

Ecological site R151XY677TX Saline Fluid Marsh 42+ PZ

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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			
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): None
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 noticeable.

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil surface is resistant to erosion. Stability class range is expected to be 5-6.					
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Soil surface structure is about 6 inches thick very dark gray organic layer over dark gray fluid mucky clay. SOM is 2-25%.					
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: This tallgrass marsh site with adequate cover and little bare ground provides for maximum infiltration and little runoff under normal rainfall events.					
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: Warm-season tallgrasses/grass-likes >>					
	Sub-dominant: Cool-season grasses/grass-likes >					
	Other: Warm-season forbs					
	Additional:					
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Decadence of warm-season tallgrasses/grass-likes is normal and contributes to the high percentage of organic matter that characterizes this site.					
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): 9000# for below average moisture years to 12000# for above average moisture years.					
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: None					
17.	Perennial plant reproductive capability: All perennial plants should be capable of reproducing					