

Ecological site R008XY004ID South Slope Loamy 12-16 PZ

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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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Approved by	Kendra Moseley	
Approval date		
Composition (Indicators 10 and 12) based on	Annual Production	

Indicators

1.	Number and extent of rills: Rills can occur on this site. If rills are present they are likely to occur immediately following
	wildfire or high intensity convection storms.

- 2. **Presence of water flow patterns:** Water-flow patterns can occur on this site. When they occur, they are most likely to occur immediately following a wildfire or during high intensity convection storms. They are short and disrupted by cool season grasses and are not extensive.
- Number and height of erosional pedestals or terracettes: Both can occur but neither is extensive. In areas where
 flow patterns and/or rills are present, a few pedestals may be expected. Terracettes can occur up slope from
 bunchgrasses.
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): On sites in mid-seral status bare ground may range from 5-10 percent.
- 5. Number of gullies and erosion associated with gullies: Gullies do not occur on this site.

6.	Extent of wind scoured, blowouts and/or depositional areas: These are usually not present. Immediately following wildfire some soil movement may occur on lighter textured soils.
7.	Amount of litter movement (describe size and distance expected to travel): Fine litter in the interspaces may move up to 2 feet following a significant run-off event. Coarse litter generally does not move.
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Values should range from 3 to 5.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): The A or A1 horizon is typically very dark brown and 0 to 4 inches thick. Structure is moderately fine granular and soil organic matter ranges from 2 to 3 percent.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Bunchgrasses, especially deep-rooted perennials, slow run-off and increase infiltration. Perennial grasses produce 70-80 percent of the total production, forbs 15-25 percent, and shrubs 1 to 10 percent.
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): Is not present.
12.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
	Dominant: cool season deep-rooted perennial bunchgrasses
	Sub-dominant: forbs
	Other: shallow rooted-grasses
	Additional: tall shrubs
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Bluebunch wheatgrass can become decadent in the absence of normal fire frequency and ungulate grazing. This is most noticeable in dead centers of the bunches.
14.	Average percent litter cover (%) and depth (in): Additional litter cover data is needed but is expected to be 15-20 percent to a depth of 0.1 inches. Under mature shrubs litter is >0.5 inches deep and is 90-100 percent ground cover.

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degraded states and have the potential to become a dominant or co-dominant species on the ecological site their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference store the ecological site: Includes cheatgrass, bulbous bluegrass, rush skeletonweed, musk and scotch thistle, diffusion to the ecological site of the ecological site.							
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Perennial plant reproductive capability: All functional groups have the potential to reproduce in most years.							