

## Weld County, Colorado, Southern Part

### 18—Colby-Adena loams, 3 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 361t

*Elevation:* 4,750 to 4,900 feet

*Mean annual precipitation:* 12 to 16 inches

*Mean annual air temperature:* 48 to 55 degrees F

*Frost-free period:* 120 to 160 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Colby and similar soils:* 55 percent

*Adena and similar soils:* 30 percent

*Minor components:* 15 percent

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

#### Description of Colby

##### Setting

*Landform:* Ridges, hills, plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous eolian deposits

##### Typical profile

*H1 - 0 to 7 inches:* loam

*H2 - 7 to 60 inches:* silt loam

##### Properties and qualities

*Slope:* 5 to 9 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Medium

*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:* 15 percent

*Available water storage in profile:* High (about 10.6 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* B

*Ecological site:* Loamy Slopes (R067BY008CO)

## Description of Adena

### Setting

*Landform:* Plains, ridges, hills

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous eolian deposits

### Typical profile

*H1 - 0 to 6 inches:* loam

*H2 - 6 to 9 inches:* clay loam

*H3 - 9 to 60 inches:* silt loam

### Properties and qualities

*Slope:* 3 to 7 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Medium

*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:* High (about 10.1 inches)

### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* C

*Ecological site:* Loamy Plains (R067BY002CO)

## Minor Components

### Kim

*Percent of map unit:* 5 percent

### Keith

*Percent of map unit:* 4 percent

### Weld

*Percent of map unit:* 3 percent

### Wiley

*Percent of map unit:* 3 percent

## Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 14, Sep 22, 2015