

## Elbert County, Colorado, Western Part

### 43—Weld loam, 0 to 4 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2x0hz  
*Elevation:* 4,550 to 6,900 feet  
*Mean annual precipitation:* 13 to 20 inches  
*Mean annual air temperature:* 45 to 52 degrees F  
*Frost-free period:* 115 to 155 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

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

#### Description of Weld

##### Setting

*Landform:* Interfluves  
*Landform position (two-dimensional):* Summit  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loess

##### Typical profile

*Ap - 0 to 8 inches:* loam  
*Bt1 - 8 to 12 inches:* clay  
*Bt2 - 12 to 15 inches:* clay loam  
*Btk - 15 to 28 inches:* loam  
*Bk - 28 to 60 inches:* silt loam  
*C - 60 to 80 inches:* silt loam

##### Properties and qualities

*Slope:* 0 to 4 percent  
*Depth to restrictive feature:* More than 80 inches  
*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:* 14 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 5.0  
*Available water storage in profile:* High (about 11.3 inches)

### **Interpretive groups**

*Land capability classification (irrigated): 3c*

*Land capability classification (nonirrigated): 3c*

*Hydrologic Soil Group: C*

*Ecological site: Loamy Plains (R067BY002CO)*

*Hydric soil rating: No*

### **Minor Components**

#### **Ascalon**

*Percent of map unit: 5 percent*

*Landform: Interfluves*

*Landform position (two-dimensional): Summit, shoulder*

*Landform position (three-dimensional): Interfluve*

*Down-slope shape: Linear*

*Across-slope shape: Linear*

*Ecological site: Loamy Plains (R067BY002CO)*

*Hydric soil rating: No*

#### **Wiley**

*Percent of map unit: 5 percent*

*Landform: Interfluves*

*Landform position (two-dimensional): Shoulder*

*Landform position (three-dimensional): Side slope*

*Down-slope shape: Convex*

*Across-slope shape: Convex*

*Ecological site: Loamy Plains (R067BY002CO)*

*Hydric soil rating: No*

#### **Baca**

*Percent of map unit: 5 percent*

*Landform: Interfluves*

*Landform position (two-dimensional): Summit, shoulder*

*Landform position (three-dimensional): Interfluve*

*Down-slope shape: Linear, convex*

*Across-slope shape: Linear, convex*

*Ecological site: Loamy Plains (R067BY002CO)*

*Hydric soil rating: No*

## **Data Source Information**

Soil Survey Area: Elbert County, Colorado, Western Part

Survey Area Data: Version 14, Sep 10, 2018