

## Weld County, Colorado, Southern Part

### 42—Nunn clay loam, 1 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tlpl  
*Elevation:* 3,900 to 5,840 feet  
*Mean annual precipitation:* 13 to 17 inches  
*Mean annual air temperature:* 50 to 54 degrees F  
*Frost-free period:* 135 to 160 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Nunn and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Nunn

##### Setting

*Landform:* Terraces  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Pleistocene aged alluvium and/or eolian deposits

##### Typical profile

*Ap - 0 to 9 inches:* clay loam  
*Bt - 9 to 13 inches:* clay loam  
*Btk - 13 to 25 inches:* clay loam  
*Bk1 - 25 to 38 inches:* clay loam  
*Bk2 - 38 to 80 inches:* clay 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:* 7 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 0.5  
*Available water storage in profile:* High (about 9.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e

*Land capability classification (nonirrigated): 3e*  
*Hydrologic Soil Group: C*  
*Ecological site: Clayey Plains (R067BY042CO)*  
*Hydric soil rating: No*

### **Minor Components**

#### **Heldt**

*Percent of map unit: 10 percent*  
*Landform: Terraces*  
*Landform position (three-dimensional): Tread*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Ecological site: Clayey Plains (R067BY042CO)*  
*Hydric soil rating: No*

#### **Satanta**

*Percent of map unit: 5 percent*  
*Landform: Terraces*  
*Landform position (three-dimensional): Tread*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*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

### 82—Wiley-Colby complex, 1 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 3643  
*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:* Prime farmland if irrigated

#### Map Unit Composition

*Wiley and similar soils:* 60 percent  
*Colby and similar soils:* 30 percent  
*Minor components:* 10 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:* 1 to 3 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):* 2e  
*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:* 1 to 3 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:* 4 percent

*Hydric soil rating:* No

### **Weld**

*Percent of map unit:* 4 percent

*Hydric soil rating:* No

### **Keith**

*Percent of map unit:* 2 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 17, Sep 10, 2018