

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

### 48—Hesperus-Empedrado, moist-Pagoda complex, 35 to 55 percent slopes

#### Map Unit Setting

*National map unit symbol:* jnvx  
*Elevation:* 6,200 to 8,500 feet  
*Mean annual precipitation:* 18 to 20 inches  
*Mean annual air temperature:* 42 to 44 degrees F  
*Frost-free period:* 85 to 100 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Hesperus and similar soils:* 35 percent  
*Empedrado, moist, and similar soils:* 30 percent  
*Pagoda and similar soils:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Hesperus

##### Setting

*Landform:* Mountains  
*Landform position (three-dimensional):* Upper third of mountainflank  
*Down-slope shape:* Concave  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from sandstone and shale

##### Typical profile

*H1 - 0 to 7 inches:* loam  
*H2 - 7 to 60 inches:* clay loam, loam  
*H2 - 7 to 60 inches:*

##### Properties and qualities

*Slope:* 35 to 55 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water storage in profile:* Very high (about 21.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* C  
*Ecological site:* Brushy loam (R048AY238CO)

## 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

### Typical profile

*H1 - 0 to 10 inches:* loam

*H2 - 10 to 21 inches:* clay loam

*H3 - 21 to 28 inches:* gravelly sandy clay loam

*H4 - 28 to 60 inches:* loam

### Properties and qualities

*Slope:* 35 to 55 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* High

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.57 to 1.98 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 10 percent

*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Available water storage in profile:* High (about 9.7 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* B

*Ecological site:* Brushy loam (R048AY238CO)

## Description of Pagoda

### Setting

*Landform:* Mountains, benches

*Landform position (three-dimensional):* Mountaintop

*Down-slope shape:* Concave, linear

*Across-slope shape:* Linear

*Parent material:* Colluvium derived from shale

### Typical profile

*H1 - 0 to 6 inches:* clay loam

*H2 - 6 to 17 inches:* clay loam

*H3 - 17 to 27 inches:* clay loam, clay

*H3 - 17 to 27 inches:* clay loam, clay

*H4 - 27 to 60 inches:*

*H4 - 27 to 60 inches:*

### Properties and qualities

*Slope:* 35 to 55 percent

*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 15 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* Very high (about 18.7 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* C  
*Ecological site:* Brushy loam (R048AY238CO)

## Data Source Information

Soil Survey Area: Douglas-Plateau Area, Colorado, Parts of Garfield and Mesa  
Counties  
Survey Area Data: Version 7, Sep 22, 2014