

Ecological site R035XB267AZ Sandy Loam Upland 6-10" p.z. Limy

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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	Kendra Moseley
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

- 1. **Number and extent of rills:** None expected. Some soils have a moderate cover of rock fragments.
- 2. **Presence of water flow patterns:** None expected, but a few may occur on slopes. When water flow patterns are present they should not be connected and short. Some soils have a moderate cover of rock fragments.

3.	Number and height of erosional pedestals or terracettes: None, but slight deposition or mounding around long lived perennial plants is expected.
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground ranges from 30-55 percent. Biological soil crust can range from 0-10 percent and should not be counted as bare ground.
5.	Number of gullies and erosion associated with gullies: None
6.	Extent of wind scoured, blowouts and/or depositional areas: No wind scour or blowouts expected. None to very slight depositional areas around long lived perennial grasses and shrubs, especially during strong wind events or after prolonged droughts.
7.	Amount of litter movement (describe size and distance expected to travel): No wind scour or blowouts expected. None to very slight depositional areas around long lived perennial grasses and shrubs, especially during strong wind events or after prolonged droughts.
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): The expected average soil stability rating is 3-4, with under canopy ratings ranging from 2-6 and ratings without canopy range 1-3.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): The surface depth ranges from 2-4 inches thick with textures of gravelly sandy loam, channery fine sandy loam, and loamy coarse sand. Structure associated with this site is moderate (coarse, very thick) platy structure parting to moderate (weak, fine) granular structure with colors variable depending on parent material.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Vegetation is scattered across the landscape and consists of about 60-80 percent composition of grasses, 25-35 percent

_	Expected annual annual-production (this is TOTAL above-ground annual-production
4.	Average percent litter cover (%) and depth (in):
3.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): There may be some evidence of plant mortality in the perennial bunchgrasses such as stem remnants and standing dead; there may also be dead material at the base of actively growing perennial bunchgrasses and shrubs. The total amount of evident plant mortality may reach as high as 10% but should n exceed that amount.
	Additional:
	Sub-dominant: Shrubs > Other: Forbs > Succulents & Cacti
	Dominant: Cool season grasses > Warm season grasses >
2.	Functional/Structural Groups (list in order of descending dominance by above-group annual-production or live foliar cover using symbols: >>, >, = to indicate much great than, greater than, and equal to):
1.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None.

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: Broom snakeweed and galleta are native to the site, but can increase and dominate the with disturbance. Nonnative annuals that can become established on the site and invade are cheatgrass and especially Russian thistle.

17. **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.