

N36-16 PAD  
T5N-R67W-SEC 36: SE/4SE/4  
WELD COUNTY, CO

## Weld County, Colorado, Southern Part

### 53—Otero sandy loam, 5 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 3632  
*Elevation:* 4,700 to 5,250 feet  
*Mean annual precipitation:* 12 to 15 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 130 to 180 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Otero and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Otero

##### Setting

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

##### Typical profile

*H1 - 0 to 12 inches:* sandy loam  
*H2 - 12 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 5 to 9 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Low  
*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 in profile:* 10 percent  
*Salinity, maximum in profile:* Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)  
*Available water storage in profile:* Moderate (about 7.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* A  
*Ecological site:* Sandy Plains (R067BY024CO)

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### **Minor Components**

**Kim**

*Percent of map unit:* 10 percent

**Cushman**

*Percent of map unit:* 5 percent

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 14, Sep 22, 2015

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## Weld County, Colorado, Southern Part

### 61—Tassel fine sandy loam, 5 to 20 percent slopes

#### Map Unit Setting

*National map unit symbol:* 363c  
*Elevation:* 4,850 to 5,200 feet  
*Mean annual precipitation:* 12 to 19 inches  
*Mean annual air temperature:* 46 to 52 degrees F  
*Frost-free period:* 110 to 165 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Tassel and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Tassel

##### Setting

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

##### Typical profile

*H1 - 0 to 11 inches:* fine sandy loam  
*H2 - 11 to 15 inches:* very fine sandy loam  
*H3 - 15 to 20 inches:* weathered bedrock

##### Properties and qualities

*Slope:* 5 to 20 percent  
*Depth to restrictive feature:* 10 to 20 inches to paralithic bedrock  
*Natural drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 10 percent  
*Available water storage in profile:* Very low (about 2.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* D  
*Ecological site:* Sandstone Breaks (R067BY056CO)

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### **Minor Components**

#### **Otero**

*Percent of map unit:* 8 percent

#### **Terry**

*Percent of map unit:* 7 percent

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 14, Sep 22, 2015