

Ecological site R010XY005OR Loamy Bottom

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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.

Author(s)/participant(s)	Jeff Repp, Bruce Frannsen			
Contact for lead author	State Rangeland Management Specialist for NRCS - Oregon.			
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Approved by	Bob Gillaspy			
Approval date				
Composition (Indicators 10 and 12) based on	Annual Production			

Indicators

1.	Number and extent of rills: None, moderate sheet & rill erosion hazard					
2.	Presence of water flow patterns: Occasional flooding with seasonal high water table					
3.	Number and height of erosional pedestals or terracettes: None					
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): 0-10%					
5.	Number of gullies and erosion associated with gullies: None					

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

7.	Amount of litter movement (describe size and distance expected to travel): Fine to moderately coarse - limited movement
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Moderately to significantly resistant to erosion: aggregate stability = 3-6
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Granular to sub-angular blocky structure; Dry color value 4-5; 2-12" thickness; low to high OM (1-6%)
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Significant ground cover (90-100%) and very gentle slopes (0-3%) effectively limit rainfall impact and overland flow
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: Basin wildrye > other grasses
	Sub-dominant: willow > basin big sagebrush
	Other: other shrubs > forbs
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Normal decadence and mortality expected
14.	Average percent litter cover (%) and depth (in):
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-

Potential invasive (including noxious) species (native and non-native). List species which BOTH characterized 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							
invasive pla	ninant for only on nts. Note that un ogical site: Peren d quackgrass inva	like other indicanial forb and bru	ators, we are	describing what increase with d	t is NOT expec eterioration of pl	ted in the referer ant community. K	nce
Perennial pl	ant reproductive	capability: All s	species should	be capable of re	eproducing annu	ıally	