

## Ecological site R080BY159TX Sandy Loam 26-33" 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

## **Indicators**

- 1. Number and extent of rills: None.
- 2. **Presence of water flow patterns:** Water flow patterns are noticeable only in areas close to intermittent creeks that occur within the site. Deposition or erosion is uncommon for normal rainfall but may occur during intense rainfall events.
- 3. Number and height of erosional pedestals or terracettes: Uncommon.

moss, plant canopy are not bare ground): Expect no more than 10% bare ground randomly distributed throughout.
<b>Number of gullies and erosion associated with gullies:</b> Some gullies may be present side drains into perennial and intermittent streams. Gullies should be vegetated and stable
Extent of wind scoured, blowouts and/or depositional areas: None.
Amount of litter movement (describe size and distance expected to travel): Under normal rainfall, little litter movement should be expected. However, litter of all sizes may move long distances due to obstructions.
Soil surface (top few mm) resistance to erosion (stability values are averages - mossites will show a range of values): Soil surface under HCPC is resistant to erosion. Stability class range is expected to be 5-6.
Soil surface structure and SOM content (include type of structure and A-horizon coand thickness): 0-8 inches thick that has brown fine sandy loam with weak fine subanguablocky structure. SOM is approximately 1-6%. See soil survey.
Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: The savanna of warm-seast tallgrasses and midgrasses and forbs having adequate litter and little bare ground provide for maximum infiltration and little runoff under normal rainfall events.

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 tallgrasses >>
	Sub-dominant: Warm-season midgrasses > Forbs >
	Other: Cool-season grasses > Trees > Shrubs/Vines > Warm-season shortgrasses
	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 very slight.
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): 2800 to 6000 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: Mesquite, pricklypear, tasajillo, lotebush, bermudagrass, johnsongrass, King Ranch bluestem, annual broomweed.
17.	Perennial plant reproductive capability: All perennial plants should be capable of

reproducing, except during periods of prolonged drought conditions, heavy herbivory, and

wildfires.	
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