

Archuleta County Area, Colorado

XT0-E—Bondad-Xeto complex, 12 to 60 percent slopes

Map Unit Setting

National map unit symbol: ssj1
Elevation: 6,000 to 6,700 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 110 to 130 days
Farmland classification: Not prime farmland

Map Unit Composition

Xeto and similar soils: 45 percent
Bondad and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Xeto

Setting

Landform: Paleoterraces, hills
Landform position (three-dimensional): Side slope, riser
Down-slope shape: Linear
Across-slope shape: Linear, concave, convex
Parent material: Old alluvium derived from mixed sources but mostly from sandstone

Typical profile

A - 0 to 5 inches: extremely cobbly loam
Bk1 - 5 to 20 inches: extremely cobbly loamy sand
Bk2 - 20 to 31 inches: extremely cobbly sand
2Cr - 31 to 41 inches: bedrock

Properties and qualities

Slope: 12 to 60 percent
Depth to restrictive feature: 20 to 40 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
Calcium carbonate, maximum in profile: 25 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: C

Ecological site: Pinus edulis-juniperus osteosperma/artemisia tridentata ssp. vaseyana-cercocarpus montanus/poa fendleriana-pleuraphis jamesii (F036XY927CO)

Description of Bondad

Setting

Landform: Paleoterraces, hills

Landform position (three-dimensional): Side slope, riser

Down-slope shape: Linear

Across-slope shape: Linear, concave, convex

Parent material: Old alluvium derived from mixed sources but mostly from sandstone

Typical profile

A - 0 to 6 inches: very cobbly loam

Bk1 - 6 to 26 inches: extremely cobbly sandy loam

Bk2 - 26 to 46 inches: extremely cobbly sandy loam

Bk3 - 46 to 72 inches: extremely cobbly loamy sand

Properties and qualities

Slope: 12 to 60 percent

Percent of area covered with surface fragments: 10.0 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 30 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: Pinus edulis-juniperus osteosperma/artemisia tridentata ssp. vaseyana-cercocarpus montanus/poa fendleriana-pleuraphis jamesii (F036XY927CO)

Data Source Information

Soil Survey Area: Archuleta County Area, Colorado

Survey Area Data: Version 8, Sep 22, 2014