

## **Ecological site R053BY017ND Very Shallow**

Last updated: 1/11/2024 Accessed: 05/10/2024

## 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	01/17/2012
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Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

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

no	dicators
1.	<b>Number and extent of rills:</b> Due to the wide slope range associated with this site, the number and extent of rills will vary from none on sites with slopes of < 15% to occasionally present but short (12 to 20 inches) on slopes > 15%.
2.	<b>Presence of water flow patterns:</b> Due to the wide slope range associated with this site, water flow patterns will vary from barely observable on sites with slopes of < 15% from broken and irregular in appearance on slopes > 15%.
3.	<b>Number and height of erosional pedestals or terracettes:</b> Not evident on slopes < 15%. Erosional pedestals will be present with terracettes present at debris dams on slopes >15%.
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): 20 to 35%.
5.	Number of gullies and erosion associated with gullies: None.

rface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of soil aggregate stability ratings should typically be 5 or greater. Soil surface fragments will typically retain endefinitely when dipped in distilled water.  If ace structure and SOM content (include type of structure and A-horizon color and thickness): Use soil escription for depth, color and structure of A horizon/surface layer.  If community phase composition (relative proportion of different functional groups) and spatial action on infiltration and runoff: Combination of shallow and deep rooted species (mid rhizomatous and tufted all cool- and warm-season grasses) with fine and coarse roots positively influences infiltration.			
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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):			
nt: Mid cool-season bunchgrasses = short warm-season grasses			
minant: Grass-likes > mid warm-season grasses			
/lid cool-season rhizomatous = forbs > shrubs > short cool-season grasses			
eal: Due to differing root structure and distribution, Kentucky bluegrass and smooth bromegrass do not fit into see plant community F/S groups.			
t of plant mortality and decadence (include which functional groups are expected to show mortality or nce): None.			
e percent litter cover (%) and depth ( in): Plant litter is in contact with			
e			

	Perennial plant reproductive capability: All species exhibit high vigor relative to site limitations and climatic condition.					
D0 г	Do not rate based solely on seed production. Perennial grasses should have vigorous rhizomes or tillers.					

become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not