

Washington County, Colorado

78—Weld silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2x0hx

Elevation: 3,600 to 6,000 feet

Mean annual precipitation: 12 to 18 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 115 to 155 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Weld and similar soils: 80 percent

Minor components: 20 percent

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

Description of Weld

Setting

Landform: Interfluves

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loess

Typical profile

Ap - 0 to 3 inches: silt loam

Bt1 - 3 to 11 inches: silty clay

Bt2 - 11 to 15 inches: silty clay

Btk - 15 to 21 inches: silty clay

Bk - 21 to 31 inches: silt loam

C - 31 to 80 inches: silt loam

Properties and qualities

Slope: 0 to 3 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):

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 in profile: 14 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 5.0

Available water storage in profile: High (about 11.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 3c

Hydrologic Soil Group: C

Ecological site: Loamy Plains (R067BY002CO)

Hydric soil rating: No

Minor Components

Colby

Percent of map unit: 7 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: Loamy Plains (R067BY002CO)

Hydric soil rating: No

Keith

Percent of map unit: 5 percent

Landform: Interfluves

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: Loamy Plains (R067BY002CO)

Hydric soil rating: No

Adena

Percent of map unit: 5 percent

Landform: Interfluves

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Ecological site: Loamy Plains (R067BY002CO)

Hydric soil rating: No

Rago, rarely flooded

Percent of map unit: 2 percent

Landform: Drainageways

Down-slope shape: Linear

Across-slope shape: Concave

Ecological site: Overflow (R067BY036CO)

Hydric soil rating: No

Pleasant, ponded

Percent of map unit: 1 percent

Landform: Closed depressions, playas

Down-slope shape: Concave

Across-slope shape: Concave

Ecological site: Closed Upland Depression (R067BY010CO)

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Washington County, Colorado

Survey Area Data: Version 20, Sep 10, 2018

Washington County, Colorado

57—Pleasant silty clay, 0 to 1 percent slopes, rarely ponded

Map Unit Setting

National map unit symbol: 2xstd

Elevation: 4,200 to 5,150 feet

Mean annual precipitation: 13 to 20 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 135 to 165 days

Farmland classification: Not prime farmland

Map Unit Composition

Pleasant, rarely ponded, and similar soils: 90 percent

Minor components: 10 percent

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

Description of Pleasant, Rarely Ponded

Setting

Landform: Playas on closed depressions

Down-slope shape: Concave

Across-slope shape: Concave

Parent material: Local alluvium

Typical profile

Ap - 0 to 3 inches: silty clay

Bt1 - 3 to 16 inches: silty clay

Bt2 - 16 to 38 inches: clay

Bt3 - 38 to 47 inches: clay

BC - 47 to 80 inches: silty clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Moderately well drained

Runoff class: Negligible

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: About 0 inches

Frequency of flooding: None

Frequency of ponding: Rare

Calcium carbonate, maximum in profile: 6 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)

Available water storage in profile: High (about 9.9 inches)

Interpretive groups

Land capability classification (irrigated): 6w

Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: C/D

Ecological site: Closed Upland Depression (R067BY010CO)
Hydric soil rating: No

Minor Components

Lodgepole, rarely ponded

Percent of map unit: 6 percent
Landform: Playas
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: Closed Upland Depression (R067BY010CO)
Hydric soil rating: Yes

Platner

Percent of map unit: 4 percent
Landform: Interfluves
Landform position (three-dimensional): Interfluve
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Loamy Plains (R067BY002CO)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Washington County, Colorado
Survey Area Data: Version 20, Sep 10, 2018