

Archuleta County Area, Colorado

XE6-E—Payan-Rock outcrop complex, 12 to 65 percent slopes

Map Unit Setting

National map unit symbol: ss2n

Elevation: 6,000 to 7,500 feet

Mean annual precipitation: 13 to 16 inches

Mean annual air temperature: 45 to 50 degrees F

Frost-free period: 100 to 130 days

Farmland classification: Not prime farmland

Map Unit Composition

Payan and similar soils: 55 percent

Rock outcrop: 30 percent

Minor components: 15 percent

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

Description of Payan

Setting

Landform: Mountain slopes, ridges, hills

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

Down-slope shape: Linear

Across-slope shape: Convex, concave, linear

Parent material: Slope alluvium derived from shale and sandstone

Typical profile

A - 0 to 5 inches: cobbly sandy clay loam

Bw - 5 to 12 inches: clay loam

C - 12 to 18 inches: clay loam

Cr - 18 to 26 inches: weathered bedrock

Properties and qualities

Slope: 12 to 65 percent

Depth to restrictive feature: 10 to 20 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Very low (about 2.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: Mountain Pinyon (F036XY926CO)

Hydric soil rating: No

Description of Rock Outcrop

Setting

Landform: Mountain slopes, hills, ridges

Landform position (three-dimensional): Free face, crest, free face, side slope, nose slope

Down-slope shape: Linear

Across-slope shape: Linear, concave, convex

Typical profile

Cr - 0 to 60 inches: unweathered bedrock

Properties and qualities

Slope: 12 to 65 percent

Depth to restrictive feature: 0 inches to paralithic bedrock

Natural drainage class: Excessively drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Available water storage in profile: Very low (about 0.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Bodot

Percent of map unit: 10 percent

Landform: Hills

Landform position (three-dimensional): Side slope

Ecological site: Clayey Foothills (R036XY289CO)

Hydric soil rating: No

Arboles

Percent of map unit: 5 percent

Landform: Pediments

Landform position (three-dimensional): Base slope

Ecological site: Clayey Foothills (R036XY289CO)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Archuleta County Area, Colorado

Survey Area Data: Version 9, Sep 28, 2015