

Bck Heath AL 10-13D, 10-14D  
Sec 10: 7N 63W: Sw/4 Sw/4

## Map Unit Description

Weld County, Colorado, Northern Part

44 Olney fine sandy loam, 0 to 6 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: 0 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 8.1 inches)

#### Interpretive Groups

Land capability (non irrigated): 4c  
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: 9 percent

#### Ascalon

Percent of map unit: 6 percent

## Map Unit Description

Weld County, Colorado, Northern Part

72 Vona loamy sand, 3 to 9 percent slopes

### Setting

Elevation: 4000 to 5500 feet  
Mean annual precipitation: 13 to 15 inches  
Mean annual air temperature: 48 to 55 degrees F  
Frost-free period: 130 to 160 days

### Composition

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

### Description of Vona

#### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous sandy alluvium and/or eolian deposits

#### Properties and Qualities

Slope: 3 to 9 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 6.00 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 (non irrigated): 6e  
Ecological site: Deep Sand (R067BY015CO)

#### Typical Profile

0 to 2 inches: loamy sand  
2 to 20 inches: fine sandy loam, sandy loam  
20 to 60 inches: loamy sand

### Minor Components

#### Remmit

Percent of map unit: 8 percent

#### Valent

Percent of map unit: 5 percent

#### Olney

Percent of map unit: 2 percent

## Map Unit Description

Weld County, Colorado, Northern Part

36 Manzanola clay loam, 0 to 3 percent slopes

### Setting

Elevation: 4400 to 5600 feet  
Mean annual precipitation: 11 to 15 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 140 to 180 days

### Composition

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

### Description of Manzanola

#### Setting

Landform: Stream terraces, swales, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous clayey 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: 5 percent  
Gypsum maximum: 3 percent  
Sodium adsorption ratio maximum: 15.0  
Available water capacity: High (about 9.6 inches)

#### Interpretive Groups

Land capability (non irrigated): 4e  
Ecological site: Clayey Plains (R067BY042CO)

#### Typical Profile

0 to 3 inches: clay loam  
3 to 25 inches: clay  
25 to 48 inches: clay  
48 to 60 inches: clay loam

### Minor Components

#### Avar

Percent of map unit: 15 percent