

Ecological site R009XY009ID North Slope Schist 16-22 PZ FEID-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

	wildfire. Rills are most likely to occur on soils with surface textures of silt loam and clay loam.
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 are not extensive.
3.	Number and height of erosional pedestals or terracettes: Both can occur. Neither is extensive. In areas where flow patterns and/or rills are present, a few pedestals may be expected. Terracettes also occur on the site uphill from tall

1. Number and extent of rills: Rills can occur on this site. If rills are present they are likely to occur immediately following

4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): data is not available. On areas in mid-seral status bare ground may range from 15 to 25 percent.

shrub bases and large bunchgrasses. Contour terracettes can form from livestock grazing on steeper slopes.

5. Number of gullies and erosion associated with gullies: None.

6.	Extent of wind scoured, blowouts and/or depositional areas: 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 3 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 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): The A or A1 horizon is typically 3 to 7 inches thick and is very dark brown, moist. Structure ranges from moderate to strong fine granular. Soil organic matter (SOM) ranges from 2 to 6 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.
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): Idaho fescue and bluebunch wheatgrass can become decadent in the absence of normal fire frequency and ungulate grazing. This is most noticeable in the dead centers of plants.
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.
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): Is 1350 pounds per acre (1512 kilograms per hectare) in a year with normal temperatures and precipitation.

	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 state
	for the ecological site: Includes cheatgrass, bulbous bluegrass, Kentucky bluegrass, rush skeletonweed, musk and scotch thistle, diffuse and spotted knapweed, leafy spurge, dalmation toadflax, and yellow star thistle.
7. I	Perennial plant reproductive capability: All functional groups have the potential to reproduce in most years.