

# Map Unit Description

Weld County, Colorado, Northern Part

## 42 Olney loamy sand, 0 to 3 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: 90 percent  
Minor components: 10 percent

### Description of Olney

#### Setting

Landform: 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 high or high (0.60 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): 4c  
Ecological site: Sandy Plains (R067BY024CO)

#### Typical Profile

0 to 5 inches: loamy sand  
5 to 34 inches: sandy clay loam  
34 to 60 inches: sandy loam  
60 to 64 inches: sandy loam

### Minor Components

#### Ascalon

Percent of map unit: 5 percent

#### Stoneham

Percent of map unit: 5 percent