

Ecological site R021XY414OR PINE/SEDGE-FESCUE 16-24 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.

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Approved by			
Approval date			
Composition (Indicators 10 and 12) based on	Annual Production		

Indicators

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1.	Number and extent of rills: None, moderate sheet & rill erosion hazard
2.	Presence of water flow patterns: None to some on steeper slopes (to 60%)
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): <1%
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 - limited movement

8.	3. Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a rar values): Moderately to significantly resistant to erosion: aggregate stability = 4-6					
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Moderately deep to deep, well drained loams, gravelly loams and stony loams (15-50% rock fragments in the subsoil): Moderate to High OM (2-5%)					
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: Significant vegetative cover of over 125% and moderate slopes (1-45%) effectively limit rainfall impact and overland flow; infiltration is moderate to slow					
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: Idaho fescue > Ross sedge > Ponderosa Pine > other dominant forbs > other dominant grasses = other dominant shrubs > other grasses = other shrubs > White Fir					
	Sub-dominant:					
	Other:					
	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-production): Favorable: 1000, Normal: 800, Unfavorable: 600 lbs/acre/year at high RSI (HCPC)					
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: Perennial brush species will increase with deterioration of plant community. Western Juniper					

and Ponderosa Pine readily increase on the site (can be converted to woodland w/out fire). Cheatgrass and

Medusahead invade sites that have lost deep rooted perennial grass functional groups.

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