

Ecological site R035XD412AZ Sandy Upland 7-11" p.z.

Accessed: 05/08/2024

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.

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Date	05/01/2008
Approved by	S. Cassady
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

IIIC	idicators	
1.	Number and extent of rills: None	
2.	Presence of water flow patterns: None	
3.	Number and height of erosional pedestals or terracettes: No pedestalling, but turf building (1-2 inches) by long-lived grasses is common.	
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground is < 45%.	
5.	Number of gullies and erosion associated with gullies: None	
6.	Extent of wind scoured, blowouts and/or depositional areas: None	

7. Amount of litter movement (describe size and distance expected to travel): No appreciable movement of litter

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soils associated with this site develop a thin cap that is resistant to erosion.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): The surface 0 to 2 inches of soils associated with this site are single grained; loose. Color is yellowish red (5YR 5/6) dry, yellowish red (5YR 4/6) moist.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Randomly scattered plants consisting of about 70 percent grasses, 25 percent shrubs and 15 percent forbs promote infiltration and reduce runoff. The average distance to the nearest perennial plant (fetch) is 4 inches, with the majority ranging from 2 to 6 inches, but occasionally as far as 14 inches.
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: Grasses (65 to 75%) >> Shrubs (20 to 30%) > Forbs (5 to 10%).
	Sub-dominant:
	Other:
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Due to the droughty nature of the soils associated with this site plant mortality is common, but should never be more than 10 percent except in severe drought conditions.
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): Average annual production on this site is expected to be 700 to 800 lbs/ac. in a year of average annual 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 invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state

	for the ecological site: Cheatgrass (Bromus tectorum) and Russian thistle (Salsola kali) are commonly found in small amounts on the site (< 2 percent). During years of above average winter and spring moisture the composition of these may increase slightly.		
7.	Perennial plant reproductive capability: All plants native to this site are adapted to the climate and are capable of producing seeds, stolons, and/or rhizomes except during the most severe droughts.		