

## **Ecological site R086AY001TX** Northern Chalky Ridge

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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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Approval date					
Composition (Indicators 10 and 12) based on	Annual Production				

Ind	dicators
1.	Number and extent of rills: None.
2.	Presence of water flow patterns: Some water flow patterns are normal for this site due to landscape position and slope but should be vegetated and stable.
3.	Number and height of erosional pedestals or terracettes: A few slightly elevated pedestals or terracettes may occur due to slope, landscape position, and natural lack of cover on 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 percent bare ground randomly distributed throughout.
5.	<b>Number of gullies and erosion associated with gullies:</b> No gullies should be present. Drainageways should be stable and covered with vegetation.
6	Extent of wind secured, blowouts and/or depositional areas: None

7.	Amount of litter movement (describe size and distance expected to travel): Small to medium-size litter movement for short distances should be expected on this site during intense rainfall events.							
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 6.							
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Soil surface is 6 to 10 inches thick with colors of very dark brown with moderately fine to very fine subangular blocky structure. SOM is 1 to 3 percent.							
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: This prairie site is dominated by tallgrasses and forbs having adequate litter and little bare ground which can provide 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 tallgrasses >>							
	Sub-dominant: Warm-season midgrasses > Forbs >							
	Other: Cool-season grasses > 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 groups in the reference community.							
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): 2,400 pounds per acre for below average moisture years and 4,400 pounds per acre for above average moisture years.							
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							

elm, huisache, Eastern red cedar, osage orange and prickly pear.  Perennial plant reproductive capability: All perennial plants should be capable of reproducing except during periods of prolonged drought conditions, heavy natural herbivory or intense wildfires.									