

Kiowa County, Colorado

24—Manzanola silty clay loam, saline, 0 to 2 percent slopes

Map Unit Setting

Elevation: 3,900 to 6,000 feet
Mean annual precipitation: 12 to 14 inches
Mean annual air temperature: 48 to 54 degrees F
Frost-free period: 130 to 170 days

Map Unit Composition

Manzanola and similar soils: 90 percent
Minor components: 10 percent

Description of Manzanola

Setting

Landform: Terraces, drainageways, fan remnants, interfluves
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Side slope, tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from shale

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water
(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 14 percent
Gypsum, maximum content: 3 percent
Maximum salinity: Slightly saline to moderately saline (8.0 to 15.0 mmhos/cm)
Sodium adsorption ratio, maximum: 13.0
Available water capacity: Very high (about 12.1 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated
Land capability classification (irrigated): 3e
Land capability (nonirrigated): 4c
Hydrologic Soil Group: C
Ecological site: Saline Overflow (R069XY037CO)
Other vegetative classification: Saline Overflow (069XY037CO_1)

Typical profile

0 to 4 inches: Silty clay loam
4 to 11 inches: Silty clay loam
11 to 26 inches: Silty clay loam

26 to 38 inches: Silty clay loam

38 to 79 inches: Silty clay loam

Minor Components

Haversid

Percent of map unit: 5 percent

Landform: Drainageways, terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: Saline Overflow (R069XY037CO)

Other vegetative classification: Unnamed (G069XW017CO)

Aguilar

Percent of map unit: 5 percent

Landform: Fan remnants

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: Salt Flat (R069XY033CO)

Other vegetative classification: Salt Flat #33 (069AY033CO_2),
Unnamed (G069XW027CO)

Data Source Information

Soil Survey Area: Kiowa County, Colorado

Survey Area Data: Version 10, Dec 23, 2013