

## **Ecological site R058AE014MT** Dense Clay (DC) RRU 58A-E 10-14" p.z.

Accessed: 05/07/2024

## 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)	T. DeCock; R Kilian		
Contact for lead author	Tammy DeCock		
Date	06/11/2014		
Approved by	Jon Siddoway		
Approval date			
Composition (Indicators 10 and 12) based on	Annual Production		

no	dicators
1.	Number and extent of rills: Rills should not be present.
2.	Presence of water flow patterns: Water flow patterns are obvious and numerous and may reach up to 10 inches wide and 2 feet long.
3.	Number and height of erosional pedestals or terracettes: Erosional pedestals up to ½ inch may be present. Terracettes should be minor.
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground is < 60%. Bare ground will occur in quit large areas.
5.	Number of gullies and erosion associated with gullies: Active gullies should not be present. Existing gullies should be "healed" with a good vegetative cover.
6.	Extent of wind scoured, blowouts and/or depositional areas: None.

bil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of slues): Surface Soil Aggregate Stability under plant canopy should typically be 5 or greater. Surface Soil Aggregate ability not under plant canopy should typically be 3 or slightly less.  bil surface structure and SOM content (include type of structure and A-horizon color and thickness): Use soil grees are description.  fect of community phase composition (relative proportion of different functional groups) and spatial stribution on infiltration and runoff: Sparse plant canopy (20% maximum), very slow to slow infiltration rates, and so high amount of bare ground contribute to a naturally high runoff rate even in HCPC.  The seence and thickness of compaction layer (usually none; describe soil profile features which may be distaken for compaction on this site): No compaction layer should be evident. This site is often typified by a vesicular				
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rface (less than 2 inches) over a very hard subsoil.				
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):				
ominant: Cool season, mid-stature, rhizomatous grasses				
ub-dominant: Shrubs and half shrubs >> Cool season, Mid-stature, Bunch grasses = Cool season, short-stature, bunch asses and sedges = Warm season, mid-stature, bunch grasses				
ther: Minor components: Cool season, short-stature, rhizomatous grasses and sedges = forbs = Warm season, midature, rhizomatous grasses				
dditional: (Blue grama should be grouped with warm season, short-stature, rhizomatous grasses due to its growth form)				
mount of plant mortality and decadence (include which functional groups are expected to show mortality or ecadence): Some plant mortality and decadence (5 to 10%) is expected on this site.				
verage percent litter cover (%) and depth (in): Litter cover is in contact with soil surface.				
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Perennial plant reproductive capability: All species are capable of reproducing.							

their future establishment and growth is not actively controlled by management interventions. Species that