

Ecological site R021XY310OR SHALLOW NORTH 14-18 PZ

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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		
Contact for lead author	Oregon NRCS State Rangeland Management Specialist		
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Approved by	Bob Gillaspy		
Approval date			
Composition (Indicators 10 and 12) based on	Annual Production		

Indicators

py are not

8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): Moderately resistant to erosion: aggregate stability = 4-6
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Very shallow to deep (limited by a claypan or subsurface layer with >50% rock fragments), well drained gravelly or stony loams or cobbly clay loams: Low OM (1-2%)
0.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Moderate vegetative cover (55-70%) provides some protection from run off; slopes range from 30-70%; infiltration is slow
1.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): None
2.	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: Idaho fescue > Low sagebrush > Bluebunch wheatgrass > Antelope bitterbrush = Sandberg bluegrass = dominant forbs > other grasses = other forbs = other shrubs
	Sub-dominant:
	Other:
	Additional:
3.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): Normal decadence and mortality expected
4.	Average percent litter cover (%) and depth (in):
5.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): Favorable: 1200, Normal: 900, Unfavorable: 500 lbs/acre/year at high RSI (HCPC)
6.	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: Perennial brush species and forbs will increase with deterioration of plant community. Western Juniper may invade the site. Cheatgrass and Medusahead invade sites that have lost deep rooted perennial grass

functional groups.

Perennial plant reproductive capability: All species should be capable of reproducing annually					