

Kern LO4-20D  
T3N, R66W, 6<sup>th</sup> PM  
Section 4: SW/4NW/4

## Map Unit Description

Weld County, Colorado, Southern Part

### 44 Olney loamy sand, 1 to 3 percent slopes

#### Setting

Elevation: 4600 to 5200 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: Mixed deposit outwash

##### Properties and Qualities

Slope: 1 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 6.5 inches)

##### Interpretive Groups

Land capability classification (irrigated): 3e  
Land capability (non irrigated): 4c  
Ecological site: Sandy Plains (R067BY024CO)

##### Typical Profile

0 to 10 inches: loamy sand  
10 to 20 inches: sandy clay loam  
20 to 25 inches: sandy clay loam  
25 to 60 inches: fine sandy loam

#### Minor Components

##### Vona

Percent of map unit: 8 percent

##### Zigweid

Percent of map unit: 7 percent