

## 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

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SECTION 9: SENE  
WELD COUNTY, CO

## Map Unit Description

Weld County, Colorado, Northern Part

57 Renohill-Shingle complex, 3 to 9 percent slopes

### Setting

Elevation: 3600 to 6200 feet  
Mean annual precipitation: 10 to 16 inches  
Mean annual air temperature: 46 to 48 degrees F  
Frost-free period: 100 to 160 days

### Composition

Renohill and similar soils: 50 percent  
Shingle and similar soils: 35 percent  
Minor components: 15 percent

### Description of Renohill

#### Setting

Landform: Breaks, ridges, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous, clayey loamy residuum weathered from shale

#### Properties and Qualities

Slope: 3 to 9 percent  
Depth to restrictive feature: 20 to 40 inches to Paralithic bedrock  
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: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 5.0 inches)

#### Interpretive Groups

Land capability (non irrigated): 4e  
Ecological site: Loamy Plains (R067BY002CO)

#### Typical Profile

0 to 4 inches: fine sandy loam  
4 to 13 inches: clay  
13 to 29 inches: clay loam  
29 to 33 inches: unweathered bedrock

### Description of Shingle

#### Setting

Landform: Breaks, plains, ridges  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy residuum weathered from shale

#### Properties and Qualities

Slope: 3 to 9 percent  
Depth to restrictive feature: 10 to 20 inches to Paralithic bedrock  
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: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Very low (about 2.1 inches)

#### Interpretive Groups

Land capability classification (irrigated): 6s  
Land capability (non irrigated): 6s  
Ecological site: Shaly Plains (R067BY045CO)

#### Typical Profile

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Rohn state LD10-67-1HN  
Rohn state LD10-66HN  
Rohn state LD10-66-1HN  
Rohn state LD09-67HN  
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Rohn state LD09-66-1HN  

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T9N-R58W 6th pm  
Sec. 9: SENE  
Weld County, CO

## Map Unit Description

Weld County, Colorado, Northern Part

0 to 4 inches: clay loam  
4 to 11 inches: clay loam  
11 to 15 inches: unweathered bedrock

### Minor Components

#### Midway

Percent of map unit: 8 percent

#### Tassel

Percent of map unit: 7 percent

## Map Unit Description

Weld County, Colorado, Northern Part

Rohn State 2D16 - 674N  
67-14N  
664N  
66-14N

### 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

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

#### Composition

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#### 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