

Map Unit Description

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

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

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 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)

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

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 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)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 4e
Ecological site: Loamy Foothills (R036XY284CO)

Typical Profile

0 to 10 inches: loam

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10 to 20 inches: loam
20 to 36 inches: loam
36 to 46 inches: unweathered bedrock