

## Map Unit Description

Weld County, Colorado, Southern Part

### 53 Otero sandy loam, 5 to 9 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: 5 to 9 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): 4e  
 Land capability (non irrigated): 6e  
 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: 10 percent

##### Cushman

Percent of map unit: 5 percent

## Map Unit Description

Weld County, Colorado, Southern Part

### 79 Weld loam, 1 to 3 percent slopes

#### Setting

Elevation: 4850 to 5000 feet  
Mean annual precipitation: 13 to 17 inches  
Mean annual air temperature: 46 to 55 degrees F  
Frost-free period: 100 to 155 days

#### Composition

Weld and similar soils: 80 percent  
Minor components: 20 percent

#### Description of Weld

##### Setting

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

##### Properties and Qualities

Slope: 1 to 3 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 6 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 10.2 inches)

##### Interpretive Groups

Land capability classification (irrigated): 2e  
Land capability (non irrigated): 3e  
Ecological site: Loamy Plains (R067BY002CO)

##### Typical Profile

0 to 8 inches: loam  
8 to 15 inches: clay  
15 to 60 inches: silt loam  
60 to 64 inches: silt loam

#### Minor Components

##### Keith

Percent of map unit: 7 percent

##### Wiley

Percent of map unit: 7 percent

##### Adena

Percent of map unit: 6 percent