

## 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

##### Typical profile

*H1 - 0 to 3 inches:* moderately alkaline, loam

*H2 - 3 to 7 inches:* moderately alkaline, clay loam

*H3 - 7 to 60 inches:* moderately alkaline, loam

##### Properties and qualities

*Slope:* 0 to 6 percent

*Depth to restrictive feature:* More than 80 inches

*Natural 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 in profile:* 15 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)

*Available water storage in profile:* High (about 9.7 inches)

##### Interpretive groups

*Farmland classification:* Farmland of statewide importance

*Land capability classification (irrigated):* 4e

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* B

*Ecological site:* Loamy Plains (R067BY002CO)

#### Description of Mitchell

##### Setting

*Landform:* Alluvial fans, plains

*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy alluvium

**Typical profile**

*H1 - 0 to 7 inches:* moderately alkaline, silt loam  
*H2 - 7 to 60 inches:* moderately alkaline, silt loam

**Properties and qualities**

*Slope:* 0 to 6 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural 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 in profile:* 15 percent  
*Available water storage in profile:* High (about 10.8 inches)

**Interpretive groups**

*Farmland classification:* Farmland of statewide importance  
*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* B  
*Ecological site:* Siltstone Plains (R067BY009CO)

**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 9, Dec 23, 2013