

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

20—Cahona-Pulpit complex, 3 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1xyk
Elevation: 6,200 to 7,400 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 120 days
Farmland classification: Not prime farmland

Map Unit Composition

Cahona and similar soils: 50 percent
Pulpit and similar soils: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cahona

Setting

Landform: Hills, mesas
Landform position (three-dimensional): Base slope, side slope, crest
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits derived from sandstone

Typical profile

H1 - 0 to 5 inches: loam
H2 - 5 to 25 inches: clay loam
H3 - 25 to 60 inches: loam

Properties and qualities

Slope: 3 to 9 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 (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 50 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 4.0
Available water storage in profile: High (about 11.0 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: Loamy foothills (R036XY284CO)

Description of Pulpit

Setting

Landform: Hills, mesas

Landform position (three-dimensional): Base slope, side slope, crest

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Typical profile

H1 - 0 to 10 inches: loam

H2 - 10 to 20 inches: clay loam

H3 - 20 to 36 inches: fine sandy loam

H4 - 36 to 46 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 9 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 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: 10 percent

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

Available water storage in profile: Moderate (about 6.4 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: Loamy foothills (R036XY284CO)

Minor Components

Wetherill

Percent of map unit: 10 percent

Sharps

Percent of map unit: 5 percent

42—Gladel-Pulpit complex, 3 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1xzk

Elevation: 6,200 to 7,400 feet

Mean annual precipitation: 13 to 16 inches

Mean annual air temperature: 46 to 50 degrees F

Custom Soil Resource Report

Frost-free period: 100 to 120 days

Farmland classification: Not prime farmland

Map Unit Composition

Gladel and similar soils: 45 percent

Pulpit and similar soils: 35 percent

Minor components: 20 percent

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

Description of Gladel

Setting

Landform: Hills, mesas

Landform position (three-dimensional): Base slope, side slope, crest

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits over residuum weathered from sandstone

Typical profile

H1 - 0 to 5 inches: flaggy fine sandy loam

H2 - 5 to 10 inches: flaggy fine sandy loam

H3 - 10 to 15 inches: flaggy fine sandy loam

H4 - 15 to 25 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 9 percent

Depth to restrictive feature: 12 to 20 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 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 low (about 1.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: Pinyon-juniper (R035XY909CO)

Description of Pulpit

Setting

Landform: Hills, mesas

Landform position (three-dimensional): Crest, side slope, base slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Typical profile

H1 - 0 to 10 inches: loam

H2 - 10 to 20 inches: loam

H3 - 20 to 36 inches: loam

Custom Soil Resource Report

H4 - 36 to 46 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 9 percent

Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Natural drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 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: 10 percent

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

Available water storage in profile: Moderate (about 6.4 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: Loamy foothills (R036XY284CO)

Minor Components

Rock outcrop

Percent of map unit: 10 percent

Sharps

Percent of map unit: 5 percent

Landform: Hills, mesas

Wetherill

Percent of map unit: 5 percent

Landform: Hills, mesas