

## Map Unit Description

Weld County, Colorado, Northern Part

22 Cushman fine sandy loam, 6 to 9 percent slopes

### Setting

Elevation: 4500 to 5500 feet  
Mean annual precipitation: 12 to 15 inches  
Mean annual air temperature: 45 to 46 degrees F  
Frost-free period: 130 to 150 days

### Composition

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

### Description of Cushman

#### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy residuum weathered from sandstone and shale

#### Properties and Qualities

Slope: 6 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): 6e  
Ecological site: Loamy Plains (R067BY002CO)

#### Typical Profile

0 to 6 inches: fine sandy loam  
6 to 10 inches: fine sandy loam  
10 to 21 inches: clay loam  
21 to 29 inches: clay loam  
29 to 32 inches: weathered bedrock

### Minor Components

#### Renohill

Percent of map unit: 10 percent

#### Midway

Percent of map unit: 5 percent

#### Shingle

Percent of map unit: 5 percent

Rohn state LD03-65-1HN  
Rohn state LD03-64HN  
Rohn state LD03-64-1HN  
Rohn state LD03-63HN  
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Sec. 4: NESE  
Weld County, CO.

## Map Unit Description

Weld County, Colorado, Northern Part

32 Kim-Mitchell complex, 6 to 9 percent slopes

### Setting

Elevation: 3500 to 6500 feet  
Mean annual precipitation: 11 to 17 inches  
Mean annual air temperature: 46 to 54 degrees F  
Frost-free period: 120 to 160 days

### Composition

Kim and similar soils: 45 percent  
Mitchell and similar soils: 35 percent  
Minor components: 20 percent

### Description of Kim

#### Setting

Landform: Fans, alluvial fans, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy alluvium and/or colluvium

#### Properties and Qualities

Slope: 6 to 9 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 9.7 inches)

#### Interpretive Groups

Land capability classification (irrigated): 6e  
Land capability (non irrigated): 6e  
Ecological site: Loamy Plains (R067BY002CO)

#### Typical Profile

0 to 3 inches: loam  
3 to 7 inches: clay loam  
7 to 60 inches: loam

### Description of Mitchell

#### Setting

Landform: Alluvial fans, fans, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy alluvium

#### Properties and Qualities

Slope: 6 to 9 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 5.95 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 10.8 inches)

#### Interpretive Groups

Land capability classification (irrigated): 6e  
Land capability (non irrigated): 6e  
Ecological site: Siltstone Plains (R067BY009CO)

#### Typical Profile

0 to 7 inches: silt loam  
7 to 60 inches: silt loam

Rohn state LD03-65-1HN  
Rohn state LD03-64HN  
Rohn state LD03-64-1HN  
Rohn state LD03-63HN  
Rohn state LD04-65-1HN  
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Rohn state LD04-64-1HN  
Rohn state LD04-63HN

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## Map Unit Description

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### Minor Components

#### Keota

Percent of map unit: 7 percent

#### Thedalund

Percent of map unit: 7 percent

#### Haverson

Percent of map unit: 6 percent

## 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

Rohn state LD03-65-1HN  
Rohn state LD03-64HN  
Rohn state LD03-64-1HN  
Rohn state LD03-63HN  
Rohn state LD04-65-1HN  
Rohn state LD04-64HN  
Rohn state LD04-64-1HN  
Rohn state LD04-63HN

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## Map Unit Description

Weld County, Colorado, Northern Part

45 Olney fine sandy loam, 6 to 9 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: 6 to 9 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): 6e  
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: 5 percent

#### Vona

Percent of map unit: 5 percent

#### Ascalon

Percent of map unit: 5 percent

Rohn state LD03 - 65-1HN  
Rohn state LD03 - 64HN  
Rohn state LD03 - 64-1HN  
Rohn state LD03 - 63HN  
Rohn state LD04 - 65-1HN  
Rohn state LD04 - 64HN  
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