

Ecological site R026XY002NV WET SODIC BOTTOM

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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

no	ndicators				
1.	Number and extent of rills: None				
2.	Presence of water flow patterns: Waterflow patterns are rare to common dependent on location relative to major inflow areas. Waterflow patterns are typically short, ending in depressional areas where water ponds. Moderately fine to fine surface textures and physical crusts result in limited infiltration rates. Concentrations of surface salts and sodium result in chemical crusts which also impede precipitation infiltration.				
3.	Number and height of erosional pedestals or terracettes: None				
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare Ground 10-20%				
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): Fine litter (foliage of grasses and annual & perennial forbs) expected to move distance of slope length during periods of intense summer convection storms. Persistent litter (large woody material) will remain in place except during unusually severe flooding events.
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil stability values will range from 1 to 4. (To be field tested.)
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Structure of soil surface is single grained or subangular blocky. Soil surface colors are dark browns and soils are typified by a mollic or ochric epipedon. Organic matter is typically less than 3 percent.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Perennial grasses and grass-likes slow runoff and increase infiltration
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): Compacted layers are none. Platy or massive subsurface layers are normal fo this site and are not to be interpreted as compaction
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: rhizomatous perennial grasses (salt grass) and grass-likes > salt-desert shrubs
	Sub-dominant: deep rooted, cool season, perennial forbs> cool-season perennial bunchgrasses = warm-season perennial bunchgrasses > annual forbs
	Other:
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Dead stems within rhizomatous perennial grasses and grass-likes may show up to 30% mortality
14.	Average percent litter cover (%) and depth (in): Under canopy and between plant interspaces (50-60%) and depth c litter is $\pm \frac{1}{4}$ inch.
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): For normal or average growing season (March thru mid-May) ±1700 lbs/ac, Favorable years 2000 lbs/ac and unfavorable years 1000 lbs/ac

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: Potential invaders include halogeton, Russian thistle, cheatgrass, mustards and salt cedar.

17.	Perennial plant reproductive capability: All functional groups should reproduce in average (or normal) and above	е
	average growing season years.	