

## Map Unit Description

Weld County, Colorado, Northern Part

### 31 Kim-Mitchell complex, 0 to 6 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

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#### Composition

Kim and similar soils: 45 percent  
Mitchell and similar soils: 40 percent  
Minor components: 15 percent

#### Description of Kim

##### Setting

Landform: Alluvial fans, 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 (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): 4e  
Land capability (non irrigated): 4e  
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, 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 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): 4e  
Land capability (non irrigated): 4e  
Ecological site: Siltstone Plains (R067BY009CO)

##### Typical Profile

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

## Map Unit Description

Weld County, Colorado, Northern Part

### 27 Epping silt loam, 0 to 9 percent slopes

#### Setting

Elevation: 3600 to 5500 feet  
Mean annual precipitation: 12 to 17 inches  
Mean annual air temperature: 45 to 52 degrees F  
Frost-free period: 120 to 150 days

#### Composition

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

#### Description of Epping

##### Setting

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

##### Properties and Qualities

Slope: 0 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 2.9 inches)

##### Interpretive Groups

Land capability (non irrigated): 6s  
Ecological site: Shallow Siltstone (R067BY039CO)

##### Typical Profile

0 to 3 inches: silt loam  
3 to 17 inches: silt loam  
17 to 20 inches: weathered bedrock

#### Minor Components

##### Keota

Percent of map unit: 5 percent

##### Thedalund

Percent of map unit: 4 percent

##### Mitchell

Percent of map unit: 3 percent

##### Kim

Percent of map unit: 3 percent

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