

Ecological site R078CY102TX Lakebed 23-30" 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	Bryan Christensen		
Approval date			
Composition (Indicators 10 and 12) based on	Annual Production		

Ind	Indicators				
1.	Number and extent of rills: None.				
2.	Presence of water flow patterns: Deposition ffrom erosion is uncommon but may occur during intense rainfall events.				
3.	Number and height of erosional pedestals or terracettes: Pedestals or terracettes would have been uncommon for this site.				
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Expect no more than 20% bare ground randomly distributed throughout.				
5.	Number of gullies and erosion associated with gullies: None.				
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): This is a depressional area that can be				

	ponded with water. Under normal rainfall, litter movement should be expected; however, litter of all sizes may accumulate in the depressional areas.
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil surface in HCPC is resistant to erosion. 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): 0-26 inches thick with dark gray clay colors having moderate, medium course blocky structure. SOM is approximately 1-6%. See soil survey for more information.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Lakebed having mid and shortgrasses with adequate litter and little bare ground provides for maximum infiltration and little runoff under normal rainfall events.
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 midgrasses > Warm-season shortgrasses >
	Sub-dominant: Grass-likes >
	Other: Cool-season grasses > Forbs > Trees > Shrubs/Vines
	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): Litter is primarily herbaceous.
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 1000-4000 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

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.						