

Ecological site R067BY035CO Salt Meadow

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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): 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): Typically slight, however during major flooding events this site slows water flow and captures litter and sediment.

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Stability class rating is anticipated to be near 6 at soil surface.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): SOM ranges from 2 to 4 percent. Soils are deep, poorly drained with a water table depth from 5 to 36 inches. Color of the A-horizon is dark grayish brown at 0 to 11 inches in depth. Surface structure is moderate fine granular.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Raindrop impact is reduced by the diverse grass, forb, shrub functional/structural groups and root structure. This slows overland flow and provides increased time for infiltration to occur. Extended drought, wildfire or both may reduce basal density, canopy cover, and litter amounts (primarily from tall, warm-season bunch and rhizomatous grasses), resulting in decreased infiltration and increased runoff on steep slopes following intense 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 mid bunchgrass > Sub-dominant: Warm-season tall bunchgrass > cool-season mid rhizomatous > warm-season tall rhizomatous > cool-season mid bunchgrass > cool-season grasslikes > forbs >
	Other: shrubs Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): None to slight. Expect slight shrub and grass mortality and decadence during and following extended drought or long-term lack of disturbance.
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): 2000 lbs./ac. low precipitation years; 3000 lbs./ac. average; 4000 lbs./ac. high. Extended drought may reduce annual production by 700 to 900 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: Invasive plants should not occur in the reference plant community.

17. **Perennial plant reproductive capability:** The only limitations are weather-related, wildfire, natural disease, and insects that temporarily reduce reproductive capability.