

## **Ecological site R034AY338WY Saline Lowland High Plains Southeast (SL)**

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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.

Author(s)/participant(s)	
Contact for lead author	
Date	05/01/2005
Approved by	E. Bainter
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

litter remains in place and is not moved by erosional forces.

## **Indicators**

1.	Number and extent of rills: Rills should not be present
2.	Presence of water flow patterns: Barely observable
3.	Number and height of erosional pedestals or terracettes: Essentially non-existent
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground is 10-20% occurring in small areas throughout site
5.	Number of gullies and erosion associated with gullies: Active gullies should not be present
6.	Extent of wind scoured, blowouts and/or depositional areas: None

7. Amount of litter movement (describe size and distance expected to travel): Little to no plant litter movement. Plant

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Plant cover and litter is at 80% or greater of soil surface and maintains soil surface integrity. Soil Stability class is anticipated to be 4 or greater.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Use Soil Series description for depth and color of A-horizon
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Grass canopy and basal cover should reduce raindrop impact and slow overland flow providing increased time for infiltration to occur. Healthy deep rooted native grasses enhance infiltration and reduce runoff. Infiltration is Moderate.
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): No compaction layer or soil surface crusting should be present.
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:
	Sub-dominant:
	Other:
	Additional: Mid stature Grasses > Shrubs > Short stature Grasses > Forbs
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Very Low
14.	Average percent litter cover (%) and depth ( in): Average litter cover is 30-40% with depths of 0.25 to 1.0 inches
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 1800 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: Cheatgrass and other annuals, Greasewood, Inland saltgrass and Species found on Noxious Weed List

Perennial plant reproductive capability: All species are capable of reproducing