

Map Unit Description

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

Map Unit 42 (Gladel-Pulpit complex, 3 to 9 percent slopes)

Setting

Elevation: 6200 to 7400 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 120 days

Composition

Gladel and similar soils: 45 percent
Pulpit and similar soils: 35 percent

Description of Gladel

Setting

Landform: Hills, mesas
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits over residuum weathered from sandstone
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 or moderately high (0.00 to 0.20 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 1.6 inches)

Properties and Qualities

Interpretive Groups

Land capability (non-irrigated): 6s
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: Mesas, hills
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits derived from sandstone
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 or moderately high (0.00 to 0.20 in/hr)

Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 6.4 inches)

Properties and Qualities

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non-irrigated): 4e
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

Map Unit Description

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

Map Unit 145 (Wetherill loam, 6 to 12 percent slopes)

Setting

Elevation: 6200 to 7400 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 120 days

Composition

Wetherill and similar soils: 80 percent
Minor components: 1 percent

Description of Wetherill

Setting

Landform: Hills, mesas
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits derived from sandstone
Slope: 6 to 12 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 30 percent
Gypsum maximum: 0 percent
Sodium adsorption ratio maximum: 4.0
Available water capacity: High (about 11.0 inches)

Properties and Qualities

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non-irrigated): 4e
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

Aquents

Percent of map unit: 1 percent
Landform: Drainage ways