

## Weld County, Colorado, Southern Part

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

#### Map Unit Setting

*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

#### Map Unit Composition

*Olney and similar soils:* 85 percent

*Minor components:* 15 percent

#### Description of Olney

##### Setting

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed deposit outwash

##### Properties and qualities

*Slope:* 1 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*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 content:* 15 percent

*Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Available water capacity:* Moderate (about 7.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability (nonirrigated):* 4c

*Ecological site:* Sandy Plains (R067BY024CO)

##### Typical profile

*0 to 10 inches:* Fine sandy loam

*10 to 20 inches:* Sandy clay loam

*20 to 25 inches:* Sandy clay loam

*25 to 60 inches:* Fine sandy loam

#### 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 11, Aug 27, 2009

## Weld County, Colorado, Southern Part

### 74—Vona loamy sand, 5 to 9 percent slopes

#### Map Unit Setting

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

*Mean annual precipitation:* 13 to 15 inches

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

*Frost-free period:* 130 to 160 days

#### Map Unit Composition

*Vona and similar soils:* 85 percent

*Minor components:* 15 percent

#### Description of Vona

##### Setting

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Eolian deposits

##### Properties and qualities

*Slope:* 5 to 9 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* High (1.98 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)

*Available water capacity:* Moderate (about 6.5 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e

*Land capability (nonirrigated):* 6e

*Ecological site:* Sandy Plains (R067BY024CO)

##### Typical profile

*0 to 6 inches:* Loamy sand

*6 to 28 inches:* Fine sandy loam

*28 to 60 inches:* Sandy loam

#### Minor Components

##### Valent

*Percent of map unit:* 10 percent

**Remmit**

*Percent of map unit: 5 percent*

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

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