

Ecological site R040XD003CA Rocky Slopes 2-4" p.z.

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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	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

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

Indicators

1.	Number and extent of rills: Rills are none to rare. A few rills can be expected on steeper slopes in areas recently subjected to summer convection storms. Rock fragments armor the surface.
2.	Presence of water flow patterns: Water flow patterns are none to rare but can be expected in areas recently subjected to summer convection storms, usually on steeper slopes.
3.	Number and height of erosional pedestals or terracettes: Pedestals are none to rare. Occurrence is usually limited to areas of water flow patterns.
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare Ground 2-5%; there is very little bare ground due to high gravel, cobble, stone and boulder cover.
5.	Number of gullies and erosion associated with gullies: None

7.	Amount of litter movement (describe size and distance expected to travel): Fine litter (foliage from grasses and annual & perennial forbs) expected to move until trapped under surface fragments or other plants. Persistent litter (large woody material) will remain in place except during catastrophic events.
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil stability values should be 1 to 4 on most soil textures found on this site. (To be field tested.)
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Surface structure is typically moderate thick platy to weak fine subangular blocky structure. Soil surface colors are light brown and soils are typified by an ochric epipedon. Organic matter of the surface horizon is typically <1 percent dropping off quickly below. Organic matter content can be more or less depending on micro-topography.
0.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Shrub canopy and associated litter break raindrop impact.
1.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): Compacted layers are not typical.
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):
	Dominant: Mojave Desert shrubs
	Sub-dominant: perennial forbs > annual forbs > perennial grasses > annual grasses
	Other:
	Additional:
3.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Dead branches within individual shrubs common and standing dead shrub canopy material may be as much as 25% of total woody canopy.
4.	Average percent litter cover (%) and depth (in): Between plant interspaces up to 5%.
5.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): For normal or average growing season ± 250 lbs/ac.
6.	Potential invasive (including noxious) species (native and non-native). List species which BOTH characterized degraded states and have the potential to become a dominant or co-dominant species on the ecological site.

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: Invaders on this site include red-stem filaree, red brome, and Mediterranean grass.		
7.	Perennial plant reproductive capability: All functional groups should reproduce in average (or normal) and above average growing season years.		