

## **Ecological site R058CY092ND Wet Meadow**

Last updated: 10/31/2018 Accessed: 04/27/2024

## 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.

Author(s)/participant(s)	Chris Tecklenburg Revision of this reference sheet derived from MLRA 54 Wet Meadow on 9/25/2017.  J. Printz, S. Boltz, R. Kilian, D. Froemke, M. Rasmusson original authors 5/24/2017.
Contact for lead author	Mark Hayek, USDA-NRCS, State Rangeland Management Specialist, Bismarck, ND. Mark.Hayek@nd.usda.gov
Date	05/24/2011
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators		
1.	Number and extent of rills: Rills should not be present.	
2.	Presence of water flow patterns: None.	
3.	Number and height of erosional pedestals or terracettes: Non-existent.	
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground is zero to trace.	
5.	Number of gullies and erosion associated with gullies: Active gullies should not be present.	
6.	Extent of wind scoured, blowouts and/or depositional areas: None.	

7.	Amount of litter movement (describe size and distance expected to travel): Little to no plant litter movement. Plant litter remains in place and is not moved by erosional forces.
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Plant cover and litter is at 95% or greater of soil surface and maintains soil surface integrity. Stability class anticipated to be 5 or greater.
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Use soil series description for depth, color, and structure of A-horizon.
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: High grass canopy and basal cover and small gaps between plants should reduce raindrop impact and slow overland flow, providing increased time for infiltration to occur. Healthy, deep-rooted native grasses and grass-likes enhance infiltration and reduce runoff.
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): No compaction layer should be evident.
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: Tall, rhizomatous warm-season grasses = grass-likes >
	Sub-dominant: None
	Other: mid, cool-season rhizomatous grasses > annual grasses > forbs > short, cool-season grasses
	Additional: Due to differing root structure and distribution, Kentucky bluegrass and smooth bromegrass do not fit into Reference Plant Community F/S groups.
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Very low.
14.	Average percent litter cover (%) and depth ( in): Litter cover is in contact with soil surface.
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): Representative value = 3600 lbs/ac with a range of 3200 lbs/ac to 4000 lbs/ac (air dry weight) depending upon growing conditions.
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: State and local noxious, quackgrass, creeping foxtail, reed canarygrass, smooth bromegrass, Kentucky bluegrass
17.	Perennial plant reproductive capability: All species are capable of reproducing.