

T<sub>3</sub>N - R<sub>6</sub>W - 6<sup>th</sup> P.M.  
 SECTION 25: NW<sub>1/4</sub> NE<sub>1/4</sub>  
 WELD COUNTY, CO

## Map Unit Description

Weld County, Colorado, Southern Part

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### Loup-Boel loamy sands, 0 to 3 percent slopes

#### Setting

Elevation: 4550 to 4750 feet  
 Mean annual precipitation: 11 to 15 inches  
 Mean annual air temperature: 46 to 52 degrees F  
 Frost-free period: 130 to 180 days

#### Composition

Loup and similar soils: 55 percent  
 Boel and similar soils: 35 percent  
 Minor components: 10 percent

#### Description of Loup

##### Setting

Landform: Swales, drainageways, streams  
 Down-slope shape: Linear  
 Across-slope shape: Linear  
 Parent material: Sandy alluvium

##### Properties and Qualities

Slope: 0 to 3 percent  
 Drainage class: Poorly drained  
 Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)  
 Depth to water table: About 0 to 18 inches  
 Frequency of flooding: None  
 Frequency of ponding: None  
 Calcium carbonate maximum: 5 percent  
 Gypsum maximum: 0 percent  
 Available water capacity: Low (about 5.2 inches)

##### Interpretive Groups

Land capability classification (irrigated): 4w  
 Land capability (non irrigated): 6w  
 Ecological site: Sandy Meadow (R067BY029CO)

##### Typical Profile

0 to 16 inches: loamy sand  
 16 to 40 inches: loamy sand  
 40 to 60 inches: sandy loam

#### Description of Boel

##### Setting

Landform: Drainageways, streams, swales  
 Down-slope shape: Linear  
 Across-slope shape: Linear  
 Parent material: Stratified sandy alluvium

##### Properties and Qualities

Slope: 0 to 3 percent  
 Drainage class: Somewhat poorly drained  
 Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)  
 Depth to water table: About 18 to 36 inches  
 Frequency of flooding: None  
 Frequency of ponding: None  
 Calcium carbonate maximum: 5 percent  
 Gypsum maximum: 0 percent  
 Available water capacity: Low (about 4.2 inches)

##### Interpretive Groups

Land capability classification (irrigated): 4w  
 Land capability (non irrigated): 6w  
 Ecological site: Sandy Meadow (R067BY029CO)

##### Typical Profile

## Map Unit Description

Weld County, Colorado, Southern Part

0 to 14 inches: loamy sand  
14 to 60 inches: loamy sand

### Minor Components

#### Osgood

Percent of map unit: 5 percent

#### Valent

Percent of map unit: 5 percent

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### 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