rank: LOW	<ul style="list-style-type: none">
8 Life History and Demographics	B	Rates of reproduction and survival are not known. Adults may mature in 2-3 years. Breeding is annual, though it is possible that multiple young could be produced during wet years. Ability to recover from disturbance events may be limited by dispersal abilities, which may be dependant on passive dispersal agents (see criteria 3). Confidence in Rank: Medium	<ul style="list-style-type: none"> Anderson 2005
Evaluator(s): Nancy Warren			Date: 3/13/2009

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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Species Name: <i>Oreohelix pygmaea</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
Arapaho-Roosevelt NF		Cimarron NG		Samuel R.McKelvie NF		Black Hills NF		Shoshone NF			
White River NF				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			
San Juan NF								Thunder Basin NG			
Rio Grande NF											
Pike-San Isabel NF											
Comanche NG											
Pawnee NG											