

Ecological site R085AY182TX Low Stony Hill 30-38" 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

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inc	dicators
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 10% 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.

•	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 during 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 under HCPC is resistant to erosion. Soil stability class range is expected to be					
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): 0-6 inches of Dark brown flaggy silty clay loam with subrounded to angular pebbles, cobbles, and stones. Has a strong fine granular structure. SOM is 1-4%. See soil survey for more information.					
0.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: The savannah of tallgrasses, midgrasses, and forbs having adequate litter and little bare ground can provide for maximum infiltration and little runoff under normal rainfall events.					
1.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None.					
2.	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 > Cool-season midgrasses > Trees >					
	Other: Warm-season shortgrasses > Forbs > Shrubs/Vines					
	Additional:					
3.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Grasses and forbs due to their growth habit will exhibit some mortality and decadence, though very slight. Open spaces from disturbance are quickly filled by new plants through seedlings and reproductive reproduction (tillering).					
4.	Average percent litter cover (%) and depth (in): Litter is primarily herbaceous.					
5.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 3000 - 5100 pounds per acre					

for the ec	for the ecological site: Ashe juniper, honey mesquite, pricklypear, bermudagrass, johnsongrass, King Ranch bluester							
Perennial plant reproductive capability: Under HCPC, all perennial plants should be capable of reproducing, except during periods of prolonged drought conditions, heavy natural herbivory or intense wildfires.								