

## **Ecological site R026XY026NV GRANITIC SLOPE 10-12 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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Approved by	Kendra Moseley
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

ndicators	
1.	<b>Number and extent of rills:</b> A few rills can be expected on steeper slopes in areas subjected to summer convection storms or rapid spring snowmelt.
2.	Presence of water flow patterns: Water flow patterns are rare but can be expected on steeper slopes recently subjected to summer convection storms or rapid snowmelt.
3.	Number and height of erosional pedestals or terracettes: Pedestals are 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 ± 50%; surface rock fragments ±20%; shrub canopy 20 to 25%; foliar cover of perennial herbaceous plants ± 40%.
5.	Number of gullies and erosion associated with gullies: None

6. Extent of wind scoured, blowouts and/or depositional areas: None

14.	Average percent litter cover (%) and depth ( in): Between plant interspaces (± 10%) and litter depth is ± 1/4 inch.
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Dead branches within individual shrubs are common and standing dead shrub canopy material may be as much as 15% of total woody canopy; some of the mature bunchgrasses (<15%) have dead centers.
	Additional:
	Other:
	Sub-dominant: Deep-rooted, cool season, perennial forbs = associated shrubs > shallow-rooted, cool season, perennial bunchgrasses = fibrous, shallow-rooted, cool season, perennial and annual forbs. (By above ground production)
	Dominant: Reference Plant Community: Deep-rooted, cool season, perennial bunchgrasses >> tall shrubs (big sagebrush & antelope bitterbrush). (By above ground production)
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):
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 not typical. Platy or massive sub-surface horizons or subsoil argillic horizons shallow to the surface are not to be interpreted as compacted.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Perennial herbaceous plants (especially deep-rooted bunchgrasses [i.e., Thurber'"s needlegrass]) slow runoff and increase infiltration. Shrub canopy and associated litter break raindrop impact and provide opportunity for snow catch and accumulation on site.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Surface structure is typically thin to thick platy, subangular blocky or granular. Soil surface colors are dark and the soils are typified by an ochric epipedon or a thin mollic epipedon. Organic carbon of the surface 2 to 4 inches is typically 1 to 2.25 percent, dropping off quickly below. Organic matter content can be more or less depending on micro-topography.
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 4 to 6 on most soil textures found on this site. (To be field tested.)
	Amount of litter movement (describe size and distance expected to travel): Fine litter (foliage from grasses and annual & perennial forbs) is expected to move the distance of slope length during intense summer convection storms or rapid snowmelt events. Persistent litter (large woody material) will remain in place except during catastrophic events.

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, rabbitbrush, snakeweed, Russian thistle, annual mustards, and knapweeds are invaders on this site. Anderson'''s peachbrush, Utah juniper, and singleleaf pinyon are increasers on this site.
17.	<b>Perennial plant reproductive capability:</b> All functional groups should reproduce in average (or normal) and above average growing season years.

production): For normal or average growing season (through mid-June) ± 600 lbs/ac; Spring moisture significantly

affects total production.