

Ecological site R081CY359TX Gravelly Redland 29-35 PZ

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

Inc	Indicators		
1.	Number and extent of rills: None.		
2.	Presence of water flow patterns: Some water flow patterns are expected due to runoff from Adobe, Steep Adobe, and Low stony hill sites.		
3.	Number and height of erosional pedestals or terracettes: None.		
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): 0-5% bare ground.		
5.	Number of gullies and erosion associated with gullies: None.		
6.	Extent of wind scoured, blowouts and/or depositional areas: None.		

7. Amount of litter movement (describe size and distance expected to travel): Little or no litter movement or

	deposition during normal rainfall events.
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Stability range is expected to be 5-6.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Reddish brown clay surface with medium angular blocky structure, 0 to 8 inches Thick A horizon. Gravelly modifier. 1 to 3 percent Organic Matter.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: High canopy, basal cover and density with small interspaces should make rainfall impact negligible. This site has well drained soils, very slowly permeable with 1 to 5 percent slopes which allow negligible runoff and erosion.
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None.
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: Warm-season tallgrasses Warm-season midgrasses
	Sub-dominant: Warm-season midgrasses Trees Shrubs Forbs
	Other: Warm-season shortgrasses Cool-season grasses
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Perennial grasses will naturally exhibit a minor amount (less than 5%) of senescence and some mortality every year.
14.	Average percent litter cover (%) and depth (in): >90 percent litter, 0.5 to 1.0 inch depth.
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 2000 to 4500 pounds per acre.
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

	for the ecological site: Ashe juniper, pricklypear, yucca, tasajillo, pricklyash, lotebush, mesquite, King Ranch blueste silky bluestem.			
Perennial plant reproductive capability: All perennial species should be capable of reproducing every year unless disrupted by extended drought, overgrazing, wildfire, insect damage, or other events occuring immediately prior to, or during the reproductive phase.				