

## Weld County, Colorado, Southern Part

### 40—Nunn loam, 1 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tln2  
*Elevation:* 3,900 to 6,250 feet  
*Mean annual precipitation:* 13 to 16 inches  
*Mean annual air temperature:* 46 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 6 inches:* loam  
*Bt1 - 6 to 10 inches:* clay loam  
*Bt2 - 10 to 26 inches:* clay loam  
*Btk - 26 to 31 inches:* clay loam  
*Bk1 - 31 to 47 inches:* loam  
*Bk2 - 47 to 80 inches:* 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 (0.1 to 1.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 0.5  
*Available water storage in profile:* High (about 9.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated): 4e*  
*Hydrologic Soil Group: C*  
*Ecological site: Loamy Plains (R067BY002CO)*  
*Hydric soil rating: No*

### **Minor Components**

#### **Wages**

*Percent of map unit: 8 percent*  
*Landform: Alluvial fans, terraces*  
*Landform position (three-dimensional): Tread*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Ecological site: Loamy Plains (R067BY002CO)*  
*Hydric soil rating: No*

#### **Fort collins**

*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*

#### **Haverson, very rarely flooded**

*Percent of map unit: 2 percent*  
*Landform: Terraces, drainageways, alluvial fans*  
*Landform position (three-dimensional): Tread*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear, concave*  
*Ecological site: Overflow (R067BY036CO)*  
*Hydric soil rating: No*

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 16, Oct 10, 2017

## Weld County, Colorado, Southern Part

### 47—Olney fine sandy loam, 1 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 362v

*Elevation:* 4,600 to 5,200 feet

*Mean annual precipitation:* 11 to 15 inches

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

*Frost-free period:* 125 to 175 days

*Farmland classification:* Prime farmland if irrigated and the product of I  
(soil erodibility) x C (climate factor) does not exceed 60

#### Map Unit Composition

*Olney and similar soils:* 85 percent

*Minor components:* 15 percent

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

#### Description of Olney

##### Setting

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed deposit outwash

##### Typical profile

*H1 - 0 to 10 inches:* fine sandy loam

*H2 - 10 to 20 inches:* sandy clay loam

*H3 - 20 to 25 inches:* sandy clay loam

*H4 - 25 to 60 inches:* fine sandy 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

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

*Available water storage in profile:* Moderate (about 7.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 4c

*Hydrologic Soil Group:* B

*Ecological site:* Sandy Plains (R067BY024CO)

### **Minor Components**

#### **Zigweid**

*Percent of map unit:* 10 percent

#### **Vona**

*Percent of map unit:* 5 percent

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 13, Sep 23, 2014