

Kiowa County, Colorado

32—Singerton-Pultney complex, 1 to 10 percent slopes

Map Unit Setting

Elevation: 3,500 to 5,000 feet
Mean annual precipitation: 12 to 14 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 140 to 170 days

Map Unit Composition

Singerton and similar soils: 45 percent
Pultney and similar soils: 35 percent
Minor components: 20 percent

Description of Singerton

Setting

Landform: Ridges, hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from shale

Properties and qualities

Slope: 1 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water
(Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 45 percent
Gypsum, maximum content: 15 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 8.0 mmhos/cm)
Available water capacity: Moderate (about 6.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: Loamy Plains (R069XY006CO)
Other vegetative classification: LOAMY PLAINS (069XY006CO_1)

Typical profile

0 to 6 inches: Loam
6 to 60 inches: Clay loam

Description of Pultney

Setting

Landform: Ridges, hills

Landform position (three-dimensional): Head slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Slope alluvium over residuum weathered from
gypsiferous shale

Properties and qualities

Slope: 2 to 10 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 5 percent

Maximum salinity: Very slightly saline to moderately saline (4.0 to
16.0 mmhos/cm)

Available water capacity: Low (about 3.8 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 6e

Hydrologic Soil Group: C

Ecological site: Alkaline Plains (R069XY047CO)

Other vegetative classification: ALKALINE PLAINS
(069XY047CO_1)

Typical profile

0 to 6 inches: Clay loam

6 to 25 inches: Clay loam

25 to 29 inches: Weathered bedrock

Minor Components

Other soils

Percent of map unit: 20 percent

Data Source Information

Soil Survey Area: Kiowa County, Colorado

Survey Area Data: Version 10, Dec 23, 2013