

## 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)*

## **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)*

## **Minor Components**

### **Weld**

*Percent of map unit: 7 percent*

### **Loamy alluvial land**

*Percent of map unit: 3 percent*

## **Data Source Information**

Soil Survey Area: Arapahoe County, Colorado

Survey Area Data: Version 9, Dec 24, 2013