

## Ecological site R150AY641TX Lakebed

Last updated: 9/22/2023 Accessed: 04/26/2024

## 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.

Author(s)/participant(s)	Stan Reinke, RMS, NRCS, Victoria, TX
Contact for lead author	
Date	08/15/2007
Approved by	Bryan Christensen
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

## Indicators

movement can be expected.

	illuators
1.	Number and extent of rills: None.
2.	Presence of water flow patterns: Water flow patterns should not be evident on this depressional site.
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): Less than 15 percent 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.

7. Amount of litter movement (describe size and distance expected to travel): This is a depressional site and little

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil surface is resistant to erosion. Soil stability class range is expected to be 5 to 6.							
9. Soil surface structure and SOM content (include type of structure and A-horizon color and thickness inches of dark gray clay. Fine and medium granular and sub-angular blocky structure; very hard, very firm sticky; many fine roots; few cracks; neutral, clear, smooth boundary. SOM is 1 to 4 percent								
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Little effect in this depressional landscape position.							
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							
	Sub-dominant: Warm-season tallgrasses Grasslikes							
	Other: Forbs							
	Additional: No trees or shrubs expected.							
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Some plant mortality can be expected on perennial warm-season grasses (FACU, UP) or perennial warm-season forbs (FAC, FW, OB) depending on length of ponding during the growing season.							
14.	Average percent litter cover (%) and depth ( in):							
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 4,250 to 6,625 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: Woody invaders to this site include huisache, retama, senna bean, and mesquite.							