

Gleason LC35-725  
T9N-R54W-SEC 26  
SESE

## 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

Gleason LC35-725  
T917-R59W-Sec.26  
SE1/4SE1/4

*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

Gleason LC35-725  
T9N - R69W - SEC 26  
SESE

## Weld County, Colorado, Northern Part

### 32—Kim-Mitchell complex, 6 to 9 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:* 35 percent  
*Minor components:* 20 percent

#### Description of Kim

##### Setting

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

##### 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:* 6 to 9 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:* Not prime farmland  
*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Plains (R067BY002CO)

#### Description of Mitchell

##### Setting

*Landform:* Alluvial fans, fans, plains



Gleason LC 35-725  
T9N-R59W-Sec26  
SE 1/4 SE 1/4

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: 6 to 9 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: Not prime farmland  
Land capability classification (irrigated): 6e  
Land capability classification (nonirrigated): 6e  
Hydrologic Soil Group: B  
Ecological site: Siltstone Plains (R067BY009CO)

#### Minor Components

##### Keota

Percent of map unit: 7 percent

##### Thedalund

Percent of map unit: 7 percent

##### Haverson

Percent of map unit: 6 percent

## Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 9, Dec 23, 2013

Gleason LC35-725  
T9N-R89W-SEC 26  
SESE

## Weld County, Colorado, Northern Part

### 60—Shingle clay loam, 0 to 9 percent slopes

#### Map Unit Setting

*Elevation:* 3,600 to 5,500 feet  
*Mean annual precipitation:* 10 to 13 inches  
*Mean annual air temperature:* 46 to 48 degrees F  
*Frost-free period:* 110 to 140 days

#### Map Unit Composition

*Shingle and similar soils:* 80 percent  
*Minor components:* 20 percent

#### Description of Shingle

##### Setting

*Landform:* Ridges, breaks, plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous, clayey loamy residuum weathered from shale

##### Typical profile

*H1 - 0 to 4 inches:* moderately alkaline, clay loam  
*H2 - 4 to 11 inches:* moderately alkaline, clay loam  
*H3 - 11 to 15 inches:* , unweathered bedrock

##### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 10 to 20 inches to paralithic bedrock  
*Natural 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 in profile:* 15 percent  
*Salinity, maximum in profile:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* Very low (about 2.1 inches)

##### Interpretive groups

*Farmland classification:* Not prime farmland  
*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* D  
*Ecological site:* Shaly Plains (R067BY045CO)

#### Minor Components

##### Renohill

*Percent of map unit:* 10 percent

**Keota**

*Percent of map unit: 5 percent*

**Thedalund**

*Percent of map unit: 5 percent*

Gleason LC35-725  
T9N-R59W-SEC. 26  
SE/4 SE/4

## Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 9, Dec 23, 2013