

Arapahoe County, Colorado

WeB—Weld silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 34zs

Elevation: 3,600 to 5,700 feet

Mean annual precipitation: 13 to 17 inches

Mean annual air temperature: 46 to 55 degrees F

Frost-free period: 100 to 155 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Weld and similar soils: 90 percent

Minor components: 10 percent

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

Description of Weld

Setting

Landform: Depressions, hills

Landform position (two-dimensional): Footslope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: 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:

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H3 - 14 to 26 inches:

H4 - 26 to 60 inches:

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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)

Hydric soil rating: No

Minor Components

Colby

Percent of map unit: 4 percent

Hydric soil rating: No

Deertrail

Percent of map unit: 4 percent

Hydric soil rating: No

Adena

Percent of map unit: 2 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Arapahoe County, Colorado

Survey Area Data: Version 11, Sep 22, 2015