

## 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