

Ecological site R053BY025ND Shallow Marsh

Last updated: 1/11/2024 Accessed: 05/11/2024

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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Date	04/13/2012
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Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

7. Amount of litter movement (describe size and distance expected to travel): None.

Indicators

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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 0 to 5%. Amount of bare ground may increase for a short time following periods of inundation.				
5.	Number of gullies and erosion associated with gullies: None.				
6.	Extent of wind scoured, blowouts and/or depositional areas: None.				

8.	8. Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a rar values): Soil surface fragments will typically retain structure indefinitely when dipped in distilled water.						
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. Stability class of 6.						
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Combination of shallow and deep rooted species (mid & tall rhizomatous and tufted perennial cool- and warm-season grasses) with fine and coarse roots positively influences infiltration.						
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: Tall, cool-season grasses = grass-likes >						
	Sub-dominant: Forbs >						
	Other: Tall, warm-season rhizomatous grasses > mid, cool-season rhizomatous grasses						
	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): Plant litter is in contact with soil surface.						
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): Representative value = 6400 lbs./ac air dry with a range of 5400 to 7400 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 invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site: State and local noxious, Kentucky bluegrass, smooth bromegrass, reed canarygrass, redtop						

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