

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

42—Gladel-Pulpit complex, 3 to 9 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

Gladel and similar soils: 45 percent

Pulpit and similar soils: 35 percent

Minor components: 20 percent

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

Properties and qualities

Slope: 3 to 9 percent

Depth to restrictive feature: 12 to 20 inches to lithic 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: Very low (about 1.6 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 6s

Hydrologic Soil Group: D

Ecological site: PINYON-JUNIPER (R035XY909CO)

Typical profile

0 to 5 inches: Flaggy fine sandy loam

5 to 10 inches: Flaggy fine sandy loam

10 to 15 inches: Flaggy fine sandy loam

15 to 25 inches: Unweathered bedrock

Description of Pulpit

Setting

Landform: Hills, mesas

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

Down-slope shape: Linear

Across-slope shape: Linear

Custom Soil Resource Report

Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 3 to 9 percent

Depth to restrictive feature: 20 to 40 inches to lithic 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: 10 percent

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

Available water capacity: Moderate (about 6.4 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 4e

Land capability (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: Loamy Foothills (R036XY284CO)

Typical profile

0 to 10 inches: Loam

10 to 20 inches: Loam

20 to 36 inches: Loam

36 to 46 inches: Unweathered bedrock

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

144—Wetherill loam, 3 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

Wetherill and similar soils: 85 percent

Custom Soil Resource Report

Minor components: 15 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: 3 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: Prime farmland if irrigated

Land capability classification (irrigated): 3e

Land capability (nonirrigated): 3e

Hydrologic Soil Group: C

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

Pulpit

Percent of map unit: 5 percent

Sharps

Percent of map unit: 5 percent

Aquents

Percent of map unit: 3 percent

Landform: Drainageways

Ackmen

Percent of map unit: 2 percent