

Ecological site R085AY565TX Pink Caliche 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

Indicators

	indicators		
1.	Number and extent of rills: Rills are rare, and if present they are very short (<5 feet).		
2.	Presence of water flow patterns: Water flow patterns are uncommon and very short (<5 feet) due to interruption by rocks or plant bases. 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.		
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): This site has essentially no bare ground and any patches are randomly distributed throughout the site 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 are vegetated and stable.		

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

face (top few mm) resistance to erosion (stability values are averages - most sites will show a range of The soil surface under HCPC conditions is resistant to erosion; the stability class range is expected to be 4-6. face structure and SOM content (include type of structure and A-horizon color and thickness): Soil is mainly loam but ranges from fine sandy loam to clay loam. Limestone or sandstone fragments are common on ince. Characteristic pink or reddish-brown color. Available water capacity is low and the soils are droughty. If community phase composition (relative proportion of different functional groups) and spatial tion on infiltration and runoff: The savannah of tallgrasses, midgrasses, and forbs having adequate litter and a ground can provide for maximum infiltration and little runoff under normal rainfall events. The and thickness of compaction layer (usually none; describe soil profile features which may be in for compaction on this site): None.
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nal/Structural Groups (list in order of descending dominance by above-ground annual-production or live over using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
nt: Warm-season tallgrasses >>
ninant: Warm-season midgrasses >>
ool-season midgrasses > Trees > Shrubs/Vines > Forbs > Warm-season shortgrasses
al:
of plant mortality and decadence (include which functional groups are expected to show mortality or nce): Grasses and forbs due to their growth habit will exhibit some mortality and decadence, though very slight. aces from disturbance are quickly filled by new plants through seedlings and reproductive reproduction.
e percent litter cover (%) and depth (in): Litter is dominantly herbaceous.

	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: Ashe juniper, Honey mesquite, Pricklypear, Bermudagrass, Johnsongrass, King Ranch bluestem.
17.	Perennial plant reproductive capability: All perennial plants should be capable of reproducing, except during periods of prolonged drought conditions, heavy herbivory, and wildfires.