

## Map Unit Description

Weld County, Colorado, Northern Part

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

#### Setting

Elevation: 3500 to 5800 feet  
Mean annual precipitation: 11 to 15 inches  
Mean annual air temperature: 46 to 54 degrees F  
Frost-free period: 125 to 175 days

#### 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

##### Properties and Qualities

Slope: 6 to 9 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 8.1 inches)

##### Interpretive Groups

Land capability (non irrigated): 6e  
Ecological site: Loamy Plains (R067BY002CO)

##### Typical Profile

0 to 6 inches: fine sandy loam  
6 to 18 inches: sandy clay loam  
18 to 60 inches: sandy loam  
60 to 64 inches: sandy loam

#### Minor Components

##### Stoneham

Percent of map unit: 5 percent

##### Vona

Percent of map unit: 5 percent

##### Ascalon

Percent of map unit: 5 percent

## Map Unit Description

Weld County, Colorado, Northern Part

### 54      **Platner loam, 0 to 3 percent slopes**

#### **Setting**

Elevation: 4500 to 5900 feet  
Mean annual precipitation: 17 to 19 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 140 to 165 days

#### **Composition**

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

#### **Description of Platner**

##### **Setting**

Landform: Stream terraces, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy alluvium

##### **Properties and Qualities**

Slope: 0 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: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 8.9 inches)

##### **Interpretive Groups**

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

##### **Typical Profile**

0 to 4 inches: loam  
4 to 24 inches: clay  
24 to 60 inches: sandy loam

#### **Minor Components**

##### **Ascalon**

Percent of map unit: 8 percent

##### **Manzanola**

Percent of map unit: 6 percent

##### **Nunn**

Percent of map unit: 6 percent