

## Washington County, Colorado

### 78—Weld silt loam, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2x0hx  
*Elevation:* 3,600 to 6,000 feet  
*Mean annual precipitation:* 12 to 18 inches  
*Mean annual air temperature:* 46 to 54 degrees F  
*Frost-free period:* 115 to 155 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Weld and similar soils:* 80 percent  
*Minor components:* 20 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 3 inches:* silt loam  
*Bt1 - 3 to 11 inches:* silty clay  
*Bt2 - 11 to 15 inches:* silty clay  
*Btk - 15 to 21 inches:* silty clay  
*Bk - 21 to 31 inches:* silt loam  
*C - 31 to 80 inches:* silt loam

##### Properties and qualities

*Slope:* 0 to 3 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 11.7 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 3c  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

### **Minor Components**

#### **Colby**

*Percent of map unit:* 7 percent  
*Landform:* Hillslopes  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

#### **Keith**

*Percent of map unit:* 5 percent  
*Landform:* Interfluves  
*Landform position (two-dimensional):* Summit  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

#### **Adena**

*Percent of map unit:* 5 percent  
*Landform:* Interfluves  
*Landform position (two-dimensional):* Summit  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

#### **Rago, rarely flooded**

*Percent of map unit:* 2 percent  
*Landform:* Drainageways  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Ecological site:* Overflow (R067BY036CO)  
*Hydric soil rating:* No

#### **Pleasant, ponded**

*Percent of map unit:* 1 percent  
*Landform:* Playas, closed depressions  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* Closed Upland Depression (R067BY010CO)

*Hydric soil rating:* Yes

## **Data Source Information**

Soil Survey Area: Washington County, Colorado

Survey Area Data: Version 19, Oct 10, 2017