

## Weld County, Colorado, Southern Part

### 44—Olney loamy sand, 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 (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

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

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

##### Interpretive groups

*Farmland classification:* Farmland of statewide importance

*Land capability classification (irrigated):* 3e

*Land capability (nonirrigated):* 4c

*Hydrologic Soil Group:* B

*Ecological site:* Sandy Plains (R067BY024CO)

##### Typical profile

*0 to 10 inches:* Loamy sand

*10 to 20 inches:* Sandy clay loam

*20 to 25 inches:* Sandy clay loam

*25 to 60 inches:* Fine sandy loam

#### Minor Components

##### Vona

*Percent of map unit:* 8 percent

**Zigweid**  
*Percent of map unit: 7 percent*

## Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 12, Jan 3, 2014

## Weld County, Colorado, Southern Part

### 72—Vona loamy sand, 0 to 3 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, terraces  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Alluvium and/or eolian deposits

##### Properties and qualities

*Slope:* 0 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):* 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

*Farmland classification:* Farmland of local importance  
*Land capability classification (irrigated):* 3e  
*Land capability (nonirrigated):* 4e  
*Hydrologic Soil Group:* B  
*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

##### Remmit

*Percent of map unit:* 10 percent

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*Percent of map unit: 5 percent*

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 12, Jan 3, 2014

## 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

*Farmland classification:* Not prime farmland  
*Land capability classification (irrigated):* 6e  
*Land capability (nonirrigated):* 6e  
*Hydrologic Soil Group:* B  
*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  
Survey Area Data: Version 12, Jan 3, 2014