

## Washington County, Colorado

### 78—Weld silt loam

#### Map Unit Setting

*National map unit symbol:* 35wx  
*Elevation:* 4,200 to 5,900 feet  
*Mean annual precipitation:* 12 to 17 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 135 to 155 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Weld and similar soils:* 90 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Weld

##### Setting

*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loess

##### Typical profile

*H1 - 0 to 5 inches:* silt loam  
*H2 - 5 to 15 inches:* silty clay  
*H3 - 15 to 19 inches:* silty clay loam  
*H4 - 19 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Low  
*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:* 15 percent  
*Available water storage in profile:* High (about 10.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)

### Minor Components

#### Platner

*Percent of map unit:* 4 percent

#### Rago

*Percent of map unit:* 3 percent

#### Colby

*Percent of map unit:* 3 percent

## Data Source Information

Soil Survey Area: Washington County, Colorado  
Survey Area Data: Version 16, Sep 26, 2014

## Washington County, Colorado

### 47—Norka-Colby loams, 3 to 5 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35vt  
*Elevation:* 3,800 to 5,500 feet  
*Mean annual precipitation:* 12 to 17 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 135 to 155 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Norka and similar soils:* 60 percent  
*Colby and similar soils:* 35 percent  
*Minor components:* 5 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Norka

##### Setting

*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous silty loess

##### Typical profile

*H1 - 0 to 4 inches:* loam  
*H2 - 4 to 13 inches:* silt loam  
*H3 - 13 to 60 inches:* silt loam

##### Properties and qualities

*Slope:* 3 to 5 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.20 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:* 15 percent  
*Available water storage in profile:* High (about 10.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 3c  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Plains (R067BY002CO)

## Description of Colby

### Setting

*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loess

### Typical profile

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 60 inches:* silt loam

### Properties and qualities

*Slope:* 3 to 5 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to high (0.57 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:* 15 percent  
*Available water storage in profile:* High (about 10.6 inches)

### Interpretive groups

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Plains (R067BY002CO)

## Minor Components

### Weld

*Percent of map unit:* 3 percent

### Ulysses

*Percent of map unit:* 2 percent

## Data Source Information

Soil Survey Area: Washington County, Colorado  
Survey Area Data: Version 16, Sep 26, 2014

## Washington County, Colorado

### 58—Rago silt loam

#### Map Unit Setting

*National map unit symbol:* 35w6  
*Elevation:* 3,500 to 5,400 feet  
*Mean annual precipitation:* 14 to 17 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 145 to 155 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

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

#### Description of Rago

##### Setting

*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Wind-worked silt over older soil

##### Typical profile

*H1 - 0 to 9 inches:* silt loam  
*H2 - 9 to 18 inches:* silty clay loam  
*H3 - 18 to 41 inches:* silty clay  
*H4 - 41 to 60 inches:* loam

##### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Low  
*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:* 15 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* High (about 10.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3s  
*Land capability classification (nonirrigated):* 3c  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)

### **Minor Components**

#### **Weld**

*Percent of map unit: 8 percent*

#### **Kuma**

*Percent of map unit: 7 percent*

### **Data Source Information**

Soil Survey Area: Washington County, Colorado  
Survey Area Data: Version 16, Sep 26, 2014