

Ecological site R012XY041ID Gravelly 7-10 PZ ATCO/SPCR

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

5. Number of gullies and erosion associated with gullies: Gullies do not occur on this site.

Indicators

1.	Number and extent of rills: Rills rarely occur on this site. They are most likely to occur immediately following a wildfire. Gravels on the surface reduce erosion.
2.	Presence of water flow patterns: Water flow patterns are rare on this site. When they do occur, they are short, disrupted by cool season perennial grasses, medium shrubs and gravels and are not extensive.
3.	Number and height of erosional pedestals or terracettes: Erosional pedestals or terracettes are rare on this site.
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground ranges from 25-40 percent.

	of <0.1 foot. Under the mature shrubs, litter is greater than 0.5 inches. Fine litter can accumulate on the terracettes.
ŀ.	Average percent litter cover (%) and depth (in): Annual litter cover in the interspaces will be 5-10 percent to a depth
3.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Very little decadence is expected to occur on this site. Mortality can occur following a mealy bug infestation and extended drought.
	Additional:
	Other:
	Sub-dominant: Warm season deep-rooted perennial bunchgrasses>cool season bunchgrasses>perennial forbs> shallow rooted bunchgrasses
	Dominant: Medium shrubs>>
2.	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):
۱.	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.
).	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Bunchgrasses, especially deep-rooted, slow run-off and increase infiltration.
).	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Structure ranges from weak thin platy to weak medium, coarse or moderate very fine, fine subangular blocky. The A or A1 horizon is typically 3 to 9 inches thick. Soil organic matter (SOM) ranges from 0.5 to 1 percent.
3.	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 but need to be tested.
•	up to 2-3 feet or further following a significant run-off event. Coarse litter generally does not move.
,	Amount of litter movement (describe size and distance expected to travel): Fine litter in the interspaces may move
	present.

grasses produce 35-45 percent of the total, forbs 5-10percent and shrubs 50-60 percent.

for the ecological site: Invasive species include cheatgrass, annual kochia, annual mustards, Russian thistle and halogeton. 7. Perennial plant reproductive capability: All functional groups have the potential to reproduce in normal years.