

Ecological site R030XB006NV LOAMY 5-7 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.

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Date	08/19/2011
Approved by	Kendra Moseley
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

1.	Number and extent of rills: Rills are none. Soil surface armored by rock fragments.
2.	Presence of water flow patterns: Water flow patterns are none.
3.	Number and height of erosional pedestals or terracettes: Pedestals are none.
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground is 5-15%; surface rock fragments up to 95%.
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): Fine litter (foliage from grasses and annual & perennial forbs) expected to move distance of slope length (<10 ft) during intense summer convection storms

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Soil stability values should be 3 to 6 on most soil textures found on this site. Areas of this site occurring on soils that have a physical crust will probably have stability values less than 3. (To be field tested.)
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Surface structure is typically strong, very thick platy to moderate, medium subangular blocky or single grained. Soil surface color are light and soils are typified by an ochric epipedon. Organic matter of the surface 2 to 3 inches is typically less than 1%. Organic matter content can be more or less depending on micro-topography.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Perennial herbaceous plants slow runoff and increase infiltration. Shrub canopy and associated litter break raindrop impact.
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be
	mistaken for compaction on this site): Compacted layers are none. Platy or massive sub-surface horizons or subsoil argillic horizons are not to be interpreted as compacted layers.
12.	
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	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: Mojave Desert shrubs Sub-dominant: cool-season perennial bunchgrasses > warm-season perennial bunchgrasses > perennial forbs > annual forbs Other:

100 lbs/ac.

or rapid snowmelt events. Persistent litter (large woody material) will remain in place except during large rainfall events.

16.	16. Potential invasive (including noxious) species (native and non-native). List species which BOTH characteriz degraded states and have the potential to become a dominant or co-dominant species on the ecological site 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 served for the ecological site: Potential invaders on this site include red brome, redstem filaree and Mediterranean grass.	
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 drought years.	