

## **Ecological site R025XY057NV** SHALLOW CLAY LOAM 10-14 P.Z.

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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)	P Novak-Echenique
Contact for lead author	State Rangeland Management Specialist
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Approved by	Kendra Moseley
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Ind	Indicators					
1.	Number and extent of rills: Rills are none to rare. Rock fragments armor the surface.					
2.	Presence of water flow patterns: Water flow patterns are few and can be expected in areas subjected to summer convection storms or rapid snowmelt.					
3.	Number and height of erosional pedestals or terracettes: Pedestals are none to rare. Occurrence is usually limited to areas of water flow patterns. Frost heaving of shallow rooted plants should not be considered a "normal" condition.					
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare Ground ± 20% depending on amount of surface rock fragments.					
5.	Number of gullies and erosion associated with gullies: None					
6.	Extent of wind scoured, blowouts and/or depositional areas: None					

urface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of community phase composition (relative proportion of different functional groups) and spatial ution on infiltration and runoff: Perennial herbaceous plants (especially deep-rooted bunchgrasses [i.e., nch wheatgrass & Thurber's needlegrass]) slow runoff and increase infiltration. Shrub canopy and associated litter raindrop impact.				
re is typically thin to medium platy, subangular blocky, or granular. Soil surface colors are browns and soils are by a mollic epipedon. Organic matter of the surface 2 to 3 inches is typically 1.5 to 4 percent dropping off quickly Organic matter content can be more or less depending on micro-topography.  of community phase composition (relative proportion of different functional groups) and spatial rution on infiltration and runoff: Perennial herbaceous plants (especially deep-rooted bunchgrasses [i.e., nch wheatgrass & Thurber's needlegrass]) slow runoff and increase infiltration. Shrub canopy and associated litter				
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nce and thickness of compaction layer (usually none; describe soil profile features which may be sen for compaction on this site): Compacted layers are none. Subangular blocky, platy, or massive sub-surface as or subsoil argillic horizons are not to be interpreted as compacted layers.				
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):				
ant: Reference Plant Community: Deep-rooted, cool season, perennial bunchgrasses				
ominant: low shrubs (black sagebrush) > associated shrubs > shallow-rooted, cool season, perennial grasses > deep-rooted, cool season, perennial and annual				
nal:				
nt of plant mortality and decadence (include which functional groups are expected to show mortality or				
ence): Dead branches within individual shrubs common and standing dead shrub canopy material may be as as 25% of total woody canopy; some of the mature bunchgrasses (<15%) have dead centers.				

affects total producti	on. Favorable ve	ars ± 700 lbs/ac a	nd unfavorable v	vears ± 300 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: Potential invaders include cheatgrass, snakeweed, halogeton, Russian thistle, annual mustards, and knapweeds.
- 17. **Perennial plant reproductive capability:** All functional groups should reproduce in average (or normal) and above average growing season years. Little growth or reproduction occurs during extreme drought years.