

## Ecological site R078CY096TX Clay Loam 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

## Indicators

Inc	ndicators					
1.	Number and extent of rills: None to slight.					
2.	Presence of water flow patterns: Water flow patterns are common and follow old stream meanders. Deposition or erosion is uncommon for normal rainfall but may occur during intense rainfall events.					
3.	Number and height of erosional pedestals or terracettes: None to slight. 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: Some gullies may be present on side drains into perennial and intermittent streams. Gullies should be vegetated and stable.					
6.	Extent of wind scoured, blowouts and/or depositional areas: None					

7.	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 depending on obstructions under intense storm events.					
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. 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): 0 to 8 inches thick dark grayish brown fine sandy loam with weak granular structure. SOM is approximately 1-6%. See soil survey for specific soils information.					
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: The grassland cover of mid and short grasses plus litter provided excellent soil protection and infiltration. Little runoff occurred except under heavy rainfall events.					
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): No evidence of compaction under HCPC.					
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 shortgrasses >>					
	Sub-dominant: Warm-season midgrasses >> Cool-season grasses >					
	Other: Forbs > Grass-likes > Shrubs > Trees					
	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 dominantly herbaceous.					
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 1000 - 3000 lbs/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					

<b>Perennial plant reproductive capability:</b> All perennial plants should be capable of reproducing except during periods of prolonged drought conditions, heavy natural herbivory or wildfires.							