

# Map Unit Description

Cheyenne County, Colorado

## 32 Olney sandy loam, 1 to 6 percent slopes

### Setting

Elevation: 3500 to 4500 feet  
Mean annual precipitation: 13 to 15 inches  
Mean annual air temperature: 52 to 54 degrees F  
Frost-free period: 100 to 150 days

### Composition

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

### Description of Olney

#### Setting

Landform: Hills, alluvial fans  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Alluvium and/or eolian deposits

#### Properties and Qualities

Slope: 1 to 6 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 7.0 inches)

#### Interpretive Groups

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

#### Typical Profile

0 to 4 inches: sandy loam  
4 to 18 inches: sandy clay loam  
18 to 23 inches: sandy loam  
23 to 60 inches: sandy loam

### Minor Components

#### Vona

Percent of map unit: 5 percent

#### Manzanola

Percent of map unit: 5 percent

#### Otero

Percent of map unit: 5 percent

#### Stoneham

Percent of map unit: 5 percent