

## Arapahoe County, Colorado

### FoC—Fondis-Colby silt loams, 3 to 5 percent slopes

#### Map Unit Setting

*National map unit symbol:* 34yl  
*Elevation:* 4,700 to 6,200 feet  
*Mean annual precipitation:* 12 to 16 inches  
*Mean annual air temperature:* 46 to 52 degrees F  
*Frost-free period:* 150 to 170 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Fondis 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 Fondis

##### Setting

*Landform:* Drainageways  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Silty and/or loamy

##### Typical profile

*H1 - 0 to 5 inches:* silt loam  
*H2 - 5 to 17 inches:* clay  
*H3 - 17 to 60 inches:* clay loam

##### Properties and qualities

*Slope:* 3 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 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  
*Available water storage in profile:* High (about 10.8 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 3c  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy foothill (R067XY202CO)

## Description of Colby

### Setting

*Landform:* Ridges

*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:* loam, silt loam

*H2 - 4 to 60 inches:*

### Properties and qualities

*Slope:* 3 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 foothill (R067XY202CO)

## Minor Components

### Weld

*Percent of map unit:* 6 percent

### Ft collins

*Percent of map unit:* 4 percent

## Data Source Information

Soil Survey Area: Arapahoe County, Colorado

Survey Area Data: Version 9, Dec 24, 2013