

Archuleta County Area, Colorado

E6-CE—Payan cobbly sandy clay loam, 3 to 25 percent slopes

Map Unit Setting

National map unit symbol: vqq9

Elevation: 6,000 to 7,000 feet

Mean annual precipitation: 13 to 16 inches

Mean annual air temperature: 45 to 50 degrees F

Frost-free period: 110 to 130 days

Farmland classification: Not prime farmland

Map Unit Composition

Payan and similar soils: 80 percent

Minor components: 20 percent

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

Description of Payan

Setting

Landform: Mountain slopes, hills

Landform position (two-dimensional): Shoulder, summit, backslope

Landform position (three-dimensional): Mountainflank, head slope, side slope, nose slope

Down-slope shape: Linear, convex

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: 3 to 25 percent

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

Natural drainage class: Well drained

Runoff class: 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 2.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: D

Ecological site: Pinus edulis-Juniperus osteosperma/Artemisia tridentata ssp. vaseyana-Cercocarpus montanus/Poa fendleriana-Pleuraphis jamesii (F036XY927CO)
Hydric soil rating: No

Minor Components

Bodot

Percent of map unit: 10 percent
Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Base slope
Ecological site: Clayey Foothills (R036XY289CO)
Hydric soil rating: No

Arboles

Percent of map unit: 4 percent
Landform: Hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Ecological site: Clayey Foothills (R036XY289CO)
Hydric soil rating: No

Sili

Percent of map unit: 4 percent
Landform: Hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Ecological site: Clayey Foothills (R036XY289CO)
Hydric soil rating: No

Rock outcrop

Percent of map unit: 2 percent
Landform: Hills, mountain slopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Nose slope, free face
Hydric soil rating: No

Data Source Information

Soil Survey Area: Archuleta County Area, Colorado
Survey Area Data: Version 9, Sep 28, 2015