

## Map Unit Description

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

### 47 Hesperus-Empedrado, moist-Pagoda complex 5 to 35 percent slopes

#### Setting

Elevation: 6200 to 8500 feet  
Mean annual precipitation: 18 to 20 inches  
Mean annual air temperature: 42 to 44 degrees F  
Frost-free period: 85 to 100 days

#### Composition

Hesperus and similar soils: 35 percent  
Empedrado, moist, and similar soils: 30 percent  
Pagoda and similar soils: 20 percent

#### Description of Hesperus

##### Setting

Landform: Mountainsides  
Down-slope shape: Concave  
Across-slope shape: Linear  
Parent material: Residuum weathered from sandstone and shale

##### Properties and Qualities

Slope: 5 to 35 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 0 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 11.2 inches)

##### Interpretive Groups

Land capability (non irrigated): 6e  
Ecological site: Brushy Loam (R048AY238CO)

##### Typical Profile

0 to 7 inches: loam  
7 to 60 inches: clay loam, loam

#### Description of Empedrado, moist

##### Setting

Landform: Benches  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Colluvium derived from sandstone and shale and/or residuum weathered from sandstone and shale

##### Properties and Qualities

Slope: 5 to 35 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 1.98 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 9.7 inches)

##### Interpretive Groups

Land capability (non irrigated): 6e  
Ecological site: Brushy Loam (R048AY238CO)

##### Typical Profile

0 to 10 inches: loam  
10 to 21 inches: clay loam  
21 to 28 inches: gravelly sandy clay loam  
28 to 60 inches: loam

## Map Unit Description

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

### Description of Pagoda

#### Setting

Landform: Benches, mountains

Down-slope shape: Concave, linear

Across-slope shape: Linear

Parent material: Colluvium derived from shale

#### Properties and Qualities

Slope: 5 to 35 percent

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate maximum: 15 percent

Gypsum maximum: 0 percent

Available water capacity: High (about 10.9 inches)

#### Interpretive Groups

Land capability (non irrigated): 6e

Ecological site: Brushy Loam (R048AY238CO)

#### Typical Profile

0 to 6 inches: clay loam

6 to 17 inches: clay loam

17 to 27 inches: clay loam, clay

27 to 60 inches: clay loam, clay

# 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		
47:						
Hesperus	Brushy Loam	3,000	2,000	1,500	Gambel oak	25
					Big bluegrass	10
					Elk sedge	10
					Nodding brome	10
					Arizona fescue	5
					Mountain snowberry	5
					Needleandthread	5
					Saskatoon serviceberry	5
					Western wheatgrass	5
Empedrado, moist	Brushy Loam	3,000	2,000	1,500	Big bluegrass	15
					Gambel oak	15
					Elk sedge	10
					Mountain brome	10
					Saskatoon serviceberry	10
					Slender wheatgrass	7
					Mountain snowberry	5
					Muttongrass	5
					Needleandthread	5
					Western wheatgrass	5

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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
47: Pagoda	Brushy Loam	3,000	2,000	1,500	Gambel oak	15
					Mountain brome	10
					Saskatoon serviceberry	10
					Elk sedge	5
					Letterman's needlegrass	5
					Mountain snowberry	5
					Nodding brome	5
					Slender wheatgrass	5