

## Weld County, Colorado, Southern Part

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

#### Map Unit Setting

*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

#### Map Unit Composition

*Nelson and similar soils:* 85 percent

*Minor components:* 15 percent

#### 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

*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 (0.0 to 2.0 mmhos/cm)

*Available water storage in profile:* Low (about 3.7 inches)

##### Interpretive groups

*Farmland classification:* Farmland of local importance

*Land capability classification (irrigated):* 4e

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* C

*Ecological site:* Sandy Plains (R067BY024CO)

#### Minor Components

##### Thedalund

*Percent of map unit:* 10 percent

**Terry**

*Percent of map unit: 5 percent*

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 12, Jan 3, 2014