

## Map Unit Description

Weld County, Colorado, Southern Part

### 31 Kim loam, 0 to 1 percent slopes

#### Setting

Elevation: 4900 to 5250 feet  
Mean annual precipitation: 13 to 17 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 125 to 150 days

#### Composition

Kim and similar soils: 90 percent  
Minor components: 10 percent

#### Description of Kim

##### Setting

Landform: Alluvial fans, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Mixed eolian deposits derived from sedimentary rock

##### Properties and Qualities

Slope: 0 to 1 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 9.0 inches)

##### Interpretive Groups

Land capability classification (irrigated): 3e  
Ecological site: Loamy Plains (R067BY002CO)

##### Typical Profile

0 to 12 inches: loam  
12 to 42 inches: loam  
42 to 60 inches: fine sandy loam

#### Minor Components

##### Otero

Percent of map unit: 10 percent

## Map Unit Description

Weld County, Colorado, Southern Part

### 17 Colby loam, 5 to 9 percent slopes

#### Setting

Elevation: 4850 to 5050 feet  
Mean annual precipitation: 12 to 16 inches  
Mean annual air temperature: 48 to 50 degrees F  
Frost-free period: 135 to 155 days

#### Composition

Colby and similar soils: 90 percent  
Minor components: 10 percent

#### Description of Colby

##### Setting

Landform: Ridges, hills  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous eolian deposits

##### Properties and Qualities

Slope: 5 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: High (about 10.6 inches)

##### Interpretive Groups

Land capability classification (irrigated): 6e  
Land capability (non irrigated): 6e  
Ecological site: Loamy Slopes (R067BY008CO)

##### Typical Profile

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

#### Minor Components

##### Wiley

Percent of map unit: 10 percent