

## Weld County, Colorado, Northern Part

### 36—Manzanola clay loam, 0 to 3 percent slopes

#### Map Unit Setting

*Elevation:* 4,400 to 5,600 feet

*Mean annual precipitation:* 11 to 15 inches

*Mean annual air temperature:* 46 to 52 degrees F

*Frost-free period:* 140 to 180 days

#### Map Unit Composition

*Manzanola and similar soils:* 85 percent

*Minor components:* 15 percent

#### Description of Manzanola

##### Setting

*Landform:* Swales, stream terraces, plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous clayey alluvium

##### Typical profile

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

*H2 - 3 to 25 inches:* moderately alkaline, clay

*H3 - 25 to 48 inches:* moderately alkaline, clay

*H4 - 48 to 60 inches:* strongly alkaline, clay loam

##### Properties and qualities

*Slope:* 0 to 3 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 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:* 5 percent

*Gypsum, maximum in profile:* 3 percent

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

*Sodium adsorption ratio, maximum in profile:* 15.0

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

##### Interpretive groups

*Farmland classification:* Farmland of statewide importance

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* C

*Ecological site:* Clayey Plains (R067BY042CO)

Faith LC34-785 Fnd  
T9N - R59W

Section 34: NW NW

Faith LC34-785, 780, 775, 770

Jessica LC27-785, 780, 775, 770

Christine LC27-765, 760, 755, 750

Ann LC34-765, 760, 755, 750

### **Minor Components**

#### **Avar**

*Percent of map unit:* 15 percent

### **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 9, Dec 23, 2013

## 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

Faith LC 34-785 Fad

T9N-R59W

Section 34: NW NW

Faith LC 34-785, 780, 775, 770

Jessie LC 27-785, 780, 775, 770

Christine LC 27-765, 760, 755, 750

Ann LC 34-765, 760, 755, 750

**Keota**

*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 9, Dec 23, 2013

## Weld County, Colorado, Northern Part

Faith LC34-785 Pa 1  
T9N - R59W  
Section 34: NWNW

### 33—Kim-Shingle complex, 6 to 30 percent slopes

#### Map Unit Setting

*Elevation:* 3,500 to 6,500 feet  
*Mean annual precipitation:* 10 to 17 inches  
*Mean annual air temperature:* 46 to 54 degrees F  
*Frost-free period:* 110 to 150 days

Faith LC34-785, 780, 775, 770  
Jessica LC27-785, 780, 775, 770  
Christine LC27-765, 760, 755, 750  
Ann LC34-765, 760, 755, 750

#### Map Unit Composition

*Kim and similar soils:* 60 percent  
*Shingle and similar soils:* 20 percent  
*Minor components:* 20 percent

#### Description of Kim

##### Setting

*Landform:* Alluvial fans, breaks, 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 20 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):* None specified  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Plains (R067BY002CO)

#### Description of Shingle

##### Setting

*Landform:* Alluvial fans, breaks, fans, plains

*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous 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:* 6 to 30 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**

##### **Keota**

*Percent of map unit:* 10 percent

##### **Cascajo**

*Percent of map unit:* 10 percent

## **Data Source Information**

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