

Booth USX EE25-12D, 11D, 15D, 03D, 02D, Booth EE25-13D, 01D  
SWNW: SEC 25 T7N-R6SW

## Map Unit Description

Weld County, Colorado, Southern Part

### 52 Otero sandy loam, 3 to 5 percent slopes

#### Setting

Elevation: 4700 to 5250 feet  
Mean annual precipitation: 12 to 15 inches  
Mean annual air temperature: 48 to 52 degrees F  
Frost-free period: 130 to 180 days

#### Composition

Otero and similar soils: 85 percent  
Minor components: 15 percent

#### Description of Otero

##### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Eolian deposits and/or mixed outwash

##### Properties and Qualities

Slope: 3 to 5 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 5.95 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 7.7 inches)

##### Interpretive Groups

Land capability classification (irrigated): 3e  
Land capability (non irrigated): 4e  
Ecological site: Sandy Plains (R067BY024CO)

##### Typical Profile

0 to 12 inches: sandy loam  
12 to 60 inches: fine sandy loam

#### Minor Components

##### Kim

Percent of map unit: 12 percent

##### Vona

Percent of map unit: 3 percent

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## Map Unit Description

Weld County, Colorado, Southern Part

### 38 Nelson fine sandy loam, 3 to 9 percent slopes

#### Setting

Elevation: 4800 to 5050 feet  
Mean annual precipitation: 13 to 15 inches  
Mean annual air temperature: 48 to 57 degrees F  
Frost-free period: 145 to 190 days

#### Composition

Nelson and similar soils: 85 percent  
Minor components: 15 percent

#### Description of Nelson

##### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Residuum weathered from sandstone

##### Properties and Qualities

Slope: 3 to 9 percent  
Depth to restrictive feature: 20 to 40 inches to Paralithic bedrock  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or high (0.06 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 3.7 inches)

##### Interpretive Groups

Land capability classification (irrigated): 4e  
Land capability (non irrigated): 6e  
Ecological site: Sandy Plains (R067BY024CO)

##### Typical Profile

0 to 9 inches: fine sandy loam  
9 to 30 inches: fine sandy loam  
30 to 34 inches: weathered bedrock

#### Minor Components

##### Thedalund

Percent of map unit: 10 percent

##### Terry

Percent of map unit: 5 percent

## Map Unit Description

Weld County, Colorado, Southern Part

### 4 Aquolls and Aquepts, flooded

#### Setting

Elevation: 3600 to 4700 feet  
 Mean annual precipitation: 12 to 16 inches  
 Mean annual air temperature: 50 to 55 degrees F  
 Frost-free period: 100 to 165 days

#### Composition

Aquolls and similar soils: 55 percent  
 Aquepts, flooded, and similar soils: 25 percent  
 Minor components: 20 percent

#### Description of Aquolls

##### Setting

Landform: Drainageways, plains, depressions  
 Down-slope shape: Linear  
 Across-slope shape: Linear  
 Parent material: Recent alluvium

##### Properties and Qualities

Slope: 0 to 3 percent  
 Drainage class: Poorly drained  
 Capacity of the most limiting layer to transmit water (Ksat): Moderately low or high (0.06 to 6.00 in/hr)  
 Depth to water table: About 6 to 36 inches  
 Frequency of flooding: Frequent  
 Frequency of ponding: None  
 Calcium carbonate maximum: 10 percent  
 Gypsum maximum: 0 percent  
 Salinity maximum: Slightly saline or moderately saline (8.0 to 16.0 mmhos/cm)  
 Sodium adsorption ratio maximum: 5.0  
 Available water capacity: Low (about 4.7 inches)

##### Interpretive Groups

Land capability classification (irrigated): 6w  
 Land capability (non irrigated): 6w  
 Ecological site: Salt Meadow (R067BY035CO)

##### Typical Profile

0 to 8 inches: variable  
 8 to 60 inches: stratified sandy loam to clay

#### Description of Aquepts, flooded

##### Setting

Landform: Stream terraces  
 Down-slope shape: Linear  
 Across-slope shape: Linear  
 Parent material: Recent alluvium

##### Properties and Qualities

Slope: 0 to 3 percent  
 Drainage class: Poorly drained  
 Capacity of the most limiting layer to transmit water (Ksat): Moderately low or high (0.06 to 6.00 in/hr)  
 Depth to water table: About 6 to 36 inches  
 Frequency of flooding: Frequent  
 Frequency of ponding: None  
 Calcium carbonate maximum: 10 percent  
 Gypsum maximum: 0 percent  
 Salinity maximum: Slightly saline or moderately saline (8.0 to 16.0 mmhos/cm)  
 Sodium adsorption ratio maximum: 5.0  
 Available water capacity: Low (about 4.7 inches)

##### Interpretive Groups

Land capability classification (irrigated): 6w  
 Land capability (non irrigated): 6w

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## Map Unit Description

Weld County, Colorado, Southern Part

Ecological site: Wet Meadow (R067BY038CO)

### Typical Profile

0 to 8 inches: variable

8 to 60 inches: stratified sandy loam to clay

### Minor Components

#### Thedalund

Percent of map unit: 10 percent

#### Haverson

Percent of map unit: 10 percent