

## **Ecological site R150AY528TX** Claypan Prairie

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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

6. Extent of wind scoured, blowouts and/or depositional areas: None.

no	dicators
1.	Number and extent of rills: None.
2.	Presence of water flow patterns: Some water flow patterns are normal on this site due to landscape position and slopes.
3.	Number and height of erosional pedestals or terracettes: Pedestals or terracettes would have been very uncommon for this site when occupied by the reference community.
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 percent bare ground distributed in small patches.
5.	Number of gullies and erosion associated with gullies: No gullies should be present. Drainage ways should be stable and covered with vegetation.

7.	Amount of litter movement (describe size and distance expected to travel): This site has slowly permeable soils. On sloping sites, small to medium sized litter will move short distances with intense storms.
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil surface under reference conditions is resistant to erosion. Stability class range is expected to be 4 to 5.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Greater than 13 inches thick with colors from dark brown clay loam (10YR4/3) to very dark gray clay loam (10YR3/1) and generally medium subangular blocky structures. SOM 1 to 3 percent
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Under reference conditions, the savannah of trees, shrubs, vines, grasses, and forbs 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 perennial midgrasses
	Sub-dominant: warm-season perennial tallgrasses cool-season perennial midgrasses
	Other: warm-season forbs trees shrubs/vines
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): There should be little mortality or decadence for any functional group.
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): 3,400 to 6,200 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

Perennial plant reproductive capability: All plants should be capable of reproduction except during heavy natural herbivory, intense wildfires or extended drought conditions.						