

Ecological site R011XY018ID South Slope Granitic 8-12 PZ ARTRT/PSSPS

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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 on slopes greater than
	20 percent and immediately following wildfire. Coarse surface gravels limit rill development.

- 2. **Presence of water flow patterns:** water-flow patterns can occur on this site. When they occur they are short and disrupted by cool season grasses and tall shrubs and are not extensive. Water infiltration is generally rapid for the site.
- 3. **Number and height of erosional pedestals or terracettes:** pedestals are rare on this site. Terracettes are common. Significant accumulation of coarse surface fragments develops on the uphill side of larger perennial grasses and shrubs. This accumulation is from concentrated flow and hoof/ foot traffic. Terracettes are a natural occurrence on the site.
- 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): is expected to be 50-75% but more data is needed. This site is naturally unstable due to coarse surface fragments.
- 5. Number of gullies and erosion associated with gullies: no not occur on this site.

6.	Extent of wind scoured, blowouts and/or depositional areas: usually not present due to coarse textured gravelly soil
	surface.
7.	Amount of litter movement (describe size and distance expected to travel): fine litter in the interspaces may move up to 3 feet following a significant run-off event. It generally moves onto terracettes. Coarse litter generally does not move except on the steeper slopes. Litter is also moved mechanically by hoof/foot traffic.
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 4 to 6 but needs to be tested.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): structure ranges from weak very fine granular to moderate medium platy. Soil organic matter (SOM) ranges from 0.5 to 3 percent. The A or A1 horizon is typically 2 to 10 inches thick.
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. Tall shrubs accumulate snow in the interspaces.
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): 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: tall shrubs
	Other: perennial forbs
	Additional: shallow rooted perennial bunchgrasses
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): basin big sagebrush and bitterbrush will become decadent in the absence of fire and ungulate grazing. Grass and forb mortality will occur as tall shrubs increase. Some grasses and forbs are susceptible to hoof/foot traffic.
14.	Average percent litter cover (%) and depth (in): additional litter cover data is needed but is expected to be 5-10 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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