

## **Ecological site R083AY017TX Blackland**

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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

Inc	Indicators						
1.	Number and extent of rills: None.						
2.	Presence of water flow patterns: Few water flow patterns are normal for this site due to landscape position and slopes.						
3.	Number and height of erosional pedestals or terracettes: Pedestals 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): Less than five percent 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): Small-to-medium sized litter may move

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 4 to 6.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Soil surface struture is 10 to 60 inches thick with colors ranging from black to dark grayish brown with subangular blocky structure. Soil organic matter is one to six percent.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: A high canopy cover of bunch, rhizomatous, and stoliniferous grasses will help minimize runoff and maximize infiltration. Grasses and forbs should comprise approximately 90 percent of total plant compostion by weight. Trees and shrubs will comprise about 10 percent by weight.
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: Perennial Tall/Midgrasses >> Perennial Midgrasses >>
	Sub-dominant: Perennial Shortgrasses> Forbs > Cool Season grasses>> Trees/Shrubs
	Other: Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Little apparent mortality or decadence for any functional groups.
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): 4,000 to 5,500 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

short distances during intense storms.

Perennial plant reproductive capability: All species should be capable of reproducing.							