

Ecological site R150BY550TX Northern Salt Marsh

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

Indicators

Number and extent of rills: None.
Presence of water flow patterns: At large scales, some drainage do occur.
Number and height of erosional pedestals or terracettes: None.
Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Less than 5 percent bare ground randomly distributed throughout.
Number of gullies and erosion associated with gullies: None.
Extent of wind scoured, blowouts and/or depositional areas: None.

7. Amount of litter movement (describe size and distance expected to travel): Small to medium-sized litter can be

expected to move short to long distances depending on the degree and extent of flooding.

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 ranges from 4 to 5 on the surface.				
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Soil surface structure is 60 inches thick of dark gray to very dark gray clay or silty clay of moderate fine subangular blocky structure. SOM is 1 to 2 percent.				
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: This tallgrass marsh site along with adequate litter 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: Forbs				
	Other: Warm-season midgrasses Shrubs Warm-season annual grasses Warm-season annual forbs				
	Additional:				
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Grasses due to their growth habit will exhibit some mortality and decadence, though very slight.				
14.	Average percent litter cover (%) and depth (in): Litter is primarily herbaceous.				
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 7,000 pounds per acre for below average moisture years to 13,000 pounds per acre 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: Chinese tallow and salt cedar.				

Perennial plant reproductive capability: Perennial plants should be capable of reproduction, except for periods of prolonged drought conditions, heavy natural herbivory, hurricanes, and intense wildfires.						