

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

21—Cahona-Sharps-Wetherill complex, 2 to 6 percent slopes

Map Unit Setting

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

Map Unit Composition

Cahona and similar soils: 35 percent

Sharps and similar soils: 30 percent

Wetherill and similar soils: 20 percent

Minor components: 3 percent

Description of Cahona

Setting

Landform: Hills, mesas

Landform position (three-dimensional): Side slope, crest, base slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

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 content: 50 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water capacity: High (about 11.0 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 3e

Land capability (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Loamy Foothills (R036XY284CO)

Typical profile

0 to 5 inches: Loam

5 to 25 inches: Clay loam

25 to 60 inches: Loam

Description of Sharps

Setting

Landform: Mesas, hills

Landform position (three-dimensional): Side slope, crest, base slope

Custom Soil Resource Report

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 2 to 6 percent

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

Drainage class: Well drained

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 content: 15 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: Low (about 4.5 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 3e

Land capability (nonirrigated): 3e

Hydrologic Soil Group: C

Ecological site: Loamy Foothills (R036XY284CO)

Typical profile

0 to 9 inches: Loam

9 to 19 inches: Clay loam

19 to 30 inches: Loam

30 to 40 inches: Weathered bedrock

Description of Wetherill

Setting

Landform: Hills, mesas

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

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

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 content: 30 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water capacity: High (about 11.0 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 3e

Land capability (nonirrigated): 3e

Custom Soil Resource Report

Hydrologic Soil Group: B

Ecological site: Loamy Foothills (R036XY284CO)

Typical profile

0 to 3 inches: Loam

3 to 7 inches: Loam

7 to 48 inches: Loam

48 to 60 inches: Loam

Minor Components

Aquents

Percent of map unit: 3 percent

Landform: Drainageways

143—Wetherill loam, 1 to 3 percent slopes

Map Unit Setting

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

Map Unit Composition

Wetherill and similar soils: 90 percent

Minor components: 1 percent

Description of Wetherill

Setting

Landform: Hills, mesas

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

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

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 content: 30 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Custom Soil Resource Report

Available water capacity: High (about 11.0 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated

Land capability classification (irrigated): 3c

Land capability (nonirrigated): 3c

Hydrologic Soil Group: B

Ecological site: Loamy Foothills (R036XY284CO)

Typical profile

0 to 3 inches: Loam

3 to 7 inches: Loam

7 to 48 inches: Clay loam

48 to 60 inches: Loam

Minor Components

Aquents

Percent of map unit: 1 percent

Landform: Drainageways