

## Ecological site R070AY005NM Shallow Sandstone

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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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Date	04/26/2005	
Approved by	Kendra Moseley	
Approval date		
Composition (Indicators 10 and 12) based on	Annual Production	

## Indicators

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1.	Number and extent of rills: Minor amount of rilling. Some on steeper slopes.
2.	<b>Presence of water flow patterns:</b> Some evidence of water flow patterns. Flow patterns one meter caused by overland flow during extreme events.
3.	Number and height of erosional pedestals or terracettes: Rarely occurring on deeper level site but more evident or steeper shallow less productive parts of site.
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): 30 to 35 percent Bare Ground, 20 to 25 percent Surface Cobble and Stone, Gravel 1 to 5 percent.

6. Extent of wind scoured, blowouts and/or depositional areas: None

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

<b>7</b> .	. Amount of litter movement (describe size and distance expected to travel): Very little litter movement one mete Litter movement mostly on shallower more steep and less productive sites.				
3.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Stability class rating anticipated to be 2-3 inch interspaces at soil surface. These values need verification at reference site.				
١.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): (Travessilla) A1-0 to 4 inches; light brownish gray (10YR 6/2) sandy loam, dark grayish brown (10 YR 4/2) when moist; weak fine granular structure; slightly hard when dry, very friable when moist; non-sticky and non-plastic when wet many fine and medium roots common fine pores.				
	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Diverse grass, forb, shrub functional/structural groups and diverse root structure/patterns reduces raindrop impact slows overland flow providing increased time for infiltration to occur. Extended drought reduces short and mid bunchgrasses causing decreased infiltration and increased runoff following intense storm events, especially in bare patch areas if present or exposed sandstone.				
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	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None				
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	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None  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: Warm-season midgrasses  Sub-dominant: Warm-season shortgrasses				
	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None  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: Warm-season midgrasses  Sub-dominant: Warm-season shortgrasses  Other: Perennial cool-season>Warm-season Tall>shrubs & trees > Perennial forbs.				

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pounds per acre) Production of	can de reduced following	a extended arought or the first	growing season following wildfire

- 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: Piñon and oneseed juniper trees are the potential native invaders into this site. Increased trees into this site also greatly affects herbaceous production grasses and forbs.
- 17. **Perennial plant reproductive capability:** All plants should be vigorous, healthy and reproductive depending on disturbances i.e. drought. Plants should have numerous seed heads, vegetative tillers, etc. The only limitations are weather, wildfire, and natural disease that may temporarily reduce reproductive capability.