

Arapahoe County, Colorado

AcC—Adena-Colby fine sandy loams, 1 to 5 percent slopes

Map Unit Setting

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

Map Unit Composition

Adena and similar soils: 70 percent
Colby and similar soils: 20 percent
Minor components: 10 percent

Description of Adena

Setting

Landform: Playas, drainageways
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
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 content: 15 percent
Available water capacity: Very high (about 26.2 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
Land capability (nonirrigated): 6e
Hydrologic Soil Group: C
Ecological site: Loamy Plains (R067BY002CO)

Typical profile

0 to 4 inches: Fine sandy loam
4 to 21 inches: Clay loam, silty clay loam
21 to 60 inches: Loam, silt loam, very fine sandy loam

Description of Colby

Setting

Landform: Ridges, knolls, 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

Properties and qualities

Slope: 2 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 20 percent

Available water capacity: Very high (about 19.6 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

Land capability (nonirrigated): 3c

Hydrologic Soil Group: B

Ecological site: Loamy Plains (R067BY002CO)

Typical profile

0 to 4 inches: Fine sandy loam

4 to 60 inches: Silt loam, loam

Minor Components

Olney

Percent of map unit: 5 percent

Weld

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Arapahoe County, Colorado

Survey Area Data: Version 9, Dec 24, 2013