

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

53—Pagoda-Hesperus complex, 12 to 40 percent slopes

Map Unit Setting

National map unit symbol: jnw3

Elevation: 7,400 to 8,000 feet

Mean annual precipitation: 18 to 22 inches

Frost-free period: 75 to 85 days

Farmland classification: Not prime farmland

Map Unit Composition

Pagoda and similar soils: 50 percent

Hesperus and similar soils: 20 percent

Minor components: 30 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pagoda

Setting

Landform: Mudflows

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Alluvium derived from shale and/or colluvium derived from shale

Typical profile

A - 0 to 6 inches: clay loam

Bt1 - 6 to 17 inches: clay loam

Bt2 - 17 to 27 inches: clay loam, clay

Bt2 - 17 to 27 inches: clay loam, clay

Bk - 27 to 60 inches:

Bk - 27 to 60 inches:

Properties and qualities

Slope: 12 to 40 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 to very slightly saline (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)
Hydric soil rating: No

Description of Hesperus

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear

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: 12 to 40 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)
Hydric soil rating: No

Minor Components

Other soils

Percent of map unit: 30 percent
Hydric soil rating: No

Data Source Information

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

Survey Area Data: Version 9, Sep 23, 2016