

## **Ecological site R043BY178WY Wetland High Mountains**

Accessed: 05/12/2025

## Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

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Date	03/16/2007
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Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

## Indicators

•••	Tailouto 10				
1.	Number and extent of rills: Rare to nonexistent.				
2.	Presence of water flow patterns: Water flow patterns sometimes evident in floodplain zone where this site occurs.				
3.	Number and height of erosional pedestals or terracettes: Rare to nonexistent.				
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground is typically less than 1%.				
5.	Number of gullies and erosion associated with gullies: Active gullies should not be present.				
6.	Extent of wind scoured, blowouts and/or depositional areas: Minimal to nonexistent.				

7. Amount of litter movement (describe size and distance expected to travel): Herbaceous litter exhibits slight

movement only associated with water flow patterns.

erages - most sites will show a range of	3. Soil surface (top few mm) resistance to erosion (stability values a values): Soil Stability Index ratings are typically 6.0
•	<ol> <li>Soil surface structure and SOM content (include type of structure surface variable, typically an A-horizon that has colors with a chroma of horizon is overlain or replaced by an O-horizon with 40-60% OM.</li> </ol>
% grasses, 15% forbs, and 0-15% shrubs. Ites, results in no runoff for this site until	Dense plant canopy (>95%) and litter, despite slow to moderate infiltration are saturated. Basal cover is typically 20-30% for this site and effective proportion of distribution on infiltration and runoff: Plant community consists of Dense plant canopy (>95%) and litter, despite slow to moderate infiltrations are saturated. Basal cover is typically 20-30% for this site and effective proportion of distribution on infiltration and runoff: Plant community consists of Dense plant canopy (>95%) and litter, despite slow to moderate infiltration and runoff:
oil profile features which may be	Presence and thickness of compaction layer (usually none; describing mistaken for compaction on this site): No compaction layer exists.
	2. Functional/Structural Groups (list in order of descending domina foliar cover using symbols: >>, >, = to indicate much greater than
	Dominant:
	Sub-dominant:
	Other:
perennial forbs=perennial shrubs>cool	Additional: mid-size, cool season bunchgrasses>>rhizomatous grass-season rhizomatous grasses
	Amount of plant mortality and decadence (include which function decadence): Minimal decadence, typically associated with shrub com
• •	4. Average percent litter cover (%) and depth (in): Litter ranges from (including beneath the plant canopy) from 90-100% expected. Herback Woody litter can be up to a couple inches (4-6 cm).
-	5. Expected annual annual-production (this is TOTAL above-ground production): English: 5500-7500 lb/ac (6000 lb/ac average); Metric: 6
List species which BOTH charac	production): English: 5500-7500 lb/ac (6000 lb/ac average); Metric: 6  6. Potential invasive (including noxious) species (native and non-na degraded states and have the potential to become a dominant or their future establishment and growth is not actively controlled by

become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not

nvasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site: Bare ground greater than 15% and presence of noxious weeds are the most common indicator of a threshold being crossed. Baltic rush and slim sedge are common increasers. Canada thistle is a common invasive species.  Perennial plant reproductive capability: All species are capable of reproducing, except in drought years.							