

## Weld County, Colorado, Northern Part

### 31—Kim-Mitchell complex, 0 to 6 percent slopes

#### Map Unit Setting

*Elevation:* 3,500 to 6,500 feet  
*Mean annual precipitation:* 11 to 17 inches  
*Mean annual air temperature:* 46 to 54 degrees F  
*Frost-free period:* 120 to 160 days

#### Map Unit 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  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)  
*Available water capacity:* High (about 9.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability (nonirrigated):* 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  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.57 to 5.95 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Available water capacity:* High (about 10.8 inches)

### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability (nonirrigated):* 4e  
*Ecological site:* Siltstone Plains (R067BY009CO)

### Typical profile

*0 to 7 inches:* Silt loam  
*7 to 60 inches:* Silt loam

### Minor Components

#### Haverson

*Percent of map unit:* 5 percent

#### Thedalund

*Percent of map unit:* 5 percent

#### Keota

*Percent of map unit:* 5 percent

## Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 8, Apr 30, 2009

## Weld County, Colorado, Northern Part

### 57—Renohill-Shingle complex, 3 to 9 percent slopes

#### Map Unit Setting

*Elevation:* 3,600 to 6,200 feet  
*Mean annual precipitation:* 10 to 16 inches  
*Mean annual air temperature:* 46 to 48 degrees F  
*Frost-free period:* 100 to 160 days

#### Map Unit 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 to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Available water capacity:* Low (about 5.0 inches)

##### Interpretive groups

*Land capability (nonirrigated):* 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 to moderately high (0.06 to 0.20 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm)

*Available water capacity:* Very low (about 2.1 inches)

### Interpretive groups

*Land capability classification (irrigated):* 6s

*Land capability (nonirrigated):* 6s

*Ecological site:* Shaly Plains (R067BY045CO)

### Typical profile

*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

## Data Source Information

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