

## Weld County, Colorado, Northern Part

### 27—Epping silt loam, 0 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35zb  
*Elevation:* 3,600 to 5,500 feet  
*Mean annual precipitation:* 12 to 17 inches  
*Mean annual air temperature:* 45 to 52 degrees F  
*Frost-free period:* 120 to 150 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Epping and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Epping

##### Setting

*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy residuum weathered from siltstone

##### Typical profile

*H1 - 0 to 3 inches:* silt loam  
*H2 - 3 to 17 inches:* silt loam  
*H3 - 17 to 20 inches:* weathered 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  
*Runoff class:* Medium  
*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  
*Available water storage in profile:* Very low (about 2.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* D  
*Ecological site:* Shallow Siltstone (R067BY039CO)

### **Minor Components**

**Keota**

*Percent of map unit: 5 percent*

**Thedalund**

*Percent of map unit: 4 percent*

**Mitchell**

*Percent of map unit: 3 percent*

**Kim**

*Percent of map unit: 3 percent*

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014

LC11-16 PAD  
T9N - R59W- 6TH P.M.  
Section 11: SSE Weld  
County, CO

## Weld County, Colorado, Northern Part

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

#### Map Unit Setting

*National map unit symbol:* 35zh  
*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:* Farmland of statewide importance

#### Map Unit Composition

*Kim and similar soils:* 45 percent  
*Mitchell and similar soils:* 40 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### 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:* loam  
*H2 - 3 to 7 inches:* clay loam  
*H3 - 7 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 6 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 (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):* 4e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* C  
*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:* silt loam  
*H2 - 7 to 60 inches:* silt loam

### Properties and qualities

*Slope:* 0 to 6 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Very 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):* 4e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* A  
*Ecological site:* Siltstone Plains (R067BY009CO)

## Minor Components

### Keota

*Percent of map unit:* 5 percent

### Haverson

*Percent of map unit:* 5 percent

### Thedalund

*Percent of map unit:* 5 percent

## Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 10, Sep 23, 2014