

Douglas LC35-785 Rd  
T9N-R59W  
Section 26: SWSW

## Weld County, Colorado, Northern Part

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

Douglas LC35-785, 780, 775,  
770

Jo LC 26-785, 780, 775, 770

#### 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

Douglas LC35-785 Pad  
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Douglas LC35-785, 780,  
775, 770

JD LC26-785, 780,  
775, 770

## Weld County, Colorado, Northern Part

Douglas LC35-785 Rd  
T9N-R59W  
Section 26: SW SW

### 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

Douglas LC35-785, 780, 775,  
770

SD LC26-785, 780, 775, 770

#### 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)

**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

Douglas LC35-785 Pad  
T9N R59W

SEC: 26 SW/4 SW/4

Douglas LC35-785, 780, 775, 770

JD LC24-785, 780, 775, 770

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## Weld County, Colorado, Northern Part

Section 26 : SW SW

### 40—Nunn loam, 0 to 6 percent slopes

Douglas LC35-785, 780, 775, 770

JD LC26-785, 780, 775, 770

#### Map Unit Setting

*Elevation:* 4,500 to 6,700 feet  
*Mean annual precipitation:* 12 to 18 inches  
*Mean annual air temperature:* 46 to 54 degrees F  
*Frost-free period:* 115 to 180 days

#### Map Unit Composition

*Nunn and similar soils:* 85 percent  
*Minor components:* 15 percent

#### Description of Nunn

##### Setting

*Landform:* Stream terraces, plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy alluvium

##### Typical profile

*H1 - 0 to 7 inches:* neutral, loam  
*H2 - 7 to 23 inches:* neutral, clay loam  
*H3 - 23 to 60 inches:* strongly alkaline, clay loam  
*H4 - 60 to 64 inches:* moderately alkaline, sandy clay 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 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:* Moderate (about 9.0 inches)

##### Interpretive groups

*Farmland classification:* Prime farmland if irrigated  
*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 4c  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)

#### Minor Components

##### Manzanola

*Percent of map unit:* 8 percent

**Avar**  
Percent of map unit: 7 percent

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part  
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