

## Ecological site R040XB219AZ Schist Hills 7"-10" p.z.

Accessed: 05/21/2025

## 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)	Dave Womack, Shai Schendel, Scott Stratton, Dan Robinett, Emilio Carrillo
Contact for lead author	NRCS Tucson Area Office
Date	12/14/2005
Approved by	S. Cassady
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

## **Indicators**

1	Number	and	extent	of rills:	5-8	? feet	anart
	HUIIDGE	alla	CALCIIL	OI IIIIG.	$\mathbf{v}$	, 1001	avait

- 2. **Presence of water flow patterns:** very discontinuous, hard to observe due to high gravel and rock cover.
- 3. **Number and height of erosional pedestals or terracettes:** Erosional pedestals are very infrequent. Accumulated pedestals are 0-1/2 inch high. Terracettes are only formed by rock fragments.

4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): 1-2% (Low values due to high rock and gravel cover). 2-3% woody litter, 95-97% rock fragment cover.
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): Most litter size classes stay in place due to high rock and gravel cover.
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): No slake test done. Expect ratings of 1-3 in perennial plant interspaces, 4-5 under shrub canopies.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): channery; thickness to 2 inches.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: 8-10% canopy: 85% half shrubs, 11% shrubs, 4% trees. Lichens and moss cover 10-15% of soil surface. Cover is well dispersed throughout site.
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None
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: subshrubs > annuals > shrubs > trees
	Sub-dominant:
	Other:
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): 30% mortality of half shrubs ad shrubs. 100% mortality of perennial grasses and forbs.
14.	Average percent litter cover (%) and depth ( in):
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): 300 lbs/ac unfavorable precipitation, 500 lbs/ac normal precipitation, 800 lbs/ac favorable precipitation.
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: Sahara mustard, Lonon rocket, buffelgrass, red brome, filaree
17.	Perennial plant reproductive capability: No impaired for shrubs; drought impaired for perennial grasses and forbs.