

## Weld County, Colorado, Southern Part

### 79—Weld loam, 1 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2x0hw

*Elevation:* 3,600 to 5,750 feet

*Mean annual precipitation:* 12 to 17 inches

*Mean annual air temperature:* 46 to 54 degrees F

*Frost-free period:* 115 to 155 days

*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Weld and similar soils:* 80 percent

*Minor components:* 20 percent

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

#### Description of Weld

##### Setting

*Landform:* Interfluves

*Landform position (two-dimensional):* Summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous loess

##### Typical profile

*Ap - 0 to 8 inches:* loam

*Bt1 - 8 to 12 inches:* clay

*Bt2 - 12 to 15 inches:* clay loam

*Btk - 15 to 28 inches:* loam

*Bk - 28 to 60 inches:* silt loam

*C - 60 to 80 inches:* silt loam

##### Properties and qualities

*Slope:* 1 to 3 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 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:* 14 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 5.0

*Available water storage in profile:* High (about 11.3 inches)

### **Interpretive groups**

*Land capability classification (irrigated): 2e*

*Land capability classification (nonirrigated): 3c*

*Hydrologic Soil Group: C*

*Ecological site: Loamy Plains (R067BY002CO)*

*Hydric soil rating: No*

### **Minor Components**

#### **Adena**

*Percent of map unit: 8 percent*

*Landform: Interfluves*

*Landform position (two-dimensional): Shoulder*

*Landform position (three-dimensional): Interfluve*

*Down-slope shape: Convex*

*Across-slope shape: Convex*

*Ecological site: Loamy Plains (R067BY002CO)*

*Hydric soil rating: No*

#### **Colby**

*Percent of map unit: 7 percent*

*Landform: Hillslopes*

*Landform position (two-dimensional): Backslope*

*Landform position (three-dimensional): Side slope*

*Down-slope shape: Convex*

*Across-slope shape: Convex*

*Ecological site: Loamy Plains (R067BY002CO)*

*Hydric soil rating: No*

#### **Keith**

*Percent of map unit: 3 percent*

*Landform: Interfluves*

*Landform position (two-dimensional): Summit*

*Landform position (three-dimensional): Interfluve*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Ecological site: Loamy Plains (R067BY002CO)*

*Hydric soil rating: No*

#### **Baca**

*Percent of map unit: 2 percent*

*Landform: Interfluves*

*Landform position (two-dimensional): Shoulder, summit*

*Landform position (three-dimensional): Interfluve*

*Down-slope shape: Linear, convex*

*Across-slope shape: Linear, convex*

*Ecological site: Loamy Plains (R067BY002CO)*

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 17, Sep 10, 2018

## Weld County, Colorado, Southern Part

### 83—Wiley-Colby complex, 3 to 5 percent slopes

#### Map Unit Setting

*National map unit symbol:* 3644

*Elevation:* 4,850 to 5,000 feet

*Mean annual precipitation:* 12 to 16 inches

*Mean annual air temperature:* 48 to 54 degrees F

*Frost-free period:* 135 to 170 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Wiley and similar soils:* 55 percent

*Colby and similar soils:* 30 percent

*Minor components:* 15 percent

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

#### Description of Wiley

##### Setting

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous eolian deposits

##### Typical profile

*H1 - 0 to 11 inches:* silt loam

*H2 - 11 to 60 inches:* silty clay loam

*H3 - 60 to 64 inches:* silty 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 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 in profile:* 15 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water storage in profile:* High (about 11.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* B

*Ecological site:* Loamy Plains (R067BY002CO)

*Hydric soil rating:* No

## Description of Colby

### Setting

*Landform:* 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:* 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:* 15 percent

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

### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* B

*Ecological site:* Loamy Plains (R067BY002CO)

*Hydric soil rating:* No

## Minor Components

### Heldt

*Percent of map unit:* 9 percent

*Hydric soil rating:* No

### Weld

*Percent of map unit:* 6 percent

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 17, Sep 10, 2018