

Ecological site R025XY040ID VERY SHALLOW STONY 8-12

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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.

Author(s)/participant(s)	
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Date	08/07/2007
Approved by	Kendra Moseley
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

n	dicators
1.	Number and extent of rills: Rills rarely occur on this site due to the extremely cobbly to very stony surface soils.
2.	Presence of water flow patterns: Water-flow patterns rarely occur on this site. When they do occur, they are short and disrupted by cool season grasses, shrubs and surface stones. They are not extensive.
3.	Number and height of erosional pedestals or terracettes: Pedestals and/or terracettes are common on the site, especially where flow patterns are present and the surface soils have a high clay content.
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare Ground ranges from 20-30 percent.

6. Extent of wind scoured, blowouts and/or depositional areas: Wind-scoured, blowouts, and/or deposition areas are

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

	usually not present in the HCPC.			
7.	Amount of litter movement (describe size and distance expected to travel): Fine litter in the interspaces typically moves less than one foot due to relatively flat slopes and low rainfall. 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 4-6 but need to be tested.			
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): The surface horizon is typically 2 to 5 inches thick. Structure typically includes weak, moderate, or strong thin or medium platy, weak very fine and moderate fine granular and moderate fine subangular blocky. Soil organic matter (SOM) range from 1 to 2 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 runoff and increase infiltration. Medium height shrubs accumulate some 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): Compaction layer 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>> medium shrubs.			
	Sub-dominant: Perennial forbs>shallow rooted bunchgrasses.			
	Other:			
	Additional:			
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Very little mortality or decadence is expected on this site. Mortality of shallow rooted grasses may occur a a result of extended periods of drought.			
14.	Average percent litter cover (%) and depth (in): Additional data is needed but is expected to be low and at a shallow depth.			
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): Annual Production is 350 pounds per acre (392 Kg/ha)in a year with normal precipitation and			

temperatures. Perennial grasses produce 40-50 percent of the total production, forbs 10-20 percent and shrubs 25-35

percent.

16.	Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize
	degraded states and have the potential to become a dominant or co-dominant species on the ecological site if
	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: Invasive Plants include cheatgrass, bulbous bluegrass and halogeton.

17.	Perennial plant reproductive capability:	All functional groups have the potential to reproduce in normal and favorable
	vears.	