

Ecological site R077EY057TX Limy Upland 16-24" PZ

Last updated: 9/12/2023 Accessed: 05/05/2024

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	09/04/2007
Approved by	Bryan Christensen
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

nc	ndicators					
1.	Number and extent of rills: None to slight.					
2.	Presence of water flow patterns: None to slight.					
3.	Number and height of erosional pedestals or terracettes: None to slight.					
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): 20-25%.					
5.	Number of gullies and erosion associated with gullies: None to slight.					
6.	Extent of wind scoured, blowouts and/or depositional areas: None to slight.					
7.	Amount of litter movement (describe size and distance expected to travel): None to slight.					

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Very resistant to surface erosion.				
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Loamy, friable surface, medium SOM.				
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Basal cover and density with small interspaces will make rainfall impact minimal. This site is a moderately permeable soil, runoff is slow to medium, and available water holding capacity is medium.				
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 shortgrasses >				
	Sub-dominant: Warm-season midgrasses > Cool-season midgrasses >				
	Other: Warm-season tallgrasses > Forbs > Shrubs/Vines > Trees				
	Additional:				
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Grasses due to their growth habit will exhibit some mortality and decadence though minimal.				
14.	Average percent litter cover (%) and depth (in): Litter is dominantly herbaceous.				
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 1,200 to 2,200 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 invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site: Yucca, cholla, and pricklypear can be invasive.				

17. Perennial plant reproductive capability: All plant species should be capable of reproduction except during periods of

onged drought co	nditions, heavy nat	tural herbivory,	or intense wild	lfires.	