

Ecological site R040XB217AZ Sandy Upland 7"-10" 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	S. Cassady
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

ndicators					
1.	Number and extent of rills: None due to high infiltration rates.				
2.	Presence of water flow patterns: Water flow patterns are uncommon due to high infiltration rates.				
3.	Number and height of erosional pedestals or terracettes: All shrubs have symmerical mounds 2-5 inches tall formed by combined action of splash, erosion and rodents. There are no pedestals on rock or gravel fragments and no terracettes are present.				
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): 60-70%				
5.	Number of gullies and erosion associated with gullies: None				
6.	Extent of wind scoured, blowouts and/or depositional areas: Minor evidence of soil movement by wind.				

7. Amount of litter movement (describe size and distance expected to travel): Herbaceous litter can move by wind.

	Woody litter remains under shrub canopies.				
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil surface resistance to erosion is good under shrub canopies to moderate in interspaces due to crusts formed by raindop impact.				
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Weak the plat to granula; color 7.5-10YR6/4 dry, 7.5-10YR4/5 moist; to 2inces thick				
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Canopy 15-20%. Herbaceous litter is present in some years and absent in others. Large shubs with large coppice mounds with high infiltration rates. Subshrubs with small mounds with high infiltration rates.				
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None				
12.	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: perennial grass > shrubs > winter annuals > trees > summer annuals > succulents = perennial forbs > cryptogams				
	Sub-dominant:				
	Other:				
	Additional:				
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): 0-50% canopy mortality; 90-100 mortality on perennial grasses.				
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): 400 lbs/ac unfavorable precipitation, 700 lbs/ac normal precipitation, 1000 lbs/ac favorabl precipitation				
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				

Perennial plant reproductive capability: Not impaired for shrubs, drought impaired for perennial grasses and forbs.						