

## Weld County, Colorado, Northern Part

### 47—Otero sandy loam, 3 to 9 percent slopes

#### Map Unit Setting

*Elevation:* 4,500 to 5,500 feet  
*Mean annual precipitation:* 12 to 15 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 130 to 180 days

#### Map Unit Composition

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

#### Description of Otero

##### Setting

*Landform:* Fans, plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy alluvium and/or colluvium

##### Properties and qualities

*Slope:* 3 to 9 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water*  
*(Ksat):* Moderately high to high (0.57 to 5.95 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 10 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 4.0 mmhos/  
cm)  
*Available water capacity:* Very high (about 14.8 inches)

##### Interpretive groups

*Land capability (nonirrigated):* 6e  
*Ecological site:* Sandy Plains (R067BY024CO)

##### Typical profile

*0 to 5 inches:* Sandy loam  
*5 to 60 inches:* Fine sandy loam, sandy loam

#### Minor Components

##### Stoneham

*Percent of map unit:* 7 percent

##### Kim

*Percent of map unit:* 3 percent

##### Bushman

*Percent of map unit:* 3 percent

**Mitchell**

*Percent of map unit: 2 percent*

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 8, Apr 30, 2009