

GRACIE LD 22-750  
22-9N-58W: SW/4 SE/4  
WELD COUNTY, COLORADO

Map Unit Description: Ascalon fine sandy loam, 0 to 6 percent slopes---Weld County, Colorado,  
Northern Part

## Weld County, Colorado, Northern Part

### 4—Ascalon fine sandy loam, 0 to 6 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35zs  
*Elevation:* 4,500 to 6,500 feet  
*Mean annual precipitation:* 13 to 17 inches  
*Mean annual air temperature:* 46 to 57 degrees F  
*Frost-free period:* 130 to 160 days  
*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

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

#### Description of Ascalon

##### Setting

*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy alluvium

##### Typical profile

*H1 - 0 to 8 inches:* fine sandy loam  
*H2 - 8 to 22 inches:* sandy clay loam  
*H3 - 22 to 60 inches:* sandy loam

##### Properties and qualities

*Slope:* 0 to 6 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 (0.60 to 2.00 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 (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* Moderate (about 6.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy plains (R067BY002CO)

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### Minor Components

**Olney**

*Percent of map unit: 8 percent*

**Otero**

*Percent of map unit: 7 percent*

## Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014

## Weld County, Colorado, Northern Part

### 46—Otero sandy loam, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 3600  
*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  
*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:* Alluvial fans, plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy alluvium

##### Typical profile

*H1 - 0 to 5 inches:* sandy loam  
*H2 - 5 to 60 inches:* sandy loam, fine sandy loam  
*H2 - 5 to 60 inches:*

##### Properties and qualities

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Very 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 very slightly saline (0.0 to 4.0 mmhos/cm)  
*Available water storage in profile:* Very high (about 14.8 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* A  
*Ecological site:* Sandy plains (R067BY024CO)

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Map Unit Description: Otero sandy loam, 0 to 3 percent slopes---Weld County, Colorado,  
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### Minor Components

**Stoneham**

*Percent of map unit: 5 percent*

**Bushman**

*Percent of map unit: 4 percent*

**Kim**

*Percent of map unit: 3 percent*

**Mitchell**

*Percent of map unit: 3 percent*

### Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014