

## Weld County, Colorado, Northern Part

### 32—Kim-Mitchell complex, 6 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35zj

*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

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Kim and similar soils:* 45 percent

*Mitchell and similar soils:* 35 percent

*Minor components:* 20 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### 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:* loam

*H2 - 3 to 7 inches:* clay loam

*H3 - 7 to 60 inches:* loam

##### Properties and qualities

*Slope:* 6 to 9 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Medium

*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 slightly saline (0.0 to 4.0 mmhos/cm)

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

##### Interpretive groups

*Land capability classification (irrigated):* 6e

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* C

*Ecological site:* Loamy Plains (R067BY002CO)

## Description of Mitchell

### Setting

*Landform:* Fans, alluvial fans, plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous loamy alluvium

### Typical profile

*H1 - 0 to 7 inches:* silt loam

*H2 - 7 to 60 inches:* silt loam

### Properties and qualities

*Slope:* 6 to 9 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Low

*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

*Land capability classification (irrigated):* 6e

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* A

*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 10, Sep 23, 2014

## Weld County, Colorado, Northern Part

### 29—Haverson loam, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35zd

*Elevation:* 3,500 to 6,000 feet

*Mean annual precipitation:* 12 to 17 inches

*Mean annual air temperature:* 46 to 54 degrees F

*Frost-free period:* 125 to 180 days

*Farmland classification:* Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season

#### Map Unit Composition

*Haverson and similar soils:* 90 percent

*Minor components:* 10 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Haverson

##### Setting

*Landform:* Stream terraces, flood plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Stratified, calcareous loamy alluvium

##### Typical profile

*H1 - 0 to 12 inches:* loam

*H2 - 12 to 60 inches:* stratified sandy loam to loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.57 to 2.00 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

*Gypsum, maximum in profile:* 1 percent

*Salinity, maximum in profile:* Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)

*Available water storage in profile:* High (about 9.6 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4c

*Hydrologic Soil Group:* B

*Ecological site:* Overflow (R067BY036CO)

*Other vegetative classification:* OVERFLOW (067BY036CO)

**Minor Components**

**Nunn**

*Percent of map unit:* 6 percent

**Fluvaquentic haplustolls**

*Percent of map unit:* 4 percent

*Landform:* Terraces

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014