

Ecological site R041XC304AZ Clayey Upland 12-16" p.z.

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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	Scott Woodall		
Approval date			
Composition (Indicators 10 and 12) based on	Annual Production		

lno	ndicators						
1.	Number and extent of rills: None present on this site.						
2.	Presence of water flow patterns: Uncommon; probably cover no more than 2-5% of area; discontinuous, 2-20 feet in length in low gravel cover areas, broken by plants and micro topography from cracking and swelling; High gravel cover areas (50% cover) at this site results in sheet flow of these areas; Gravel cover averaged 9% across site.						
3.	Number and height of erosional pedestals or terracettes: Accumulated pedastals are 1 inch tall and are common of perennial grass plants; terracettes are very uncommon due to low slope.						
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Estimated from 200 points at 60%.						
5.	Number of gullies and erosion associated with gullies: None present on this site.						

6. Extent of wind scoured, blowouts and/or depositional areas: None present on this site.

soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of alues): No slake test done; expect values of 1-2 in bare ground areas and 4-6 in canopy areas.					
soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Thin (1/8 nch) rain drop compacted laminar layer, weak granular; Color is 10YR5/4 Dry, 10YR3/3 Moist; No A horizon, Clayloam exture to 6 inches.					
iffect of community phase composition (relative proportion of different functional groups) and spatial istribution on infiltration and runoff: Cover estimated from 200 points was: Canopy 14%, Basal 7% Litter 7% and Gravel 9%; 85% of canopy cover is perennial grasses and 14% is subshrubs and 1% shrubs & succulents. Cover is elatively well dispersed thoughout site, with bare patches 10-20 feet wide dispersed throughout site.					
resence and thickness of compaction layer (usually none; describe soil profile features which may be nistaken for compaction on this site): None present on this site. Penetrometer tests with weight dropped 5 times at a istance from top of weight to topo of impact ring = 2.24 feet were: average = 3.26 inches, s.d = 0.46 inches.					
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: Perennial grass					
sub-dominant: subshrubs					
Other: annual forbs					
dditional: Perennial grass >> subshrubs > annual forbs > shrubs > perennial forbs > succulents					
Amount of plant mortality and decadence (include which functional groups are expected to show mortality or ecadence): 20% basal mortality (prior years mortality not well evidenced).					
verage percent litter cover (%) and depth (in):					
expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 600 lbs/acre unfavorable precipitation, 1,000 lbs/acre normal precipitation, 1,500 lbs/acre favorable recipitation.					

Perennial plant reproductive capability: Not affected even following several years of prolonged drought period for region.						

become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not