

## Ecological site R053BY006ND Saline Lowland

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

## **Indicators**

1.	Number and extent of rills: None.
2.	Presence of water flow patterns: None.
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 is 5% or less with bare patches less than 2 inches in diameter and not connected. Slickspots of varying size can occur in complex with this site and will be mostly bare ground with sparse, salt-tolerant vegetation. Slickspots typically have salt crusting at the surface.
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): None.				
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil aggregate stability should be 5 or greater. Soil surface has high root content and is resistant to erosion.				
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Use soil series description for depth, color and structure of A horizon/surface layer.				
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: High grass canopy and small gaps between plants reduces raindrop impact and slows overland flow, providing increased time for infiltration to occur. Healthy, deep rooted native grasses enhance infiltration and reduce runoff.				
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None. Naturally occurring platy structure may be observable.				
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: Short and mid cool-season bunchgrasses = mid, cool-season rhizomatous				
	Sub-dominant: Tall and mid warm-season rhizomatous grasses				
	Other: Short, warm-season grasses > grass-likes = forbs > shrubs				
	Additional: Due to differing root structure and distribution, Kentucky bluegrass and smooth bromegrass do not fit into reference plant community F/S groups.				
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): None.				
14.	Average percent litter cover (%) and depth ( in): In contact with soil surface.				
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): Representative value = 3500 lbs/ac air dry with a range of 2800 to 4200 lbs./ac air dry depending upon growing conditions.				
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				

<b>Perennial plant reproductive capability:</b> All species exhibit high vigor relative to climatic conditions. Do not rate based solely on seed production. Perennial grasses should have vigorous rhizomes or tillers.							