

## Ecological site R077AY002TX Draw 16-22" 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

are not

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Very resistant to surface erosion					
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Loam to clay loam friable surfaces, and high SOM.					
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Basal cover and density with small interspaces should make rainfall impact minimal. This site has moderately permeable soil, runoff is slow to medium, and available water holding capacity is high.					
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None					
	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 midgrasses > warm season midgrasses > warm season tallgrasses>					
	Sub-dominant: forbs > shrubs = trees					
	Other:					
	Additional:					
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Minimum mortality and decadence.					
14.	Average percent litter cover (%) and depth ( in):					
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 2,200 - 2,800 lbs./ac.					
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: Yucca and Baccharis. Broom snakeweed can become invasive.					
17.	Perennial plant reproductive capability: All plant species should be capable of reproduction except during periods of					

prolonged drought conditions, heavy natural herbivory or intense wildfires.