

## Weld County, Colorado, Southern Part

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

#### Map Unit Setting

*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

#### Map Unit Composition

*Osgood and similar soils:* 85 percent  
*Minor components:* 15 percent

#### Description of Osgood

##### Setting

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

##### 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 (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Available water capacity:* Low (about 4.8 inches)

##### Interpretive groups

*Farmland classification:* Farmland of statewide importance  
*Land capability classification (irrigated):* 4e  
*Land capability (nonirrigated):* 6e  
*Hydrologic Soil Group:* C  
*Ecological site:* Deep Sand (R067BY015CO)

##### Typical profile

*0 to 22 inches:* Sand  
*22 to 34 inches:* Sandy loam  
*34 to 60 inches:* Sand

#### Minor Components

##### Valent

*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

### 70—Valent sand, 3 to 9 percent slopes

#### Map Unit Setting

*Elevation:* 4,650 to 5,100 feet  
*Mean annual precipitation:* 13 to 19 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 130 to 180 days

#### Map Unit Composition

*Valent and similar soils:* 95 percent  
*Minor components:* 5 percent

#### Description of Valent

##### Setting

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

##### Properties and qualities

*Slope:* 3 to 9 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Excessively drained  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water capacity:* Very low (about 2.6 inches)

##### Interpretive groups

*Farmland classification:* Not prime farmland  
*Land capability classification (irrigated):* 4e  
*Land capability (nonirrigated):* 6e  
*Hydrologic Soil Group:* A  
*Ecological site:* Deep Sand (R067BY015CO)

##### Typical profile

*0 to 8 inches:* Fine sand  
*8 to 60 inches:* Sand

### **Minor Components**

#### **Osgood**

*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