

## Map Unit Description

Weld County, Colorado, Southern Part

70 Valent sand, 3 to 9 percent slopes

### Setting

Elevation: 4650 to 5100 feet  
Mean annual precipitation: 13 to 19 inches  
Mean annual air temperature: 48 to 52 degrees F  
Frost-free period: 130 to 180 days

### 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  
Drainage class: Excessively drained  
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 0 percent  
Gypsum maximum: 0 percent  
Available water capacity: Very low (about 2.6 inches)

#### Interpretive Groups

Land capability classification (irrigated): 4e  
Land capability (non irrigated): 6e  
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

## Map Unit Description

Weld County, Colorado, Southern Part

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

#### Setting

Elevation: 4680 to 4900 feet  
Mean annual precipitation: 13 to 15 inches  
Mean annual air temperature: 46 to 55 degrees F  
Frost-free period: 140 to 150 days

#### 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  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 0 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 4.8 inches)

##### Interpretive Groups

Land capability classification (irrigated): 4e  
Land capability (non irrigated): 6e  
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

##### Dailey

Percent of map unit: 5 percent