

Ecological site EX043B23C172 Stony Upland (StU) Absaroka Subalpine Zone

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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	E. Bainter		
Approval date			
Composition (Indicators 10 and 12) based on	Annual Production		

Indicators

expected to move.

	Talloutor's				
1.	Number and extent of rills: Rare to nonexistent. Where present, short and widely spaced.				
2.	Presence of water flow patterns: Barely observable.				
3.	Number and height of erosional pedestals or terracettes: Rare to nonexistent.				
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): Bare ground can range from 0-25%.				
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: Rare to nonexistent.				
7.	Amount of litter movement (describe size and distance expected to travel): Herbaceous and large woody litter not				

Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): Soil days limited for this site. Soil OM of 4-16% is expected. Effect of community phase composition (relative proportion of different functional groups) and spatial listribution on infiltration and runoff: Plant community consists of 55-80% grasses, 10% forbs, and 10-35% shrubs evenly distributed plant canopy (50-75%) and litter plus moderate infiltration rates result in minimal runoff. Basal cover ypically less than 15% and marginally affects runoff on this site. Surface rock fragments of 20-50% provide stability to me site, but reduce infiltration.				
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resence and thickness of compaction layer (usually none; describe soil profile features which may be				
nistaken for compaction on this site): None.				
Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or life foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):				
Dominant: Mid-size, cool season bunchgrasses				
Sub-dominant: perennial shrubs perennial forbs				
Other: cool season rhizomatous grasses=short cool season bunchgrasses				
additional:				
Amount of plant mortality and decadence (include which functional groups are expected to show mortality or lecadence): Minimal decadence, typically associated with shrub component.				
Average percent litter cover (%) and depth (in): Litter ranges from 15-20% of total canopy measurement with tota tter (including beneath the plant canopy) from 40-60% expected. Herbaceous litter depth typically ranges from 3-10n Voody litter can be up to a couple inches (4-6 cm).				
expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): English: 750-1200 lb/ac (1000 lb/ac average); Metric 840-1344 kg/ha (1120 kg/ha average).				
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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: Bare ground greater than 40% is the most common indicator of a threshold being crossed. Rabbitbrush, Sandberg bluegrass, buckwheat, yarrow, and phlox are common increasers. Annual weeds such as cheatgrass and mustards are common invasive species in disturbed sites.

17. P	17. Perennial plant reproductive capability: All species are capable of reproducing, except in extreme drought years.							
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