

## Weld County, Colorado, Southern Part

### 38—Nelson fine sandy loam, 3 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 362j  
*Elevation:* 4,800 to 5,050 feet  
*Mean annual precipitation:* 13 to 15 inches  
*Mean annual air temperature:* 48 to 57 degrees F  
*Frost-free period:* 145 to 190 days  
*Farmland classification:* Farmland of local importance

#### Map Unit Composition

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

#### Description of Nelson

##### Setting

*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from sandstone

##### Typical profile

*H1 - 0 to 9 inches:* fine sandy loam  
*H2 - 9 to 30 inches:* fine sandy loam  
*H3 - 30 to 34 inches:* weathered bedrock

##### Properties and qualities

*Slope:* 3 to 9 percent  
*Depth to restrictive feature:* 20 to 40 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 high (0.06 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:* 10 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* Low (about 3.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* B  
*Ecological site:* Sandy Plains (R067BY024CO)  
*Hydric soil rating:* No

### **Minor Components**

#### **Thedalund**

*Percent of map unit:* 10 percent

*Hydric soil rating:* No

#### **Terry**

*Percent of map unit:* 5 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 17, Sep 10, 2018

## Weld County, Colorado, Southern Part

### 32—Kim loam, 1 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 362b  
*Elevation:* 4,900 to 5,250 feet  
*Mean annual precipitation:* 13 to 17 inches  
*Mean annual air temperature:* 46 to 52 degrees F  
*Frost-free period:* 125 to 150 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Kim and similar soils:* 90 percent  
*Minor components:* 10 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:* Mixed eolian deposits derived from sedimentary rock

##### Typical profile

*H1 - 0 to 12 inches:* loam  
*H2 - 12 to 40 inches:* loam  
*H3 - 40 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 1 to 3 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:* Moderate (about 9.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* A  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

### **Minor Components**

#### **Otero**

*Percent of map unit:* 10 percent

*Hydric soil rating:* No

### **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 17, Sep 10, 2018