

Arapahoe County, Colorado

WrB—Weld-Deertrail silt loams, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 34zv

Elevation: 3,600 to 6,200 feet

Mean annual precipitation: 13 to 17 inches

Mean annual air temperature: 46 to 55 degrees F

Frost-free period: 100 to 170 days

Farmland classification: Not prime farmland

Map Unit Composition

Weld and similar soils: 60 percent

Deertrail and similar soils: 25 percent

Minor components: 15 percent

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

Description of Weld

Setting

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loam silty and clayey eolian deposits

Typical profile

H1 - 0 to 5 inches: silt loam

H2 - 5 to 14 inches: silty clay loam, silty clay, clay

H2 - 5 to 14 inches: silt loam, loam, silty clay loam

H2 - 5 to 14 inches: silt loam, loam, sandy loam

H3 - 14 to 26 inches:

H3 - 14 to 26 inches:

H3 - 14 to 26 inches:

H4 - 26 to 60 inches:

H4 - 26 to 60 inches:

H4 - 26 to 60 inches:

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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: 6 percent

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

Available water storage in profile: Very high (about 27.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3c

Hydrologic Soil Group: C

Ecological site: Loamy Plains (R067BY002CO)

Description of Deertrail

Setting

Landform: Depressions

Down-slope shape: Linear

Across-slope shape: Linear

Typical profile

H1 - 0 to 2 inches: silt loam

H2 - 2 to 9 inches: clay

H3 - 9 to 12 inches: silty clay

H4 - 12 to 32 inches: silty clay loam

H5 - 32 to 60 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: Low

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: 15 percent

Gypsum, maximum in profile: 2 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 35.0

Available water storage in profile: High (about 10.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: C

Ecological site: Alkaline Plains (R067BY047CO)

Minor Components

Heldt

Percent of map unit: 7 percent

Colby

Percent of map unit: 6 percent

Adena

Percent of map unit: 2 percent

Data Source Information

Soil Survey Area: Arapahoe County, Colorado

Survey Area Data: Version 10, Sep 23, 2014