

## Weld County, Colorado, Southern Part

### 44—Olney loamy sand, 1 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 362r

*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:* Farmland of statewide importance

#### 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:* loamy sand

*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  
(0.60 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:* Moderate (about 6.5 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 4c

*Hydrologic Soil Group:* B

*Ecological site:* Sandy Plains (R067BY024CO)

*Hydric soil rating:* No

#### Minor Components

##### Vona

*Percent of map unit:* 8 percent

*Hydric soil rating:* No

**Zigweid**

*Percent of map unit:* 7 percent

*Hydric soil rating:* No

**45—Olney loamy sand, 3 to 5 percent slopes**

**Map Unit Setting**

*National map unit symbol:* 362s

*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:* Farmland of statewide importance

**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:* loamy sand

*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:* 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:* Moderate (about 6.5 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 3e

## Custom Soil Resource Report

*Land capability classification (nonirrigated): 4c*  
*Hydrologic Soil Group: B*  
*Ecological site: Sandy Plains (R067BY024CO)*  
*Hydric soil rating: No*

### Minor Components

#### **Zigweid**

*Percent of map unit: 8 percent*  
*Hydric soil rating: No*

#### **Vona**

*Percent of map unit: 7 percent*  
*Hydric soil rating: No*

## 49—Osgood sand, 0 to 3 percent slopes

### Map Unit Setting

*National map unit symbol: 362x*  
*Elevation: 4,680 to 4,900 feet*  
*Mean annual precipitation: 13 to 15 inches*  
*Mean annual air temperature: 46 to 55 degrees F*  
*Frost-free period: 140 to 150 days*  
*Farmland classification: Farmland of statewide importance*

### Map Unit Composition

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

### Description of Osgood

#### **Setting**

*Landform: Plains*  
*Down-slope shape: Linear*  
*Across-slope shape: Linear*  
*Parent material: Eolian sands*

#### **Typical profile**

*H1 - 0 to 22 inches: sand*  
*H2 - 22 to 34 inches: sandy loam*  
*H3 - 34 to 60 inches: sand*

#### **Properties and qualities**

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: More than 80 inches*  
*Natural drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*

## Custom Soil Resource Report

*Frequency of ponding:* None

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

*Available water storage in profile:* Low (about 4.8 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 4e

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* A

*Ecological site:* Deep Sand (R067BY015CO)

*Hydric soil rating:* No

### **Minor Components**

#### **Valent**

*Percent of map unit:* 10 percent

*Hydric soil rating:* No

#### **Dailey**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No