

Ecological site R080BY153TX Loamy Sand 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: Deposition or erosion is uncommon during normal rainfall events, but may occur in limited areas during intense rainfall events.						
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): Expect no more than 10% bare ground scattered randomly throughout the site.						
5.	Number of gullies and erosion associated with gullies: Few rills and very few gullies may occur on sidedrains into perennial and intermittent streams. Gullies and rills should be vegetated and stable.						
6.	Extent of wind scoured, blowouts and/or depositional areas: Uncommon.						

7.	Amount of litter movement (describe size and distance expected to travel): Little or no litter movement or eposition during normal rainfall events.							
8.	8. Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil surface is moderately susceptible to wind erosion in this MLRA.							
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): 0-8" thick - weak, fine granular structure. SOM is approximately 1-6%. See Official Series Description for more information.							
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: The tallgrass/midgrass savanna with abundant forbs, adequate litter, and little bare ground provides for maximum infiltration and negligible runoff.							
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 tallgrasses >> warm-season midgrasses >							
	Sub-dominant: Warm-season midgrasses > Trees >							
	Other: Forbs > Shrubs/Vines > Cool-season grasses							
	Additional:							
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Perennial grasses will naturally exhibit a minor amount (less than 5%) of senescence and some mortality every year.							
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): 2000 to 5500 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							

Perennial plant reproductive capability: All perennial species should be capable of reproducing every year unless disrupted by extended drought, overgrazing, wildfire, insect damage, or other events occuring immediately prior to, o during the reproductive phase.						