

# Rangeland Productivity and Plant Composition

Douglas-Plateau Area, Colorado, Parts of Garfield and Mesa Counties

Map symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/Ac	Lb/Ac	Lb/Ac		Pct
44: Happle	Rolling Loam	1,000	800	500	Western wheatgrass	20
					Wyoming big sagebrush	15
					Bottlebrush squirreltail	10
					Sandberg bluegrass	10
					Indian ricegrass	5
					Needleandthread	5
					Other perennial forbs	5
					Prairie Junegrass	5
					Yellow rabbitbrush	5

## Map Unit Description

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### 44 Happle very channery sandy loam, 3 to 12 percent slopes

#### Setting

Elevation: 5200 to 6000 feet  
Mean annual precipitation: 12 to 15 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 100 to 150 days

#### Composition

Happle and similar soils: 80 percent

#### Description of Happle

##### Setting

Landform: Alluvial fans  
Down-slope shape: Convex  
Across-slope shape: Linear  
Parent material: Green river formation alluvium derived from shale

##### Properties and Qualities

Slope: 3 to 12 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 3.4 inches)

##### Interpretive Groups

Land capability (non irrigated): 4e  
Ecological site: Rolling Loam (R034XY298CO)

##### Typical Profile

0 to 7 inches: very channery sandy loam  
7 to 14 inches: very channery sandy loam  
14 to 32 inches: very channery sandy clay loam  
32 to 60 inches: extremely channery sandy loam