

## Weld County, Colorado, Northern Part

Nugent L006-655 P.1  
T9N-R58W  
Section 05: SE NE

### 45—Olney fine sandy loam, 6 to 9 percent slopes

#### Map Unit Setting

Elevation: 3,500 to 5,800 feet  
Mean annual precipitation: 11 to 15 inches  
Mean annual air temperature: 46 to 54 degrees F  
Frost-free period: 125 to 175 days

Nugent L006-665, 660, 655,  
650, 645

#### Map Unit Composition

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

#### Description of Olney

##### Setting

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

##### Typical profile

H1 - 0 to 6 inches: neutral, fine sandy loam  
H2 - 6 to 18 inches: neutral, sandy clay loam  
H3 - 18 to 60 inches: moderately alkaline, sandy loam  
H4 - 60 to 64 inches: strongly alkaline, sandy loam

##### Properties and qualities

Slope: 6 to 9 percent  
Depth to restrictive feature: More than 80 inches  
Natural drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat):  
Moderately high to high (0.57 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: 15 percent  
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)  
Available water storage in profile: Moderate (about 8.1 inches)

##### Interpretive groups

Farmland classification: Not prime farmland  
Land capability classification (irrigated): None specified  
Land capability classification (nonirrigated): 6e  
Hydrologic Soil Group: B  
Ecological site: Loamy Plains (R067BY002CO)

#### Minor Components

##### Ascalon

Percent of map unit: 5 percent

**Stoneham**

*Percent of map unit: 5 percent*

**Vona**

*Percent of map unit: 5 percent*

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 9, Dec 23, 2013

## Weld County, Colorado, Northern Part

*Nugent L006-665 Pub  
T9N-R58W  
Section 05: SENE*

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

#### Map Unit Setting

*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

*Nugent L006-665, 660, 655,  
650, 645*

#### Map Unit Composition

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

#### 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:* neutral, fine sandy loam  
*H2 - 8 to 22 inches:* neutral, sandy clay loam  
*H3 - 22 to 60 inches:* strongly alkaline, sandy loam

##### Properties and qualities

*Slope:* 0 to 6 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*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

*Farmland classification:* Farmland of statewide importance  
*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Plains (R067BY002CO)

#### 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 9, Dec 23, 2013