

Arapahoe County, Colorado

AdC—Adena-Colby silt loams, 1 to 5 percent slopes

Map Unit Setting

National map unit symbol: 34xn

Elevation: 4,700 to 6,200 feet

Mean annual precipitation: 12 to 16 inches

Mean annual air temperature: 46 to 55 degrees F

Frost-free period: 120 to 170 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Adena and similar soils: 65 percent

Colby and similar soils: 25 percent

Minor components: 10 percent

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

Description of Adena

Setting

Landform: Drainageways, hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits

Typical profile

H1 - 0 to 2 inches: silt loam

H2 - 2 to 19 inches: clay loam, silty clay loam

H2 - 2 to 19 inches: loam, silt loam, very fine sandy loam

H3 - 19 to 60 inches:

H3 - 19 to 60 inches:

H3 - 19 to 60 inches:

Properties and qualities

Slope: 1 to 5 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 high (0.20 to 0.60 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

Available water storage in profile: Very high (about 27.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: Loamy Plains (R067BY002CO)
Hydric soil rating: No

Description of Colby

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Fine-loamy eolian deposits and/or fine-silty eolian deposits

Typical profile

H1 - 0 to 4 inches: silt loam
H2 - 4 to 60 inches: silt loam, loam
H2 - 4 to 60 inches:

Properties and qualities

Slope: 1 to 5 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 high to high (0.57 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 20 percent
Available water storage in profile: Very high (about 19.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: B
Ecological site: Loamy Plains (R067BY002CO)
Hydric soil rating: No

Minor Components

Weld

Percent of map unit: 7 percent
Hydric soil rating: No

Loamy alluvial land

Percent of map unit: 3 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Arapahoe County, Colorado
Survey Area Data: Version 12, Sep 22, 2016