

Ecological site R013XY052ID

Saline Semiwet Meadow DISP

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

Indicators

1. **Number and extent of rills:** rills rarely occur on this site due to the relatively flat slopes.
2. **Presence of water flow patterns:** flow patterns can occur and when they do, they are short and disrupted by cool season grasses and are not extensive. They can be expected to occur where run-on from adjacent sites is present.
3. **Number and height of erosional pedestals or terracettes:** pedestals are rare on this site. Terracettes do not occur.
4. **Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):** data is not available. On sites in mid-seral status bare ground may range from 10-20 percent.
5. **Number of gullies and erosion associated with gullies:** gullies do not occur on this site.
6. **Extent of wind scoured, blowouts and/or depositional areas:** usually not present. Immediately following wildfire some soil movement may occur on lighter textured soils.

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7. **Amount of litter movement (describe size and distance expected to travel):** fine litter in the interspaces may move up to one foot following a significant run-off event. Coarse litter generally does not move.
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8. **Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):** values should range from 4 to 6 but needs to be tested.
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9. **Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):** structure ranges from moderate very fine and fine granular to moderate thin platy. Soil organic matter (SOM) ranges from 5 to 15 percent. Surface color is generally gray. The A or A1 horizon is typically 3 to 6 inches thick.
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10. **Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:** bunchgrasses and sod-formers slow run-off and increase infiltration.
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11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):** not present.
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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: cool season deep-rooted perennial bunchgrasses and sod-formers
- Sub-dominant: medium height shrubs
- Other: perennial forbs
- Additional:
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13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):** very little decadence occurs on this site. Plant mortality may occur from an abnormally high water table extending over 2-3 years.
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14. **Average percent litter cover (%) and depth (in):** additional litter cover data is needed but is expected to be 20-25 percent to a depth of 0.1 inches.
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15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):** is 1400 pounds per acre (1555 kilograms per hectare) in a year with normal temperatures and precipitation. Perennial grasses produce 80-90 percent of the total production, forbs 5-10 percent and shrubs 5-10 percent.
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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: Includes perennial pepperweed, whitetop, lambsquarter, and halogeton.
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17. **Perennial plant reproductive capability:** all functional groups have the potential to reproduce in normal years.
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