

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: Closed depressions, playas

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 21, Sep 13, 2019

Washington County, Colorado						
Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		<i>Lb/ac</i>	<i>Lb/ac</i>	<i>Lb/ac</i>		<i>Pct</i>

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Weld	Loamy Plains	1,800	1,300	600	Western wheatgrass	20
					Green needlegrass	10
					Sideoats grama	10
					Prairie junegrass	10
					Buffalograss	5
					Needleandthread	5
					Fourwing saltbush	—
					Winterfat	—
					Blue grama	—