

Ecological site R081CY699TX Clayey Bottomland 29-35" PZ

Last updated: 9/20/2019 Accessed: 05/06/2024

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.

Author(s)/participant(s)	
Contact for lead author	
Date	06/02/2005
Approved by	Colin Walden
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

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

Indicators	
1.	Number and extent of rills: None.
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: Pedestals or terracettes would have been 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 and in small and non-connected areas.
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.

7.	Amount of litter movement (describe size and distance expected to travel): This is a flood plain with occasional out of bank flow. 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 5-6.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Soil surface structure is 0 to 48 inches thick with colors from dark reddish brown clay to very dark gray clay with generally subangular blocky structure. SOM is approximately 1-6%.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: 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): No evidence of compaction.
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: Cool-season grasses
	Sub-dominant: Warm-season tallgrasses Warm-season midgrasses
	Other: Trees Shrubs Forbs
	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): Dominant litter is herbaceous with small to large woody litter common.
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 4000# for below average moisture to 7000# for above average moisture.
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: Potential invasives for this site include Chinese tallow, huisache, honey locust, bois d'''arc, elm, ash, mccartney rose, dallisgrass, bermudagrass, johnsongrass, annual sumpweed, giant ragweed, and King Ranch bluestem.

17. **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.